

AIR QUALITY, ODOUR AND SEPP 33 ASSESSMENT

PROPOSED MODIFICATIONS TO PRINTING PROJECT

INDEPENDENT PRINT MEDIA GROUP

WARWICK FARM, NSW

PROJECT NO.: 4747/11/A

DATE OF FINAL ISSUE: 15 FEBRUARY 2011

PW STEPHENSON

M BRECKO



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1 INTRODUCTION

1.1 BACKGROUND

Approval was granted in March 2009 by the Minister under part 3 A 75 J of the Environmental Planning and Assessment Act NSW for Independent Print Media (IPMG) group, to build and operate a Gravure printing facility at 2 to 8 Priddle St (23 Scrivener St) Warwick Farm.

Since this approval was granted, the scope of the project has for commercial reasons been changed to incorporate both Heatset Web Offset (HSWO) and Gravure printing processes onto the same site. Initially heatset printing will be exclusively on the site whilst market conditions remain the same. Consequently a modification to the original approval has been requested.

IPMG has commissioned SEMA to investigate the impact of the use of HSWO and the Hazardous materials will be assessed relative to SEPP 33 following an investigation of the requirements of the proposed plant using data supplied by IPMG from their existing plants. This report identifies and addresses three aspects of the proposed modification:-

- **Air Quality,** Proposed Emissions, Air quality assessment and Condition 16 of the part 3A consent.
- Hazardous Materials, Storage of HSWO inks and solvents
- Odour Emissions.

1.2 THE PROCESS

The HSWO method of printing applies a film of wet ink to the web of paper travelling through the printing units of speed of up to 15 metres per second (m/s). In order for the printing ink to be dried, heat has to be applied to the web, to dry off the ink carrier medium, once the oils are evaporated away the resin sets adhering the pigment to the paper. Hence the term Heat Set. There is one dryer for each web of paper printed.

1.3 THE DRYER

The dryer consists of a series of air bars located close to the surface of the paper. Hot air is blown through fine slots in each air bar onto the paper. The air temperature at the air bar is around 230 degrees Celsius (°C). The hot air heats the paper to around 150°C evaporating the ink oils. The evaporated ink oil inside the dryer resembles diesel fog, which is drawn into the enclosed upper and lower sections of the dryer by a series of process air control fans. The fog is then forced through a heat exchanger where it is heated to 500°C before passing through the combustion burner where the evaporated oils are incinerated directly with combustion gas in the afterburner chamber. The process is designed specifically to reduce the use of natural gas by

substituting ink oil as the combustion gas; that is, the more ink oil used the less natural gas is required. The exhaust gases from each press dryer are discharged to atmosphere via a flue which has an exit 3 meters above the roof line in accordance with AS 1668.2

Appendix A Figure A-1 presents a diagram of a typical HSWO dryer and associated integrated chemical emission control and heat recovery equipment.

The key design benefits are:

- Low gas energy consumption
- VOC oxidation an exothermic reaction
- VOC oxidation then forms much of the heat supply for the drying process
- Integrated heat exchanger design
- High performance nominal 65 percent (%), 75-80% in production
- Very high VOC destruction
- Low CO emissions
- Low NO_x production

2 AIR QUALITY – PROPOSED EMISSIONS

The following gases will be emitted from the Heat Set Web Offset (HSWO) with integrated Thermal Oxidiser:

- Nitrogen oxides (NOx)
- Carbon Monoxide (CO)
- Carbon Dioxide (CO₂)
- Volatile Organic Compounds (VOCs) negligible
- Oxygen (17-19% depending on afterburner configuration)

These HSWO emissions are similar to, but not the same as, the emission parameters associated with the Roto Gravure printing which include:-

- Sulphuric Acid mist/Sulphur Trioxide from the wet scrubber serving the metal printing cylinder preparation and engraving process
- Chromium from the above process
- VOC's (including toluene) (expressed as n-propane)
- NO_x, CO₂, CO and Oxygen from the steam generation process using natural gas fired boilers
- Total Solid Particles (TSP) from the fabric filter bag-house serving waste paper recovery

Table 2-1 summarises the proposed emissions from both the approved Roto Gravure press and the proposed Scenarios for HSWO Press stacks. There will be eight (8) stacks for Scenario 1 serving six HSWO Presses which have eight (8) Heatset dryers.

There would also be eight (8) stacks for Scenario 2 serving six (6) heatset dryers, one Rotogravure vapour recovery system and one boiler.

These proposed scenarios include either six HSWO presses or a combination of a Roto Gravure press and four HSWO presses. The emissions from these Scenarios will be a combination of the emission parameters referred to above.

The Table 2-1 also references the Project Emission Concentration Limits presented in Approval Condition 16 of Schedule 3: Specific Environmental Conditions of the NSW Department of Planning Project Approval for Application Number 08 0088.

		Condition 16 Approved Maximum Concentration Limit	Emission Concentration as measured at the stack	Emission Concentration as measured at the stack	Group 6 Emission Limits
Parameter	Units	Approved Option	Proposed Scenario 1	Proposed Scenario 2	All Scenarios
Nitrogen Oxides	mg/m ³	100	72 - 100	100	350
Carbon Monoxide	mg/m ³	NS	240 - 450	450	125 or VOC limit
Carbon Dioxide	%	NS	1.8 - 2.0	8 - 10	Not specified
Sulphur Dioxide	mg/m ³	NS	< 5	< 5	Not specified
VOC (as n- propane)	mg/m ³	35	0.09 - 0.19	35	40 (expressed as n- propane)
Oxygen	%	NS	17.4 - 17.9	18	Not specified
SulphuricAcid mist/Sulphur Trioxide	mg/m ³	60	NA	60	100
Chromium (a Type I & Type II Hazardous Substance under the Regulation)	mg/m ³	1	NA	1	1

TABLE 2-1 APPROVED CONDITION 16 EMISSION CONCENTRATIONS AND EMISSION CONCENTRATIONS FROM PROPOSED PLANT CONFIGURATION SCENARIOS

Key: mg/m³	= milligrams per cubic meter @ 0°C , 1 atmosphere
Scenario 1	 Proposed Scenario 1 will comprise 6 off HSWO of similar size to those measured @ IPMG - Offset Alpine Printing Press No. 7
Scenario 2	= Proposed Scenario 2 will comprise a combination of the Approved Option and Proposed Scenario 1; that is, 1 off Rotogravure and 4 off HSWO Presses
NS	= Not Specified – combustion is not part of control system for the Approved Option utilizing Roto-gravure process
VOC	= Volatile Organic Compounds

3 AIR QUALITY ASSESSMENT AND CONDITION 16

DECCW Reference Conditions for concentration based emission limits for gas fired combustion sources for Group 6 plant will be corrected to 3% Oxygen (O₂). This will mean that Group 6 NO_x actual emissions will need to be less than 70 milligrams per cubic metre (mg/m³) @ 17.4% stack O₂.

The proponents supplier of the HSWO dryers, will have integrated afterburners to destroy the VOC's and associated heat recovery to optimize energy consumption, has advised that the NO_x emissions from the HSWO stacks will be able to comply with DECCW requirements.

The proponents supplier has provided a plot of their NO_x emissions corrected to 3% Oxygen which is presented in Figure 3-1. The proponents supplier has confirmed to IPMG that their design for this system will have a compliant NO_x emission from the proposed HSWO dryers.

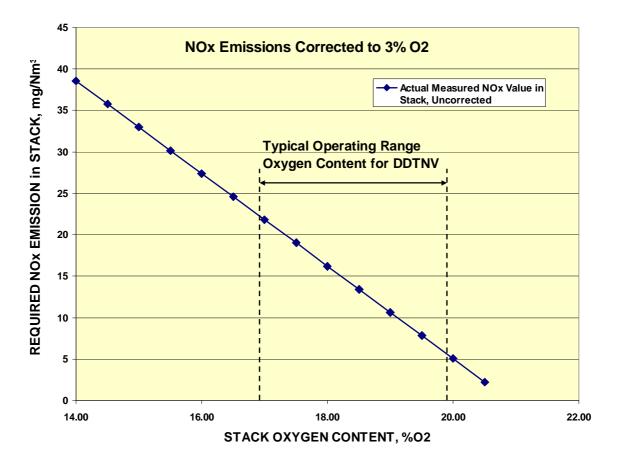


FIGURE 3-1 NO_x Emissions in Stack corrected to 3% O₂

VOCs (as n-propane) emission have a Group 6 limit of 40 milligrams per cubic metre (mg/m³) at 3% O_2 .

It is considered that the VOC emission from the HSWO presses after passing through the integrated thermal oxidiser will readily comply with this limit, as indicated in Table 2-1. Therefore meeting Approval Condition 16.

Overall, it is considered that the Roto Gravure plant is more efficient per tonne of paper printed but the tonnage will decrease with Scenario 1 and Scenario 2. Therefore, the overall mass emission impact will be less under the proposed modification.

4 HAZARDOUS MATERIALS ASSESSMENT AND SEPP 33

4.1 BACKGROUND AND APPROVAL

The storage volumes for each of the chemicals identified in Section 3 of the original Project Application and the associated SEPP 33 Screening Threshold Quantities are summarised in Table 4-1.

If any of the tests result in a screening threshold being exceeded the proposed development should be considered potentially hazardous and SEPP 33 will apply. In such cases, a preliminary hazard analysis (PHA) will be required to be submitted with the modified development application.

Material and Dangerous Goods Classification	Proposed Storage Quantity per month	Actual Proposed Distances to Boundary (m)	SEPP 33 Screening Threshold Quantities (Refer Appendix B of original report and Table 1 of SEPP 33)
Toluene Solvent (3PGII) and Inks and Varnishes (50% toluene)	145 cubic metres	25	> 22 metres to boundary
Sulphuric Acid (<1.84 kg/L) (8PGII)	2 cubic metres		25 (Class 8 PGII) cubic metres
Sulphuric Acid (2%) (8PGII)	7.1 cubic metres		25 cubic metres
Chromic Acid(500 gram/Litre) (8PGII or 8PGIII)	2 cubic metres		25 tonne or 25 cubic metres (Class 8PGII) or 50 tonne or 50cubic metres (Class 8PGIII))

TABLE 4-1 Storage Quantity and SEPP 33 Screening Threshold Quantities

Refer to Figure 4-1 of the original Project Application for site layout drawing showing location of the storage areas of the Dangerous Goods and the distances to the nearest boundary.

The following summarises the overall consequences of storage of the proposed materials presented in Table 4-1 above which is reproduced from Table 4-1 of the original Project Application:-

- All acid solutions do not trigger SEPP33 Screening Threshold Quantities
- Toluene and Bulk Ink storage of 145 cubic metres (m³) per month (cumulative total which is made up of 80m³ of recovered toluene and 40m³ of toluene solvent as ink carrier and 25m³ stored as varnish constituent) of Dangerous Goods Code Class 3PGII flammable liquid would require a minimum buffer distance to the nearest boundary of 22 metres (m).

The current design has the toluene and ink storage tanks located at 25m from the nearest boundary and hence does not trigger SEPP 33 Screening Threshold for Class 3 PG II Flammable Liquids. Figure 4-1 in the original Project Application presents the location of these storage tanks and the relevant distances to the boundary.

4.2 HAZARDOUS MATERIALS STORAGE

The HSWO ink storage tanks will be located 53m from the Eastern boundary. Housed in a suitably bunded area within the warehouse.

This storage area is a further 21 metres West from the eastern boundary than the proposed Roto Gravure toluene storage tanks would be located.

The heatset web offset ink is delivered by shipping container (each load approx 21 tonnes) the outlet on the container is connected via a stortz coupling and suction hose to a unloading pump located within the Eastern wall of the existing building. The proposed quantity of ink stored on the site will be contained in 4 tanks x 40 tonnes each. There will also be 4 x 25 tonne tanks for low tack inks.

Additional storage of this volume of HSWO inks on-site will not present a major increase in hazardous materials on-site. This is because of the high viscosity and lower volatility of the inks in this additional storage.

This modification requests the use of both HSWO and Gravure printing to be carried out on site. The initial proposal has provision for 6 HSWO presses.

In time, two of the existing HSWO presses will be decommissioned, prior the introduction of the first Roto Gravure press. This change will represent a 33% reduction in HSWO Ink storage, conversely 30% of the overall ink storage will have to revert to the originally approved Gravure ink and Toluene. Effectively the offset of these 2 processes will remain within the parameters of original part 3A approval.

Therefore, the proposed HSWO Scenario 1 and 2 modification will enable the plant to remain within the Part3A approval and SEPP 33 will not be triggered by the proposed modification.

UN No.	Proper Chemical Name	Class	PG	Product Name	Quantity Stored	SEPP 33 Screening Threshold	Minimum Distance to Boundary (m)
1268	Petroleum Distillates NOS	3	III	Blanket Wash	4000 Litres or 4 m ³ (In cubes)	50 m ³	7
1210	Offset printing inks	3	II or III	Offset printing inks	260 m ³ or (39 m ³ of Volatiles)	50 m ³	25 or (16)

TABLE 4-2 LIST OF CHEMICALS STORED AND HANDLED AT THE SITE

The HSWO ink has a high viscosity similar to grease. Mc Gee oil which accounts for 15% of the volume of the ink and is not prone to spillage or fugitive VOC emissions. This McGee oil is a vegetable oil with a flash point of 140°C. The nearest Australian Dangerous Goods Code for offset printing works is UN No.1210 which is used as a guideline in Table 4-2.

Any residual ink is returned to manufacturer for disposal or reconstitution.

Some kerosene (Shell X55) is generally used to wash down rollers. However, recent modifications to blanket washing procedures and chemicals are reducing the potential for VOC emissions. There are Material Safety Data Sheets (MSDS) available for all of these chemicals.

Other non hazardous chemicals stored on site include non flammable blanket wash (1000 litres), Fountain solution (2000 litres), Silicone emulsion (1000 litres) and varnish (less than 1000 litres). All MSDS are presented in Appendix B of this report.

5 ODOUR EMISSION ASSESSMENT

No additional odours will be generated from the HSWO Printing. The integrated Thermal Oxidiser fitted to each HSWO dryer is designed to destroy any odorous VOCs.

6 CONCLUSION

AIR QUALITY:

The use of the latest HSWO dryer technology will not increase any of the VOC, CO_2 or NO_x levels approved in the original part 3 Approvals. There is no requirement to vary Approval Condition 16 of Schedule 3: Specific Environmental Conditions of the NSW Department of Planning Project Approval for Application Number 08 0088.

HAZARDOUS MATERIALS:

The Modification of the plant and process will not trigger SEPP 33 because the volumes of HSWO inks with their high viscosity and higher flash points compared with the solvents used in Gravure which have much lower flash points. Therefore, there will not be any increase in the hazard risk on the site beyond the Part 3A Approval which has previously been granted.

The combination of HSWO and Gravure printing in combination will remain within the parameters of the original Part3A approval.

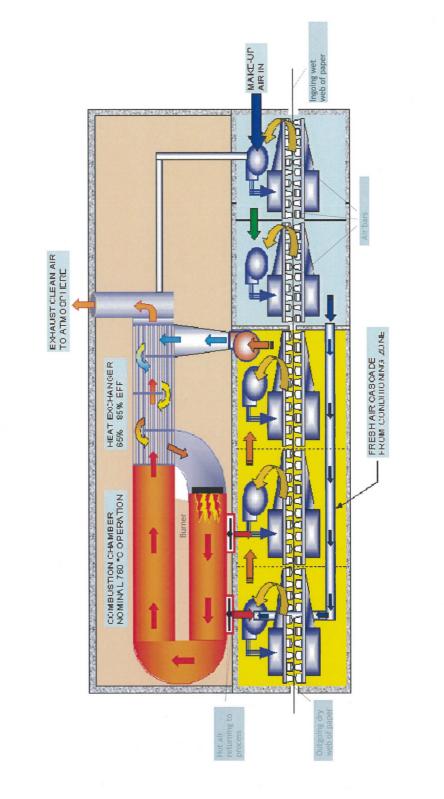
ODOUR:

No additional odours will be generated by the HSWO printing process.

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APPENDIX A – TYPICAL DIAGRAM OF THE HEAT SET WEB OFFSET DRYER

FIGURE A - 1 TYPICAL DIAGRAM OF THE HEAT SET WEB OFFSET DRYER



Typical diagram of the heat set web offset dryer.

1

APPENDIX B – MATERIAL SAFETY DATA SHEETS (MSDS)

Material Safety Data Sheet

FUJIFILM

Section 1: Identification of the Material and Supplier

Product Name	:Ecowash		Sectored tech Sectored Marcos			
Product Code	:011422	1422				
Other Name	4					
Area of Use	: Ecowash is a presses	wash is a blanket and roller wash, especially formulated for web offset heatset and coldset sees				
Usage Direction	s: Refer to	Product Information She	et			
Company Name ABN:		EMPORT (AUSTRALIA) F 335 048	PTYLTD			
Company Addre	Campbe	a Road elifield, 3061. : (03) 9357 0933 : (03) 9357 0944				
Emergency Nun		al Representative 0412 5	94 997			
Section 2.	Hazards	Identification				
Classified as ha	zardous acco ustralian Dang	rding to criteria of Work gerous Goods Code for		assified as Dangerous Goods by the id Rail		
Hazard Classifi						
Risk Statement	s: R65		lung damage if swallow	ed.		
Safety Stateme		Keep out of reach of				
	\$23	Do not inhale fumes/	2-31200			
	S24	Avoid contact with sk				
	S43	In case of fire use for				
	S62	If swallowed, do NOT this container or labe		medical advice immediately and show		
UN	Number: Not			oup: None allocated		
2.7.77	G Class: Nor	979 A 980 A 970 A 970	Polson Sche	NGA 이번 수 있는 것 같은 이 같은 이 가지 않는 것 같은 것 같은 것 같이 있다.		
5	Subrisk: Nor			Code: None allocated		
Section 3:	Composi	tion				
NA	ME		CAS NUMBER	PROPORTION		
Die	stillates (petroleu	m), hydrotreated light	64742-47-8	>60%		
Parts -	lvent naphtha (pr	etroleum),heavy arom.	64742-94-5	<10%		
		redients		Balance		
So	n-hazardous Ing					
So No	NA 23 33 23 40	Directions				
So No	First Aid Remove con	tact lenses if worn.				
So No Section 4:	First Aid Remove con Hold eyelids	tact lenses if worn. open and flush thorough!	y with water for at least	15 minutes.		
So No Section 4: Eye :	First Aid Remove con Hold eyelids Seek medica	tact lenses if worn. open and flush thorought il attention.		15 minutes.		
So No Section 4:	First Aid Remove con Hold eyelids Seek medica Remove and	tact lenses if worn. open and flush thorought il attention. wash contaminated cloth		15 minutes.		
So No Section 4: Eye :	First Aid Remove con Hold eyelids Seek medica Remove and Do NOT indu	tact lenses if worn, open and flush thorough) d attention, wash contaminated cloth uce vomiting,	ning before re-use.	15 minutes.		
So No Section 4: Eye : Skin :	First Aid Remove con Hold eyelids Seek medica Remove and Do NOT indu If irritation de	tact lenses if worn, open and flush thorough) d attention, wash contaminated cloth ice vomiting, evelops and persists, see	ning before re-use. k medical attention,	15 minutes.		
So No Section 4: Eye :	First Aid Remove con Hold eyelids Seek medica Remove and Do NOT indu If irritation de	tact lenses if worn, open and flush thorough) d attention, wash contaminated cloth uce vomiting,	ning before re-use. k medical attention,	15 minutes.		
So No Section 4: Eye : Skin :	First Aid Remove con Hold eyelids Seek medica Remove and Do NOT indu If irritation de	tact lenses if worn, open and flush thorough) d attention, wash contaminated cloth ice vomiting, evelops and persists, see	ning before re-use. k medical attention,	15 minutes.		
So No Section 4: Eye : Skin :	First Aid Remove con Hold eyelids Seek medica Remove and Do NOT indi If irritation de If affected by	tact lenses if worn, open and flush thorough) d attention, wash contaminated cloth ice vomiting, evelops and persists, see	ning before re-use. k medical attention,	15 minutes.		

Not required Gloves: Use chemical resistant g	gloves.
on: Use in a well ventilated area.	
its: TLV - 100 ppm	
: Exposure Controls/Personal Protection	
Prolonged or repeated contact may cause contact dermatitis.	
Use only in a well ventilated area and avoid breathing vapour and mist.	
A solvent resistant barrier cream is recommended when handling this product.	
Avoid frequent or long lasting contact with the skin and eyes.	
지 않았다. 그 김 씨가 있는 것 것 않는 것 같은 것 같이 있는 것 같이 많은 것 것 같은	
a All bandling equipment should be orgunded	
Do not handle or store near open flame, heat, sparks or strong oxidants.	
Keep containers closed when not in use.	
Store away from sources of heat and ignition.	
	3
Handling and Storage	
Do NOT absorb with saw-dust or other combustible absorbents.	
Clean up spill immediately. Spills on the floor may be slippery.	
Do NOT allow spilt material to enter drains, sewers or waterways.	
· 사람이 같은 것은	
김 사람이 많은 것은 것은 것은 것은 것은 것을 하는 것을 가지 않는 것을 수 있다. 이렇게 가지 않는 것을 가지 않는 것을 수 있다. 것을 가지 않는 것을 수 있다. 이렇게 있는 것을	
de: None allocated	
Firefighters should use self contained breathing apparatus if risk of exposure to p combustion.	iroducts of
ns: Eliminate all sources of ignition. Use water spray to cool tire exposed surfaces an personnel.	in to protect
	to protect
ng Foam, water spray (fog), dry chemical or carbon dioxide. lia:	
Fire Fighting Measures	
If aspirated into lungs, may cause chemical pneumonitis. Treat Symptomatically	
Vomiting should NOT be induced due to risk of solvent aspiration into lungs. Obtain medical attention immediately if ingested.	
Immediately rinse mouth with water.	
Seek medical attention.	
Remove contaminated clothing and loosen remaining clothing.	
방문감 것, 것 같아요. 방법 것 같아요. 것 것 같아요. 것 같아요. 걸 이 것 같아요. 그 것 것 같아요. 그 것 같아요. 그 것 같아요. 가 가 바람이 있다. 가 가 가 가 가 가 가 가 가 가 가 다 가 가 다 가 가 다 가 가 다 가 가 다 가 가 다 가 가 다 가 가 다 가 가 다 가 다 가 다 가 가 다 가 가 다 가 가 다 가 가 다 가 가 다 가 다 가 다 가 가 다 다 가 다 다 가 다 다 가 다 다 가 다 다 가 다 다 가 다 다 가 다 다 가 다 다 가 다 다 가 다 다 가 다 다 가 다 다 가 다 다 가 다 다 가 다 다 가 다 다 다 다 다 가 다	icial respiration,
If a support the support of the station in the station of the support of the support	istal manine line
	Seek medical attention. Immediately rinse mouth with water. Vomiting should NOT be induced due to risk of solvent aspiration into lungs. Obtain medical attention immediately if ingested. If aspirated into lungs, may cause chemical pneumonitis. Treat Symptomatically Fire Fighting Measures reg. Foam, water spray (fog), dry chemical or carbon dioxide. Is: Eliminate all sources of ignition. Use water spray to cool fire exposed surfaces and personnel. Firefighters should use self contained breathing apparatus if risk of exposure to p combustion. He: None allocated Accidental Release Measures In the event of a spill, evacuate spill/danger area. Stop leak if safe to do so. Remove all ignition sources. Wear protective equipment to prevent skin and eye contamination. Do NOT allow spill material to enter drains, sewers or waterways. Clean up spill immediately. Spills on the floor may be slippery. Do NOT allow spill mediately. Spills on the floor may be slippery. Do NOT absorb with saw-dust or other combustible absorbents. Handling and Storage Store in a cool, dry place away from direct sunlight and avoid exposure to moisture. Store away from sources of heat and ignition. Keep containers closed when not in use. Do not handle or store near open flame, heat, sparks or strong oxidants. A solvent resistant barrier cream is recommended when handling this product. Avoid frequent or long lasting contact with the skin and eyes. A solvent resistant barrier cream is recommended when handling this product. Use only in a well ventilated area and avoid breathing vapour and mist. Prolonged or repeated contact may cause contact dermatitis. Exposure Controls/Personal Protection is: TLV - 100 ppm in: Use in a well ventilated area.

	If needed, use protective apron to preven skin contact.	t Goggle	ss: Use chemical splash goggles or shield.
Section 9:	Physical and Chemical Pi	roperties	
Appearan	nce: Very pale yellow, clear liquid		
	2890 - 29 - 29 20 C	pecific Gravity:	
	tile: 96 % Min pH: Not applicable		Miscible with water
	int: 66 C	VOC:	Hydrocarbon type
Section 10): Stability and Reactivity	2	
Do not mix or violently. Mate		n burn only upon	가지가 가지 않는 것이 같아요. 이 것이 않는 것은 것이 같아요. 이 것이 같아요. 이 것이 같아요. 이 집에 있는 것이 같아요.
Section 11	1: Toxicological Information	on	
Eye:	This product will cause eye discomfort	but will not injure	e eye tissue.
Skin:	Prolonged or repeated contact with ski	n may irritate and	i cause contact dermatitis.
Inhaled:	If exposed to concentrations above rec May cause headaches and dizziness Only considered to be a moderate haz		is, may be irritating to the eyes and lungs.
Swallowed:	This product is moderately toxic. Small amounts of product aspirated int	o lungs following	ingestion may cause bronchopneumonia.
Chronic:	After prolonged and repeated exposure	e, this product ca	n cause dermatitis
Section 12	2: Ecological Information		
Mobility: 1	his product is partially soluble in water		
Persistence: E	expected to biodegrade at a moderate rate	e according to O	ECD guidefines
Ecotoxicity: N	to acute toxicity to aquatic organisms is e	xpected at the m	aximum water solubility of this material
Section 13	3: Disposal Consideration	s	
Disposal:			
Section 14	1: Transport Information		
DG	umber: None allocated Class: None allocated ubrisk: None allocated ng	Packing	Group: None allocated
	ncy Response Guide Number: 100		
			III DS4

Material Safety Data Sheet

FUJIFILM

Section 15: Regulatory Information

Hazard Classification: Xn Harmful

Risk Statements:	R65	Harmful: May cause lung damage if swallowed.
Safety Statements:	S02	Keep out of reach of children.
	S23	Do not inhale fumes/vapour
	S24	Avoid contact with skin.
	S43	In case of fire use foam/dry powder/CO2
	S62	If swallowed, do NOT induce vomiting; seek medical advice immediately and show this container or label.
Poison Schedule	S 5	

Section 16: Other Information

Date of preparation or last review: 02-Dec-05

Version: 1

This MSDS summarises at the date of preparation or last review our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since DS Chemport (Australia) Pty Ltd and its subsidiaries cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.

Product Name : Ecowash Date of preparation or last review: 02-Dec-05 INDSC Page 4 of 4

Safety Data Sheet

FUJIFILM

Section 1:	identif	ication of the Ma	terial and Suppl	ler	
Product Name	:Eurowas	장애이 제작되는 것이 같아요.			
Product Code : AM0556					
Other Name	ther Name :				
Area of Use :Eurowash T100 is a state of the art blanket wash, suitable for automatic washing of printing blank using Techniweb cleaning systems.					
Usage Directions:		fer to Product Information S	Sheet		
Company Name ABN:		CHEMPORT (AUSTRALIA 006 335 048	A) PTY LTD		
Company Addro	Ca	Jesica Road mpbelifield, 3061. one : (03) 9357 0933 X : (03) 9357 0944			
Emergency Nun	nber: Teo	chnical Representative 041	2 594 997		
Section 2:	Hazar	ds Identification			
		according to criteria of Wo Dangerous Goods Code fo		assified as Dangerous Goods by the d Rail	
Hazard Classifi	ation: X	n Harmful			
Risk Statement	s: R65	Harmful: May caus	se lung damage if swallow	ed.	
Safety Statemer	nts: S02	Keep out of reach	of children.		
09994099000000000000000000000000000000	S23	S23 Do not inhale fumes/vapour			
	S24	Avoid contact with	skin.		
	S62	If swallowed, do N this container or la		medical advice immediately and show	
UN	Number:	None allocated	Packing G	oup: None allocated	
t	G Class:	None allocated	Poison Sche	dule: S 5	
	Subrisk:	None allocated	Hazchem C	ode: None allocated	
Section 3:	Comp	osition			
NA	ME		CAS NUMBER	PROPORTION	
Dis	tillates (pet	roleum), hydrotreated light	64742-47-8	>60%	
No	n-hazardou	s Ingredients		Balance	
Section 4:	First A	id Directions			
Eye :	Remove	contact lenses if worn.		E	
0.000354	COMPLEX OF C	ilids open and flush thoroug	thly with water for at least	15 minutes,	
		edical attention.			
Skin :		and wash contaminated clo	othing before re-use.		
		induce vomiting.			
Takatata		in develops and persists, se			
Inhaled :	If overco	ed by vapour, remove to fres me by vapour, move victim th-to-mouth respiration.		g stopped, apply artificial respiration.	
Product Name	: Eurow	ash T100		III DSC	

Swallowed : Immed Do NC Seek r Doctor Treat Sy Advice : Section 5: Fire I Extinguishing Foa Media: Fire Precautions: Elim pers Fire Mazchem Code: Non Section 6: Accid Spills: In the Remo Wear Ensur Do NC Clean Do NC Clean Do NC Storage and Store in Transport: Store a Keep w Do not Do not Do not	e contaminated clothing and loosen remaining cloth hedical attention. iately rinse mouth with water. T induce vomiting. hedical attention. imptomatically Fighting Measures n, water spray (fog), dry chemical or carbon dioxide nate all sources of ignition. Use water spray to cool onnel. ighters should use self contained breathing apparatu oustion. e allocated Sental Release Measures event of a spill, evacuate spill/danger area. Stop leak we all ignition sources. protective equipment to prevent skin and eye contam a dequate ventilation to remove vapours, fumes, du of allow spilt material to enter drains, sewers or wate up spill immediately. Spills on the floor may be slipp of absorb with saw-dust or other combustible absort Hing and Storage a cool, dry place away from direct sunlight and avoi way from sources of heat and ignition.	fire exposed surfaces and to protect is if risk of exposure to products of c if safe to do so. nination. st, etc. inways. ary. ients.
Seek r Doctor Treat Sy Advice : Section 5: Fire I Extinguishing Foal Media: Fire Precautions: Elim pers Firef Hazchem Code: Non Section 6: Accid Spills: In the Remo Wear Ensur Do NC Clean Do NC Storage and Store in Transport: Store a Keep w Do not Do not Precaution: All han Safety	inedical attention: imptomatically Fighting Measures in, water spray (fog), dry chemical or carbon dioxide nate all sources of ignition. Use water spray to cool ponnel. ghters should use self contained breathing apparatu pustion. a allocated Iental Release Measures rotective equipment to prevent skin and eye contain a adequate ventilation to remove vapours, fumes, du I allow spilt material to enter drains, sewers or wate up spill immediately. Spills on the floor may be slipped T absorb with saw-dust or other combustible absorb Iling and Storage a cool, dry place away from direct sunlight and avoid	is if risk of exposure to products of k if safe to do so. hination. st, etc. hination. sry. hents.
Section 5: Fire I Extinguishing Media: Fire Precautions: Elim pers Fired Hazchem Code: Non Section 6: Accid Spills: In the Remo Wear Ensur Do NC Clean Do NC Section 7: Hanc Storage and Store in Transport: Store a Keep w Do not Do not Precaution: All han Safety	n, water spray (fog), dry chemical or carbon dioxide nate all sources of ignition. Use water spray to cool onnel. ghters should use self contained breathing apparatu- oustion. a allocated Iental Release Measures event of a spill, evacuate spill/danger area. Stop leak we all ignition sources. protective equipment to prevent skin and eye contain a adequate ventilation to remove vapours, fumes, du IT allow spilt material to enter drains, sewers or wate up spill immediately. Spills on the floor may be slipp of absorb with saw-dust or other combustible absorb Iling and Storage a cool, dry place away from direct sunlight and avoi	is if risk of exposure to products of k if safe to do so. hination. st, etc. hination. sry. hents.
Extinguishing Media: Fire Precautions: Elim pers Firef com Hazchem Code: Non Section 6: Accie Spills: In the Remo Wear Ensur Do NC Clean Do NC Section 7: Hanc Storage and Store in Transport: Store a Keep w Do not Do not	n, water spray (fog), dry chemical or carbon dioxide nate all sources of ignition. Use water spray to cool onnel. ghters should use self contained breathing apparatu- oustion. a allocated Iental Release Measures event of a spill, evacuate spill/danger area. Stop leak we all ignition sources. protective equipment to prevent skin and eye contain a adequate ventilation to remove vapours, fumes, du IT allow spilt material to enter drains, sewers or wate up spill immediately. Spills on the floor may be slipp of absorb with saw-dust or other combustible absorb Iling and Storage a cool, dry place away from direct sunlight and avoi	is if risk of exposure to products of k if safe to do so. hination. st, etc. hination. sry. hents.
Pers Firef com Hazchem Code: Non Section 6: Accia Spills: In the Remo Wear Ensur Do NC Clean Do NC Section 7: Hand Storage and Store in Transport: Store a Keep w Do not Do not Do not Do not Do not	onnel. ghters should use self contained breathing apparatu bustion. a allocated Iental Release Measures event of a spill, evacuate spill/danger area. Stop leal ve all ignition sources. protective equipment to prevent skin and eye contain a adequate ventilation to remove vapours, fumes, du of allow spilt material to enter drains, sewers or water up spill immediately. Spills on the floor may be slipped of absorb with saw-dust or other combustible absorb Iling and Storage a cool, dry place away from direct sunlight and avoid	is if risk of exposure to products of k if safe to do so. hination. st, etc. hination. sry. hents.
Section 6: Accid Spills: In the Remo Wear Ensur Do NC Clean Do NC Section 7: Hanc Storage and Store in Transport: Store a Keep w Do not Do not Precaution: All han Safety	Iental Release Measures event of a spill, evacuate spill/danger area. Stop leak we all ignition sources. protective equipment to prevent skin and eye contain a adequate ventilation to remove vapours, fumes, du IT allow spilt material to enter drains, sewers or wate up spill immediately. Spills on the floor may be slipp of absorb with saw-dust or other combustible absorb Illing and Storage a cool, dry place away from direct sunlight and avoit	nination. st, etc. irways. ery. ients.
Spills: In the Remo Wear Ensur Do NC Clean Do NC Section 7: Hanc Storage and Store in Transport: Store a Keep w Do not Do not Precaution: All han Safety	event of a spill, evacuate spill/danger area. Stop leak we all ignition sources. protective equipment to prevent skin and eye contant a adequate ventilation to remove vapours, fumes, du IT allow spilt material to enter drains, sewers or wate up spill immediately. Spills on the floor may be slipp of absorb with saw-dust or other combustible absorb Illing and Storage a cool, dry place away from direct sunlight and avoit	nination. st, etc. irways. ery. ients.
Remo Wear Ensur Do NC Clean Do NC Storage and Store in Transport: Store a Keep w Do not Do not Precaution: All han Safety	ve all ignition sources. protective equipment to prevent skin and eye contain a adequate ventilation to remove vapours, fumes, du IT allow spilt material to enter drains, sewers or wate up spill immediately. Spills on the floor may be slipped IT absorb with saw-dust or other combustible absorb Iling and Storage a cool, dry place away from direct sunlight and avoid	nination. st, etc. irways. ery. ients.
Storage and Store in Transport: Store a Keep w Do not Do not Precaution: All han Safety	a cool, dry place away from direct sunlight and avoi	d exposure to moisture.
Transport: Store a Keep w Do not Do not Precaution: All han Safety		d exposure to moisture.
Safety	ell sealed in a cool, dry well ventilated area. expose to extreme cold. handle or store near open fiame, heat, sparks or stro	ong oxidants.
A solve Proton	dling equipment should be grounded. goggles and gloves must be used when handling this requent or long lasting contact with the skin and eyes nt resistant barrier cream is recommended when ha ged or repeated contact may cause contact dermatiti by for its intended purpose and observe established p	s. ndling this product. s.
Section 8: Expo	sure Controls/Personal Protection	on
Exposure Limits: OEL	- 300ppm	
Ventilation: Use i	well ventilated area	

Respiration:	한 것은 것은 것은 것은 같은 것은 것을 것을 것을 하는 것을 가지 않는 것을 것을 것을 했다. 것을 것을 것을 것을 것을 것을 것을 수 있는 것을 것을 것을 것을 것을 했다. 것을 가지 않는 것을 가 있는 것을		es: Use chemical resistant gloves
Clothing:	If needed, use protective apron to prevent skin contact.	Goggle	es: Use chemical splash goggles or shield
Section 9	Physical and Chemical Pi	roperties	
-0.00 min 2007 2	nce: Pale yellow coloured liquid		
		pecific Gravity:	
70 VO5	atile: 90% Min. pH: Not Applicable	Odour:	Miscible with water Mild
Flash P	oint: 100 C	VOC:	
Section 1	0: Stability and Reactivity		
Material can Heating can	r store with strong oxidants or strong alkali form flammable mixtures and burn only up cause expansion or decomposition, leading hould use self contained breathing appara	on heating to or g to violent ruptu	above flash point.
Section 1	1: Toxicological Information	on	
Eye:	This product will cause eye discomfort	but will not injure	eye tissue.
Skin:	Prolonged or repeated contact with skin	n may irritate and	I cause contact dermatitis.
Inhaled:	If exposed to concentrations above rec	ommended level	s, may be irritating to the eyes and lungs.
Swallowed:	This product is moderately toxic. Small amounts of product aspirated into	o lungs following	ingestion may cause bronchopneumonia.
Chronic:	After prolonged and repeated exposure	, this product ca	n cause dermatitis
Section 1	2: Ecological Information		
Mobility:	This product is partially soluble in water		
Persistence:	Expected to biodegrade at a moderate rate	e according to Ol	ECD guidelines
Ecotoxicity:	May be toxic to aquatic organisms. Avoid o	contaminating wa	iterways
	3: Disposal Consideration	S	
Section 1	Collect spilled and leaking material in la		
Section 1 Disposal:	Residue should be disposed of at an ap	oproved disposal	500.
Disposal:	Residue should be disposed of at an ap 4: Transport Information	oproved disposal	ana.
Disposal: Section 1 UN N DG	4: Transport Information umber: None allocated Class: None allocated ubrisk: None allocated	du <u>di</u>	Group: None allocated

Safety Data Sheet

FUJIFILM

Initial Emergency Response Guide Number: 100

Section 15: R	egula	tory Information
Hazard Classificatio	n: Xn Ha	imful
Risk Statements:	R65	Harmful: May cause lung damage if swallowed.
Safety Statements:	S02	Keep out of reach of children.
	S23	Do not inhale fumes/vapour
	S24	Avoid contact with skin.
	S62	If swallowed, do NOT induce vomiting; seek medical advice immediately and show this container or label.
Poison Schedule	S 5	

Poison Schedule: S 5

Section 16: Other Information

Date of preparation or last review: 01-Nov-06

Version: 1

This MSDS summarises at the date of preparation or last review our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since DS Chemport (Australia) Pty Ltd and its subsidiaries cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.

Product Name : Eurowash T100 Date of preparation or last review: 01-Nov-06 Page 4 of 4

	according to cr		ine 2006 orksafe Australia
HEATSE	ET OVERF	RINT V	ARNISH
1. CHEMICAL PRODUCT	AND COMPA	NY IDENT	IFICATION
Toyo Ink Australia Ltd 29 Garden st KILSYTH 3137 Ph: +61 1300 558 696 Fax: +61 3 97; Emergency: 000	28 4099		
Product Name:			ISH, GLOSS O/P VARNISH, MAT O/P VARNISH
Synonyms:None Manufacturer's Product Code(s): Use:	1735, 3575, 32 Printing Ink Ov		
UN Number:	No UN number		
Proper Shipping Name: Dangerous Goods Class:	Not applicable None allocated		
Subsidiary risk:	Not applicable		
Packing Group: Hazchem Code:	N/a N/a		
Poison Schedule:	Not applicable		
2. COMPOSITION / INFOR	MATIONON	INCREDI	ENTS
SUBSTANCE NAME	MATION ON	Proportion	CAS Number
PHENOLIC MODIFIED RESIN		30-50%	28470-78-2
PETROLEUM RESIN		20-40%	Mixture
LINSEED OIL ALIPHATIC PETROLEUM DISTILLAT	ES.	10 - 30% 10 to 30%	67700-51-0 64742-88-7
WAX DISPERSION	60	1 to 10%	Mixture
3. HAZARD IDENTIFICATI	ON		
NOT HAZARDOUS ACCORDING TO	and the second se	F WORKSAFE	AUSTRALIA
HAZARD CATEGORY: Not Harmful			
ACUTE HEALTH EFFECTS			
Swallowed: May cause irritation if swallowed.			
Eye: May cause irritation to the eyes, with	effects including: te	aring, pain, sti	nging and blurred vision.
Skin:	Hanta la studiana D		
May cause irritation to the skin, with e	neers meruding; Hi	inness and itcl	m.P0a.8.
Inhaled: Mists from the product may cause irrit Cough, discomfort, difficulty breathing			ratory system with effects including
Chronic:		2.17	
Prolonged or repeated skin contact m Prolonged or repeated exposure or de function incapacity or death.			ling the vapour(s) may result in lung
4. FIRST AID MEASURES			

Material Safety Data Sheet

Issue date: June 2006 Page 2 of 4 Not Hazardous according to criteria of Worksafe Australia HEATSET OVERPRINT VARNISH

If swallowed, DO NOT induce vomiting. Give 3 to 4 glasses of water to drink. Seek medical assistance.

Eye:

If material is splashed into eyes, flush with plenty of water for at least 15 minutes, ensuring eye lids are held open. If irritation persists, seek medical attention

Skin:

If material is splashed onto the skin, remove any contaminated clothing and wash skin thoroughly with water and soap.

Inhaled:

Remove victim to fresh air.,

First Aid Facilities: Eye wash fountain, safety shower and normal washroom facilities.

Advice to Doctor:

Treat symptomatically. In case of poisoning, contact Poisons Information Centre In Australia call Tel: 131126 In New Zealand Tel: 034747000

5. FIRE-FIGHTING MEASURES

Fire/Explosion Hazard Not considered an explosion of fire hazard

Flammability Not flammable under conditions of use

6. ACCIDENTAL RELEASE MEASURES

EMERGENCY ACTION

Keep unnecessary people away. Isolate hazard area and deny entry. Stay upwind; Keep out of low areas. Do not walk or touch spilt material unless wearing personal protection as outlined under MSDS. SPILL OR LEAK PROCEDURE: No special procedures required. SMALL SPILLS: Take up with sand, dirt or vermiculite. Place into labeled drum(s) for later disposal. LARGE SPILLS:

Notify Emergency Services (P olice or Fire Brigade). Tell them exact location, nature, hazards, quantities, type of vehicle and any other information that would be helpful. Contain spill. Consult an expert regarding disposal of this product.

7. HANDLING AND STORAGE

Store in a cool place and out of direct sunlight. No other special requirements for storage or transport are necessary

8. EXPOSURE CONTROLS / PERSONAL PROTECTION Exposure Standards

No exposure standards are available for this product, however, the following exposure standards have been assigned by the National Occupational Health & Safety Commission (NOHSC) to the following components of the product:

PHENOLIC MODIFIED RESIN

No Exposure details available

Mate	rial Safety Data Sheet
Pa Not Hazar	ge 3 of 4 Issue date: June 2006 Jous according to criteria of Worksafe Australia TSET OVERPRINT VARNISH
PETROLEUM RESIN No Exposure details available	
LINSEED OIL No exposure standards have b (NOHSC)	een assigned by the National Occupational Health & Safety Commission
(NOHSC)	TILLATES een assigned by the National Occupational Health & Safety Commission
WAX	
No Exposure details available	
Engineering Controls	
No special requirements. Personal Protection Equipme	tre
CLOTHING: PVC, Nitrile, Neop recommended by the manufact	rene, Natural rubber or any other type of apron or splash suit as
GLOVES: PVC, Nitrile, Neopre	ne. Natural rubber or any other type of glove as recommended by the
manufacturer, EYES: Chemical goggles or fa	ceshield to protect eves.
	4: Normal room ventilation is sufficient
9. PHYSICAL AND CH	IEMICAL PROPERTIES
Appearance: Boiling Point Melting Point: Vapour Pressure: Specific Gravity: Flash Point: Flammability Limits: Solubility In Water:	Amber Coloured paste] [150 - 160 C] [Not applicable] [0.9- 1.1 @ 20 C] [> 100 C] [Not fiammable] [Insoluble]
Other Properties [None significant]	
10. STABILITY AND F	REACTIVITY
STABILITY: Stable under normal condition	r of me
HAZARDOUS DECOMPOSITI Emits choking and toxic fumes	when heated to decomposition.
HAZARDOUS POLYMERIZAT Will not occur.	ION:
INCOMPATIBILITIES: Strong acids, aikalis and oxidiz	ing agents
CONDITIONS TO AVOID:	and incompatibles.
Heat, flames, ignition sources	
11. TOXICOLOGICAL There is no toxicological inform	ation available for this product.

Material Safety Data Sheet

Page 4 of 4 Issue date: June 2006 Not Hazardous according to criteria of Worksafe Australia HEATSET OVERPRINT VARNISH

There are no reported ecological effects of this material

13. DISPOSAL CONSIDERATIONS

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to an approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. TRANSPORT INFORMATION

UN Number:	107
Proper Shipping Name:	
Dangerous Goods Class	82
Subsidiary risk:	
Packing Group:	
Hazchem Code:	

No UN Number allocated No special storage or shipping requirements Not applicable N/A N/A N/A

Not classified as hazardous according to the criteria of Worksafe Australia

15. REGULATORY INFORMATION

Poison Schedule: Not applicable

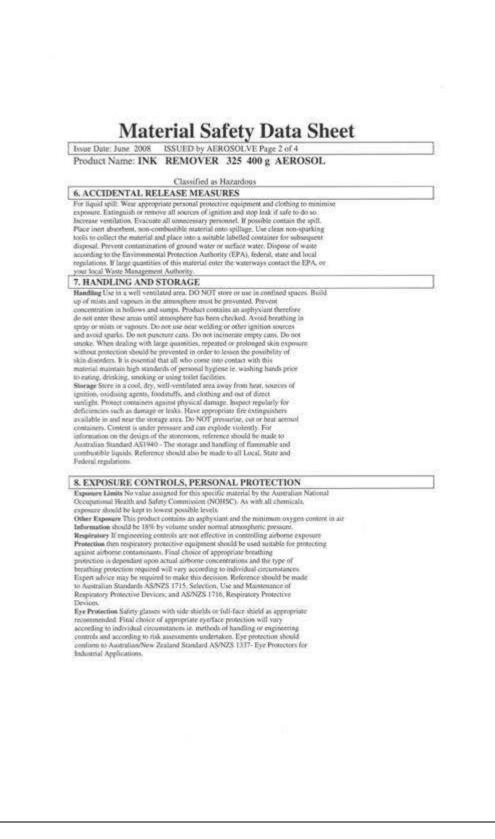
16. OTHER INFORMATION

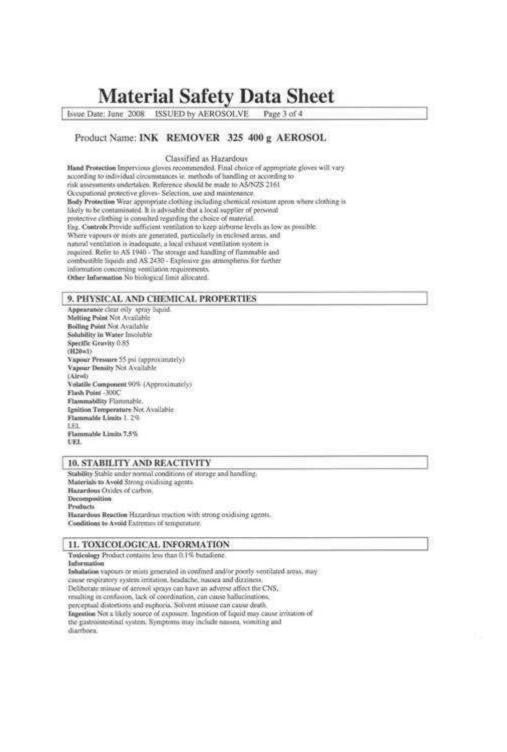
Contact Point TECHNICAL MANAGER / QUALITY CONTROL MANAGER Tel: +61 1300 558 696

Disclaimer

The information herein is to the best of our knowledge, correct and complete. It describes the safety requirements for this product and should not be construed as guaranteeing specific properties. Since methods and conditions are beyond our control we do not accept liability for any damages resulting from the use of, or reliance on, this information in inappropriate contexts.

Product Name: INK REMOVER 325 400 g AEROSOL Classified as Hazardous 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY Product Name DNK REMOVER 325 Product Cade 325 Propertical Product contains Alcohol , additives, and Hydrocathoms as Propellant. Camposition Propertical 47-63-0 Propertical 97-036	
Classified as Hazardous I.IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY Product Name BVK REMOVER 325 Product Cade 325 Product Cade 325 Product Lise Ink remover Company Name Aerosolvo (J & CE Musgrove Pty Lsd) (ABN 068 440 200) Address 2 Clare Street BAYSWATER V2C 3153 Telephone Tel: 03 9729 1488 Number/Fax Fax: 03 9720 7015 2.COMPOSITION/INFORMATION ON INGREDIENTS Information on Product contains Alcohol , additives, and Hydrocathems as Propellant. Companyion Ingredients Name CAS Propertion Process-Z=01 67-63-0 20-301	
I. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY Product Oxide SUS Product Code 325 Product Cide Sus Properties Product Cide Sus Product Product Cide Sus Product Product Cide Sus Product Produc	
Product Name ENK REMOVER 325 Product Code 325 Product Code 325 Product Code 325 Product Use Tak remover Company Name Aerosolvo (J & CE Musgrove Pry Lsd) (ABN 068 440 200) Address 2 Clare Street BAYSWATER VEC 3153 Telephone Tel: 03 9729 1488 Namber/Tax Fax: 03 9720 7015 2. COMPOSITION/INFORMATION ON INGREDIENTS Information on Product centains Alcohol, additives, and Hydrocathom as Propellam. Composition Ingredients Name CAS Propertion Property 2-01 67-63-0 20-301	
Product Use Ink remover Company Name Aerosolvo (J & CE Musgrove Pty Lsd) (ABN 068 440 200) Address 2 Clare Street BAYSWATER VRC 3153 Telephone Tel: 03 9729 7488 Number/Fax Fax: 03 9720 7015 2. COMPOSITION/INFORMATION ON INGREDIENTS Information on Product contains Alcohol , additives, and Hydrocarbons as Propellam. Composition Ingredients Name CAS Propertion Propertin Properime Propertion Properime Properime Propertion Properi	
Address 2 Clare Struct BAYSWATER VIC 3153 Telephone Tel: 03 9729 1488 Number/Fax Fax: 03 9720 7015 2. COMPOSITION/INFORMATION ON INGREDIENTS Information on Product centains Alcohol, additives, and Hydrocathoms as Propellam. Composition Ingredients Name CAS Propertion Propent/2-01 67-63-0 20-301	
Number/Fax Fax: 03 9720 7015 2. COMPOSITION/INFORMATION ON INGREDIENTS Information on Product contains Alcohol, additives, and Hydrocarbons as Propellam. Composition Ingredients Name CAS Propertion Propertion-2x=0 67x+52=0 20-3016	
Information on Product contains Alcohol, additives, and Hydrocarborn as Propertian. Composition CAS Propertion. Propertion-X=01 67+63=0 20-304	
Composition Ingredicts Name CAS Propertion Propent-Z=01 67+63=0 20-391	
Ingredients Name CAS Propertion Propen-2-o1 67-63-0 10-30%	
Acetona 67-04-3 10-308	
Ingredients not Determined to be hazardous. Not Required Balance	
3. HAZARDS IDENTIFICATION	
Classified as hazardous according to the criteria of NOHSC. Classified as a Daugersus Good According to the ADG Code	
Risk Phrases: R36 Irritating to eyes,	
Safety Parases: S23 Do not breathe gas/fumes/vapoer/spray S24/25 Avoid contact with skin	
and oyes. \$26 In case of contact with eyes, rinse immediately with pleaty of water and neek medical advice.	
\$36/37/39 wear suitable protective clothing, gloves and cycllace protection.	
4. FIRST AID MEASURES	
Inhalation Remove affected person from contaminated area and if irritation persists, seek medical advice. If not breathing apply artificial respiration and seek urgent	
medical advice. Segestion Do NOT induce vomiting, Wash out mouth with water. Seek medical attention.	
Skin Remove contaminated clothing and wash skin thoroughly with scop and water.	
Ensure contamineted clothing is washed before re-use or discard. If irritation develops, seek medical attention.	
Fige Flood eyes with plenty of water, holding eyelid(s) open. It initiation develops and persists, seek medical attention.	
First Aid Facilities Eye wash station, safety showers and normal washeoom facilities. Advice to Doctor Treat symptomatically.	
Other Information For advice may contact the Poisons Information Centre (Australia phone 13) 126) or a doctor at once.	
 FIRE FIGHTING MEASURES Extinguishing Media Use foam, carbon doxide or dry chemical to extinguish fire. Use water spray to keep cool aeronol container. 	
Specific Hazards Combustable Liquid. Container may explode when heated. Keep away from naked	
flames, spirks and other sources of sgnitton. Hazardous Combustion products include exides of carbon.	
flames, spacks and other sources of signifion. Hazardous Combustion products include oxides of carbon. Combustion Products Precautions in Fire fighters should wear full protective clothing and self creatained	
frames, sparks and other sources of spiniton. Hazardous Combustion products include oxides of carbon. Combustion Products	





Product Name: INK REMOVER 325 400 g ALROSOL Classified as Hazardous Skin May cause infution to kins Symptom may licidar tobases and achieres. Repeated or protonged data contact may lead to dematidis. May be limitating to eyes. By contact and high concentration of software suggest may chanse Symptoms including rodenses, escensive tearing, stinging and swelling. Chronek Efflects Protonged andler repeated skin contact with this product mill cause infration indic could leaded timing, possible leading to dematinis. 12. ECOLOGICAL INFORMATION Earlies, Protection Do not allow product to enter drains, waterways or selvers. Mobility Data not available for this specific product. Previsiteset Data not available for this specific product. 13. DISPOSAL CONSIDERATIONS Dispose of wate according to Environmental Protection Authority, federal, state and local replations. 14. TRANSPORT INFORMATION This material in classified on a Caus 2.1 Baugerose Good according to the Autorial Code for the specific product. 14. TRANSPORT INFORMATION This material in classified on a Caus 2.1 Baugerose Good according to the Autorial Code for the Transpecific dom. Caus 2.1 Baugerose Good according to the Autorial Code for the Transpecific dom. Caus 2.1 Baumable Gause shall not be loaded or packed in the sume vehicle or freight as -Class 3, Disposive: -Class 3, Disposive: -Class 4.2, Departmently Construction Statements -Class 4.3, Department With Web Splotances -Class 4.3, Department When Web Splotances -Class 5.2 Organic Prevations -Class 5.2	Issue Date: June 2008 ISSUED by AEROSOLVE Page 4 of 4	
Skie May cause inflation to kin. Symptome may include reduces and itchinest: Repeated or prolonged kin contact may lead to dematchis. Chemic Effects Prolonged adults contact may link oncentration of solvent vagour may cause symptoms including reduces, escensive teating, studying add swelling Chemic Effects Prolonged adults or prediated kin product will cause infration and could lead to drying and defatting, possibly leading to dematchis. 12. ECOLOGICAL INFORMATION Reviews, Protection Do not allow product to enter drains, waterways or servers. Mobility Data not available for this specific product. Persistence 1 Data not available for this specific product. Persistence 1 Data not available for this specific product. 13. DISPOSAL CONSIDERATIONS Disposed water according to Environmental Protection Authomy, federal, state and local replations. 14. TRANSPORT INFORMATION This material is classified as a Class 2.1 Daugenous Cloud According to the Australia Code for the Transper of Daugeroux Cloud. Class 2.1 Paramable Class 1. Specific Sector Class 2.1 Daugenous Cloud According to the Australia Code for the Transper of Daugeroux Cloud. Class 2.1 Paramable Class 1. Specific Sector Class 2.1 Sub Class 2.1 Sub Class 3 desgrees pools are in balk. - Class 1.2 Depression water Studies (Weight and Studies) - Class 3. Planmable Sciedd - Class 3.1 Damanber Ligash (It beth the Class 2.1 sub Class 3 desgrees pools are in balk. - Class 3.2 Organic Provides - Class 3.2 Organic Provides - Class 3.2 Damanber May Studies - Class 3.2 Da	Product Name: INK REMOVER 325 400 g AEROSOL	
Earlinn, Protection Do not allow product to enter drains, waterways or sewers. Mobility Data not available for this specific product. Persistence 1 Data not available for this specific product. Degradability Enzacoundation Data not available for this specific product. Ecotoxicity Data not available for this specific product. Ecoloxicity Data not available protein the specific product for firing for a not not available for this specific product. Ecoloxicity Data not available protein the specific product for firing for available for this specific product fore provides. Ecoloxicity Data not available protective clock	Sidn May cause irritation to skin. Symptome may include redness and itchiness. Repeated on prolonged skin contact may lead to dermatitis. May be limitating to eyes. Bye contact and high concentration of solvent vapour may cause symptomeni including redness, researcive tearing, stinging and swelling. Chronic Effects Prolonged and/or repeated skin contact with this product will cause infration	
Earlieron, Protection Do not allow product to enter drains, waterways or sewers. Mobility Data not available for this specific product. Persistence 1 Data not available for this specific product. Exertability Enzarcoundation Data not available for this specific product. Exertability Enzarcoundation Data not available for this specific product. Exertability Dispose of waste according to Environmental Protection Authority, federal, state and local regulations. 14. TRANSPORT INFORMATION This material to classified as a Class 2.1 Datagenous Good according to the Australian Consistence of the summary of Datagenous Good according to the Australian Consistence of the summary of Datagenous Good according to the Australian Consistence of the summary of Datagenous Good. Class 2.1 Flarmable Class 4.2, Bostware - Class 3, Flarmable Legislik (It both the class 2.1 and Class 3 datagenous good are in bulk). - Class 4.2, Bostware - Class 3, Plarmable Solds. - Class 4.2, Depretationally Conducting Soltmances - Class 4.3, Dargenous When West Soltmances - Class 5.2, Organic Provides - Class 5.2, Programatically Classified Winters - Class 5.2, Organic Provides - Class 5.3, Organic Provides - Class 5.4, Organic Provides - Class 5.4, Organic Provides - Class 5.4, Organic Provides - Class 5.4, Organic Prov	12 ECOLOGICAL INFORMATION	
Dispose of worke according to Environmental Protection Authority, federal, state and local regulations. 14. TRANSPORT INFORMATION This material is classified as a Class 2.1 Dasperous Good according to the Aminian Code for the Transport of Dasperous Good. Class 2.1 Planmable Class shall not be toded on packod to the sume vehicle or foreign as: - Class 1. Explosives - Class 3. Planmable Liquids (it both the Class 2.1 and Class 3 dasperous good are in bulk Class 4.2. Planmable Solds - Class 4.3. Planmable Solds - Class 4.3. Planmable Solds - Class 4.3. Planmable Solds - Class 5.4. Optimized to the Sold on Sold Sold Sold Sold Sold Sold Sold Sold	Environ, Protection Do not allow product to ester drains, waterways or sewers. Mobility Data not available for this specific product. Presistence 1 Data not available for this specific product: Degradability Bioaccumulation Data not available for this specific product.	
Dispose of worke according to Environmental Protection Authority, federal, state and local regulations. 14. TRANSPORT INFORMATION This material is classified as a Class 2.1 Dasperous Good according to the Aminian Code for the Transport of Dasperous Good. Class 2.1 Planmable Class shall not be toded on packod to the sume vehicle or foreign as: - Class 1. Explosives - Class 3. Planmable Liquids (it both the Class 2.1 and Class 3 dasperous good are in bulk Class 4.2. Planmable Solds - Class 4.3. Planmable Solds - Class 4.3. Planmable Solds - Class 4.3. Planmable Solds - Class 5.4. Optimized to the Sold on Sold Sold Sold Sold Sold Sold Sold Sold	13. DISPOSAL CONSIDERATIONS	
14. TRANSPORT INFORMATION This material is classified as a Class 2.1 Dangerous Good seconding to the Australian Code for the Transport of Dangerous Goods. Class 2.1 Plantmable Gases shall not be toaded or packed to the same vehicle or freight as: Class 1. Explosives Class 3.7 Plantmable Lipsable (b) both the Class 2.1 and Class 3 dangerous goods. Class 2.1 Plantmable Gases shall not be toaded or packed to the same vehicle or freight as: Class 4.2 Sponsore Class 4.2 Sponsore Class 4.2 Sponsores Class 4.3 Dangeron When Wet Softmances Class 4.3 Dangeron When Wet Softmances Class 5.1 Outdining Agenth Class 5.1 Outdining Agenth Class 5.2 Dongark Persides Class 5.2 Dongark Persides Class 5.1 Dougle classifier (Softbarrees) UN Namber 1950 Proper Shipping AEROSOLS Namer 1050 Process 2.1 Partmable Soft to sees. Safety PharaseSoft Pharase S25 Do not breating parfumes/copeut/parts/ Soft Strates, Good context with whom and eyes. Soft for some Context with eyes and by portection! Process Context with whom and eyes. Soft for some Context with whom and eyes. Soft for some Context with whom and eyes. Pharameter Soft for the soft some Context with whom and eyes. Pharameter Soft for the soft some context with whom and eyes. Soft for some Context with whom and eyes. Phisone Softwarks. Soft for some of context with whom and eyes. Phisone Softwarks.	Dispose of waste according to Environmental Protection Authority, federal, state and local	
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Amerialian Code See the Transport of Dangerous Goods. Class 2.1 Flammable Gauss shall not be toaded or packed in the same vehicle or foright as: - Class 1, Esphosives - Class 3, Plannmable Liquids (it both the Class 2.1 and Class 3 dangerous goods are in that), - Class 4.2, Spontaneously Combustible Substances - Class 4.3, Deaperson When Wet Substances - Class 5.1, Oxiohing Agents - Class 5.2, Oxiohing Agents - Class 7, Radioactive Substances - Class 5.2, Oxiohing Agents - Class 5.2, Oxioh		
Safety PhenosSafety PhenosSafety Phenos 523 Do not breathe gas/furnes/vapour/	- Class 3, Flammable Liquids (It both the Class 2.1 and Class 3 dangerous goods are in bulk). - Class 4.2, Spontaneously Combustible Solutiances - Class 4.2, Spontaneously Combustible Solutiances - Class 3.1, Oxidining Agents - Class 5.1, Oxidining Agents - Class 7.1, Radioactive Substances - Class 7.1, Radioactive Substances DN Number 1950 Proper Subpoing ARROSOLS Name DG Class 7.1 Packaging Method 5.5.2 EPG Number 201 ERG Number 49	
S24/25 Avoid contact with skin and eyes. 526 In case of contact with types, rinse inimediately with plotty of water and seek medical advise. 536/17/39. Wear subable protective clohing gloves, and eye/face protection. Poisons Schedule. S8 Haard Category. Irritant. 16. OTHER INFORMATION Contact Person/Point Mr. for Mugrove Control Person/Point Mr. for Mugrove Contro	Rick Phrase, R36 Irritating to eyes,	
Contact Person/Point Mr. Int Miagrove General Marager Teleptone. (03) 9729 1-488 Fast: (03) 9720 7015 SDS History MSDN Review. June 2008	S24/25 Avoid contact with skin and eyes. S26 In case of contact with eyes, mise introduzely with plenty of water and seek medical advise. S36/17/19. Wear soluble protective closhing gloves, and eportace protection. Poisons Schedule. S8	
General Manager Telephone (03) 9729 1-488 Fast: 003 9720 7015 S05 History MSDN Raview June 2008	16. OTHER INFORMATION	
	General Marager Telephone: (03) 9729 1-488 Flax: (03) 9720 7015 SDS History MSDS Reinterei. June 2008	

	H	ostma	anr	n-Steir	berg	huber
		MATERIA	AL SA	FETY DAT	A SHEET	
		H-12600, HGI-1270 M.2007	0, HGI-12	790		Revision No Page No. 1 (
1.	IDENTICATIO	N OF PRODUCT	AND COM	IPANY		
Produ	ct name ct Code ied use	tack.	ND Heats		I- 12700 & HGI-12790 RI	ND Heatset black med
	any details	: Hostmann-S 9 Christina F Villawood. N	teinberg . load,	Australia Ltd	Phone:	+ 61 2 9755 8000 + 61 2 9723 3833
2.	STATEMENT	OF HAZARDOUS	NATURE			
	Not classified	d as hazardous ac	cording t	o criteria of Worksaf	le Australia	
3.	UN NUMBER	DANGEROUS G	DODS CL	ASS, AND SUBSIDIA	RY RISK	
	UN Number Packing Grou Dangerous G Subsidiary R Hazchem Co Poisons Sch	ioods Class isk	None None None None None			
4,	COMPOSITIC	ON / INFORMATIO	N ON ING	REDIENTS		
	C.I. Pigment E Vehicle Additives Vegetable oil Ink oil	Black 7 (Cas no. 13	33-86-4)	14 - 18 % 51 - 55 % 04 - 06 % 21 - 25 %		
5.	FIRST AID M	EASURES				
	After inhalation as shallow brea After skin conta thoroughly. After eye conta	shing. ict – instantly remove ct – rinse opened eyr	ur if furnels any contan a for severa	or combustion by-produc ninated clothing and was	ts are inhaled; consult docts in affected areas with scap a water. Ensure complete irrig	ind water and rinse
6.	FIRE-FIGHTI	NG MEASURES				
	Suitable exting Foam Dry chemical p	guishing agents				

	Water spray or fog for large fire For safety reasons water jet in o Alert the Fire Brigade and give Wear breathing apparatus ply Monoxide (CO) and Nitrogen	unsuitable. them the locatic is protective g	loves as under ce	ertain fire o	onditions hazardour	s gases such as Carbo
7.	SPILLS AND DISPOSAL					
	Wear appropriate protective clo Slippery when spill Remove all ignition sources Prevent spillage from entering o Contain spill with sand, earth, o Collect recoverable into tabeled Absorb remaining product with Wash area and prevent runch if contamination of drains or wa	trains and wate r Vermiculite. I containers for sand, earth, or nto drains or wi	recycling. Vermiculite and pla ster ways.			daposal.
	Consult State Land Waste Auth Bury or incinerate at an approve		aL			
8.	HANDLING AND STORAG Avoid skin and eye contact. Smoking, eating, and drinking. Check all contrainers are clearly Avoid storage with oxidizers. Store away from ignition source Store in original containers, out	are prohibited in labeled, secur is or naked light	ely sealed and free	r from leaks		
_	Store in a cool, dry and well ver				0804	
9.	EXPOSURE CONTROLS / These products do not contain General protection and Involume The usual precautionary genera Hygione measure : Keep awa Wash hat Clean skir Protection of hands : Protection	PERSONAL any relevant mi relevant mi measures al measures to sy from hoodstut dis before brea t thoroughly alt e gloves and p	PROTECTION atenals with critical r handling chemica fits and betwerages, ks and after work, or work and apply	ils should be skin cream n.		d at the workplace.
9.	EXPOSURE CONTROLS / These products do not contain General protection and hycient The usual proceeding and hycient Hygione measure : Keep ave Wash has Clean sith Protection of hands : Protectiv Eve protection : Safety si Safety shoes should be worn a PHYSICAL AND CHEMIC/ Appearance : Form : Paste	PERSONAL any relevant mi measures al measures to measures al measu	PROTECTION aterials with critical r handling chemics fs and beverages. ks and ather work ar work and apply rotective skin creat ended cluring refill	ils should be skin cream n.		d at the workplace.
223	EXPOSURE CONTROLS / These products do not contain General protection and involver The usual precedition and involver Hygione measure : Keep awa Wash has Clean skip Protection of hands : Protection Eve protection : Safety of Safety shoes should be worn a PHYSICAL AND CHEMIC/ Appearance : Form : Paste Colour : Black. Change in condition Melting Point/Bolling Range Bolling Point/Bolling Range Flash Point Ignition temperature Set Inflammability Danger of Explosion Critical values for explosion	PERSONAL any relevant mi measures al measures to measures al measu	PROTECTION aterials with critical r handling chemics fits and beverages. As and ather work, or work and apply rotective skin crear ended during refills IES Value/Rangu Not determine > 220 °C > 100 °C > 220 °C Product is no Product is no	els should be skin cream n. ng Unit unit ed	e adhered to,	d at the workplace.
223	EXPOSURE CONTROLS / These products do not contain General protection and involver The usual precedition and involver Hygione measure : Keep awa Wash has Clean skip Protection of hands : Protection Eve protection : Safety of Safety shoes should be worn a PHYSICAL AND CHEMIC/ Appearance : Form : Paste Colour : Black. Change in condition Melting Point/Bolling Range Bolling Point/Bolling Range Flash Point Ignition temperature Set Inflammability Danger of Explosion Critical values for explosion	PERSONAL any relevant mi releasures al measures to ty from hoodstur dis before brea t boroughly aft e gloves are comm t all times.	PROTECTION aterials with critical r handling chemics fits and beverages. As and ather work, or work and apply rotective skin crear ended during refills IES Value/Rangu Not determine > 220 °C > 100 °C > 220 °C Product is no Product is no	els should be skin creams n. ng Unit ut unit ad sett-igniting t explosive Vol: % vol: % vol: %	Method	d at the workplace.

11. STABILITY AND REACTIVITY

Stable-under recommended storage and handling conditions (see section 8) Keep away from oxidizing agents and strong alkaline or acid materials in order to avoid exothermic reactions.

12. TOXICOLOGICAL INFORMATION

The product is not subject to classification according to the calculation method of the General EC classification Guidelines for preparations as issued in the latest version: When used and handled according to the recommendations these products do not have any harmful effects according to our experience and the information provided to us. Repeated or prolonged contact with this product may cause removal of natural tats from the skin resulting in skin dryness. If uplashed into the eyes some irritation may occur and possibly some reversible damage.

13. ECOLOGICAL INFORMATION

The product should not be allowed to enter drains of water courses or soil.

14. DISPOSAL CONSIDERATIONS

Recycle wherever possible. Consult State Land Waste Authority for disposal. Bury or incinerate at an approved site. Recycle containers if possible, or dispose of in an authorized landfill.

15. TRANSPORT INFORMATION

No restrictions.

16. REGULATORY INFORMATION

Non-flammable, non-hazardous, and insoluble in water.

17. OTHER INFORMATION

The information of this Material Safety Data Sheet (MSDS) is based on the present state of our knowledge and laws. The users' working conditions are beyond our knowledge and control and for this reason the user must accept responsibility for taking all the necessary precautions. The information in this MSDS is not to be considered as a guarantee of the product's properties.

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18. CONTACT POINT

COMPANY CONTACT – RICHARD KRAFT (02) 9755 8000 – during normal business hours 0404 461 451 – during normal business hours and after hours.

AUSTRALIAN POISONS INFORMATION CENTRE 24 HOUR SERVICE 13 11 26

POLICE, FIRE BRIGADE OR AMBULANCE

		MATERI	AL SAFE	TY DATA S	HEET
	ict reference: HGI of issue : 18.00		01, HGI-12791		
1.	IDENTIFICATI	ON OF PRODUC	T AND COMPAN	IY	
	uct name uct code	: RND HEATS : HGI-12601 F tack.		n low tack, HGI-1270	1 & HGI-12791 RND Heatset cyan me
Inten	ded use		paper via the web	offset heat-set proce	\$\$.
Comj	oany details	9 Christina	Steinberg Austra Road, N.S.W. 2163	ilia Ltd	Phone: + 61 2 9755 8000 Fax : + 61 2 9723 3833
2.	STATEMENT	OF HAZARDOU	S NATURE		
	Not classified	as hazardous a	ccording to crite	ria of Worksafe Au	stralia
3.	UN NUMBER,	DANGEROUS G	GOODS CLASS,	AND SUBSIDIARY F	ISK
	UN Number Packing Grou Dangerous G Subsidiary Ri Hazchem Coo Poisons Sche	oods Class sk le	None None None None None None		
4.	COMPOSITIO	N / INFORMATIO	ON ON INGREDIE	INTS	
	C.I. Pigment B Vehicle Additives Vegetable oil Ink oil	lue 15:3 (Cas no	. 147 – 14 – 8)	$\begin{array}{c} 12-14\%\\ 63-67\%\\ 04-06\%\\ 07-09\%\\ 12-18\% \end{array}$	
5.	FIRST AID ME	ASURES			
	After inhalation such as shallow After skin conta thoroughly. After eye contac	breathing. ct – instantly remov t. – rinse opened e	air if fumes or com e any contaminated	clothing and wash affe es under running water	Inhaled; consult doctor in case of sympton cled areas with scop and water and rinse Ensure complete irrigation of the eye.
6.	FIRE-FIGHTIN	IG MEASURES			
	Suitable exting Foam Dry chemical po Carbon dioxide	uishing agents wder			

Water spray or fog for large fires only For safety reasons water jet in unsuitable. Alert the Fire Brigade and give them the location and nature of the hazard. Wear breathing apparatus plus protective gloves as under certain fire conditions hazardous gases such as Carbon Monoxide (CO) and Nitrogen Oxide (NO) cannot be excluded. 7. SPILLS AND DISPOSAL Wear appropriate protective clothing Stoppery when split Remove all ignition sources Prevent splitage from entering drains and water ways. revent sprage contentance or enaming oracis and wear ways. Contain spill with sand, earth, or Vermiculite. Collect recoverable into labeled containers for recycling. Absorb remaining product with sand, earth, or Vermiculite and place in appropriate containers for disposal. Wash area and prevent runnell into drains or water ways. If contamination of drains or water ways occurs, then advise emergency services immediately. Consult State Land Waste Authority for disposal. Bury or incinerate at an approved site. 8. HANDLING AND STORAGE Avoid skin and eye contact. Smoking , eating, and drinking are prohibited in the storage areas or when handling. Check all containers are clearly labeled, securely sealed and free from leaks. Avoid storage with oxidizers. Store away from ignition sources or naked lights. Store in original containers, out of direct sunlight and away from sources of heat. Store in a cool, dry and well ventilated area. 9. EXPOSURE CONTROLS / PERSONAL PROTECTION These products do not contain any relevant materials with critical values that have to be monitored at the workplace. General protection and hygiene measures The usual precautionary general measures for handling chemicals should be adhered to. Hygiene measure : Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Clean skin thoroughly after work and apply skin cream Protection of hands : Protective gloves and protective skin cream. Eye protection : Safety glasses recommended during refiling. Safety shoes should be worn at all times. 10. PHYSICAL AND CHEMICAL PROPERTIES Appearance : Form : Paste Colour : Cyan Value/Range Unit Method Change in condition Melting point/Melting Range Boiling Point/Boiling Range Not determined > 240 °C > 100 °C Flash Point Ignition temperature Self-inflammability > 220 °C Product is not self-igniting. Danger of Explosion Critical values for explosion Product is not explosive Lower 0.6 Vol. % Upper 6.0 Vol. % Solubility in/Miscibility with water Not miscible or difficult to mix. Viscosity:

Keep away from oxidizing agents ar TOXICOLOGICAL INFORMATI The product is not subject to classi preparations as issued in the latest have any harmful effects according Repeated or prolonged contact will splashed into the eyes some initiate some initiate description of this Recycle wherever possible Consult State Land Waste Authority Bury or incinente at an approved a Recycle wherever possible Consult State Land Waste Authority Bury or incinente at an approved a Recycle containers if possible, or di TRANSPORT INFORMATION No restrictions. Recycle INFORMATION No restrictions OTHER INFORMATION The information of this Material Saf users' working conditions are bayor	rage and handling conditions (see section 8) ts and strong alkaline or acid materials in order to avoid exothermic reactions. IATION assification according to the calculation method of the General EC classification Guideline test version: When used and handled according to the recommendations these products of ling to our experience and the information provided to us. with this product may cause removal of natural faits from the skin resulting in skin dryne tation may occur and possibly some reversible damage. ION red to enter drains of water courses or soil. ONS or dispose of in an authorized landfill. DN 1 1 1 1 1 1 1 1 1 1 1 1 1
Keep away from oxidizing agents ar 12. TOXICOLOGICAL INFORMATI The product is not subject to classi preparations as issued in the latest have any harmful effects according Repeated or prolonged confact will splashed into the eyes some initation of the eyes some initation. 13. ECOLOGICAL INFORMATION The product should not be allowed to the eyes some initation. 14. DISPOSAL CONSIDERATION: Recycle wherever possible. Consult State Land Waste Authority Bury or incinerate at an approved as Brecycle containers if possible, or distribution. No restrictions. 15. TRANSPORT INFORMATION No restrictions. 16. REGULATORY INFORMATION The information of this Material Safuser's working conditions are beyon taking all the necessary precautions properties.	Is and strong alkaline or acid materials in order to avoid exothermic reactions. IATION assification according to the calculation method of the General EC classification Guideline best version. When used and handled according to the recommendations these products d ling to cur experience and the information provided to us. with this product may cause removal of natural fats from the skin resulting in skin dryne tation may occur and possibly some reversible damage. ION red to enter drains of water courses or soli. ONS or dispose of in an authorized landfill. DN TON
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preparations as issued in the latest have any harmful offects according Repeated or prolonged contact will splashed into the eyes some initiatio The product should not be allowed I DISPOSAL CONSIDERATION Recycle wherever possible. Consult State Land Waste Authority Bury or incinerate at an approved si Recycle containers if possible, or di Recycle containers Recycle containers if possible, or di Recycle containers Recycle containers if possible, or di Recycle containers Re	test version: When used and handled according to the recommendations these products of ting to our experience and the information provided to us. with this product may cause removal of natural faits from the skin resulting in skin dryne tation may occur and possibly some reversible damage. ION end to enter drains of water courses or soli. ONS only for disposal. Id site. or dispose of in an authorized landfill. ON
The product should not be allowed (14. DISPOSAL CONSIDERATION: Recycle wherever possible. Consult State Land Waste Authority Bury or incinerate at an approved a Recycle containers if possible, or di 15. TRANSPORT INFORMATION No restrictions. 16. REGULATORY INFORMATION Non-flammable, non-hazardous, an 17. OTHER INFORMATION The information of this Material Saf users' working conditions are beyon taking all the necessary precautions properties.	red to enter drains of water courses or soil. ONS only for disposal. ed site. or dispose of in an authorized landfill. ON i TRON
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Recycle wherever possible. Consult State Land Waste Authority Bury or incinerate at an approved a Recycle containers if possible, or di 15. TRANSPORT INFORMATION No restrictions. 16. REGULATORY INFORMATION Non-farmable, non-hazardous, an 17. OTHER INFORMATION The information of this Matenial Safi users' working conditions are beyon taking all the necessary precautions properties.	ority for disposal. ed site. or dispose of in an authorized landfill. DN I TRON
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No restrictions. 16. REGULATORY INFORMATION Non-flammable, non-hazardous, an 17. OTHER INFORMATION The information of this Matenal Sas users' working conditions are beyon taking all the necessary precautions properties.	TION
REGULATORY INFORMATION Non-flammable, non-hazardous, an OTHER INFORMATION The information of this Material Saf users' working conditions are beyon taking all the necessary precautions properties.	TON
Non-flammable, non-hazardous, an 17. OTHER INFORMATION The information of this Material Saf users' working conditions are beyon taking all the necessary precautions properties.	
 OTHER INFORMATION The information of this Material Saf- users' working conditions are beyon taking all the necessary procautions properties. 	, and insoluble in water.
The information of this Material Saf users' working conditions are beyon taking all the necessary precautions properties.	
18. CONTACT POINT	Safety Data Sheet (MSDS) is based on the present state of our knowledge and laws. The eyond our knowledge and control and for this reason the user must accept responsibility for sons. The information in this MSDS is not to be considered as a guarantee of the product's the product's source of the product's source of the product's source of t
COMPANY CONTACT - RICH/ (02) 9755 8000 - during normal 0404 461 451 - during normal	
AUSTRALIAN POISONS INFO	FORMATION CENTRE 24 HOUR SERVICE 13 11 26
POLICE, FIRE BRIGADE OR A	R AMBULANCE 000

		MATERI	AL SA	FETY DAT	A SHEET	
		GI-12502, HGI-127 04.2007	02, HGI-127	92		Revision No:0 Page No: 1 of 3
1.	IDENTICATIO	ON OF PRODUCT	AND COMP	PANY		
Prod	uct name uct Code	medium tack	RND Heatse c.	t magenta low tack	HGI-12702 & HGI-127	92 RND Heatset mage
	ded use			web offset heat-se		2222 0000
Company details : Hostmann-Steinberg 9 Christina Road, Villawood, N.S.W. 210			Road,		Phone: + 61 2 Fax : + 61 2	
2.	STATEMENT	OF HAZARDOU	S NATURE			
	Not classifie	d as hazardous a	ccording to	criteria of Works	afe Australia	
3.	UN NUMBER	, DANGEROUS	GOODS CLA	SS, AND SUBSID	IARY RISK	
	UN Number		None			
	Packing Gro Dangerous (up Goods Class	None			
	Subsidiary R	tisk	None			
	Hazchem Co Poisons Sch	iedule Number	None None			
4.	COMPOSITIO	ON / INFORMATIO	ON ON INGE	EDIENTS		
	C.I. Pigment	Red 57:1 (Cas no.	5281-04-9)			
	Vehicle Additives			59 - 62 % 04 - 06 %		
	Vegetable oil			05-07 %		
_	Ink oil			17-21 %		
5.	FIRST AID N		831.2333732	837		
	After inhalation		asures requin air if fumes o	ea. r combustion by-prodi	ucts are inhaled; consult do	otor in case of symptoms
			e any contami	nated clothing and wi	ash affected areas with soa	p and water and rinse
				minutes under runnin seek medical advice.	g water. Ensure complete i	rrigation of the eye.
6.	FIRE-FIGHT	ING MEASURES				
	Suitable extin	guishing agents				
	Dry chemical p	and an international statements				

Carbon dioxide Water spray or fog for large fires only Frais skut of high of angle in a both For safety reasons water jet in unsultable. Alort the Fire Brigade and give them the location and nature of the hazard. Wear breakhing apparentus plus protective gloves as under certain fire conditions hazardous gases such as Carbon Monoxide (CO) and Nitrogen Oxide (NO) cannot be excluded. SPILLS AND DISPOSAL 7. Wear appropriate protective clothing Slippery when split Remove all ignition sources Prevent splitage from entering drains and water ways. Contain spill with sand, earth, or Vermiculite. Collect recoverable into labeled containers for recycling. Absorb remaining product with sand, earth, or Vermiculite and place in appropriate containers for disposal. Wash area and prevent runoff into drains or water ways. If contamination of drains or water ways occurs, then advise emergency services immediately Consult State Land Waste Authority for disposal. Bury or incinerate at an approved site. HANDLING AND STORAGE 8. Avoid skin and eye contact. Avoid skin and eye contact. Smoking, a valing, and drinking are prohibited in the storage areas or when handling. Check all containers are clearly labeled, securely sealed and free from leaks. Avoid storage with oxidizers. Store away from ignition sources or naked lights. Store in original containers, out of direct sunlight and away from sources of heat. Store in a cool, dry and well ventilated area. 9. EXPOSURE CONTROLS / PERSONAL PROTECTION These products do not contain any relevant materials with critical values that have to be monitored at the workplace. General protection and hygiene measures. The usual precautionary general measures for handling chemicals should be adhered to. Hygiene measure : Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Clean skin thoroughly after work and apply skin cream. Protection of hands : Protective gloves and protective skin cream. Eye protection : Safety glasses recommended during refiling. Safety shoes should be worn at all times. PHYSICAL AND CHEMICAL PROPERTIES 10. Appearance : Form : Paste Form : Paste Colour : Magenta Method Value/Range Unit Change in condition Melting point/Melting Range Boiling Point/Boiling Range Not determined > 240 °C > 100 °C Flash Point Ignition temperature Self-inflammability > 220 °C Product is not self-igniting. Danger of Explosion Critical values for explosion Product is not explosive 0.6 Vol. % 6.0 Vol. % Lower Upper Solubility in/Miscibility with water 10 Not miscible or difficult to mix. Viscosity: 60 Dynamic at 25.0 °C 40 - 120 poise

11. STABILITY AND REACTIVITY

Stable under recommended storage and handling conditions (see section 8) Keep away from oxidizing agents and strong aikaline or acid materials in order to avoid exothermic reactions.

12. TOXICOLOGICAL INFORMATION

The product is not subject to classification according to the calculation method of the General EC classification Guidelines for preparations as issued in the latest version: When used and handled according to the recommendations these products do not have any harmful effects according to our experience and the information provided to us. Repeated or prolonged contact with this product may cause removal of natural tasts from the skin resulting in skin dryness. If splashed into the eyes some initiation may occur and possibly some reversible damage.

13. ECOLOGICAL INFORMATION

The product should not be allowed to enter drains of water courses or soil.

14. DISPOSAL CONSIDERATIONS

Recycle wherever possible. Consult State Land Waste Authority for disposal. Bury or incinerate at an approved site. Recycle containers if possible, or dispose of in an authorized landfil.

15. TRANSPORT INFORMATION

No restrictions.

16. REGULATORY INFORMATION

Non-flammable, non-hazardous, and insoluble in water.

17. OTHER INFORMATION

The information of this Material Safety Data Sheet (MSDS) is based on the present state of our knowledge and laws. The users' working conditions are beyond our knowledge and control and for this reason the user must accept responsibility for taking all the necessary precautions. The information in this MSDS is not to be considered as a guarantee of the product's properties.

18. CONTACT POINT

COMPANY CONTACT - RICHARD KRAFT (02) 9755 8000 - during normal business hours 0404 461 451 - during normal business hours and after hours.

AUSTRALIAN POISONS INFORMATION CENTRE 24 HOUR SERVICE 13 11 26

POLICE, FIRE BRIGADE OR AMBULANCE

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				Steinb	
		MATERI	AL SAF	ETY DATA S	HEET
	uct reference: HG of issue : 24.0	I-12603, HGI-127 4.2007	703, HGI-12793		Revision N Page No.
1.	IDENTICATIO	N OF PRODUCT	AND COMPA	NY	
Prod	uct name uct Code	: HGI-12603 medium tac	K.	ellow low tack, HGI-127	03 & HGI-12793 RND Heatset
	ded use pany details	: Hostmann- 9 Christina	Steinberg Aus	eb offset heat-set proce tralia Ltd	Phone: + 61 2 9755 Fax : + 61 2 9725 ACN: 115955327
2.	STATEMENT	OF HAZARDOU	S NATURE		
	Not classified	d as hazardous a	according to cr	riteria of Worksafe Aus	tralia
3.	UN NUMBER	DANGEROUS	GOODS CLASS	, AND SUBSIDIARY R	isk
	UN Number Packing Grou Dangerous G Subsidiary R Hazchem Co Polsons Sch	oods Class isk	None None None None None		
4.	COMPOSITIO	N / INFORMATIO	ON ON INGREI	DIENTS	
	C.I. Pigment Y Vehicle Additives Vegetable oil Ink oil	'ellow - 174 (Cas	no.78952-72-4) 10 - 12 % 62 - 66 % 04 - 06 % 05 - 07 % 17 - 21 %	
5.	FIRST AID M	EASURES			
	After inhalation symptoms such After skin conta thoroughly, After eye contai	as shallow breathin ct - instantly remov	air if fumes or co ig. e any contaminat ye for several min	imbustion by-products are led clothing and wash affec nutes under running water.	nhaled; consult doctor in case of ted areas with scop and water and Ensure complete infigation of the e
6.	FIRE-FIGHTI	NG MEASURES			
	Suitable exting Foam Dry chemical pr Carbon dioxide				

	For safety reason Alert the Fire Brig Wear breathing	g for large fres only is water jet in unsuit ade and give them apparatus plus pro te (CO) and Nitrog	able. the location stective gli	oves as under o	ertain fire c	onditions hazardo	us gases such a
7.	SPILLS AND D	ISPOSAL					
	Wear appropriate protective clothing Slippery when split Remove all (grition sources Prevent splitage from entering drains and water ways. Contain split with sand, earth, or Vermiculite. Collect recoverable into labeled containers for recycling. Absorb remaining product with sand, earth, or Vermiculite and place in appropriate containers for disposal. Wash area and prevent runoff into drains or water ways. If contamination of drains or water ways occurs, then advise emergency services immediately.						
		Consult State Land Waste Authority for disposal. Bury or incinerate at an approved site.					
8.	HANDLING AND STORAGE						
	Avoid skin and eye contact. Smoking , eabing, and drinking are prohibited in the storage areas or when handling. Check all containers are clearly labeled, securely sealed and free from leaks. Avoid storage with oxidizers. Store away from ignition sources or naked lights. Store in original containers, out of direct surlight and away from sources of heat. Store in a cool, dry and well ventilated area.						
	Avoid storage wit Store away from Store in original o	ignition sources or r containers, out of dir	rect sunlight		sources of h	ieat.	
9.	Avoid storage with Store away from Store in original of Store in a cool, d	ignition sources or r containers, out of dir	ect sunligh d area.	t and away from	sources of h	ieat,	
9.	Avoid storage will Store away from Store in original of Store in a cool, d	ignition sources or i containers, out of dir ry and well ventilate	ect sunligh d area. SONAL F	nt and away from			red at the workpla
9.	Avoid storage will Store away from Store in original or Store in a cool, d EXPOSURE C These products or General protection The usual process Hygiene measure Protection of ham Eye protection	ignition sources or i sontainers, out of dii ry and well ventilate ONTROLS / PER to not contain any n in and hygiene mea titionary general me or . Keep away fror Wash hands b	ect sunigh d area. SONAL F alevant ma suites asures for n foodstuff fore break oughly afte res and prin a recomme	PROTECTION terials with critica handling chemics is and beverages is and after work. r work and apply becitive skin crea	I values that us should b skin cream n.	have to be monitor	red at the workplar
9.	Avoid storage will Store away from Store in a cool, d Store in a cool, d EXPOSURE C These products o General protection The usual procat Hygiene measure Protection of ham Safety shoes sho	ignition sources or i containers, out of dil ontROLS / PER to not contain any n and hygiene mea histonary general me a : Keep away fro Wash hands b Clean skin thon ds : Protective glo : Safety glasses uild be worn at all to D CHEMICAL PI	ect sunigh d area. SONAL F alevant ma Suttiss fore breas oughty afte res and pru- a recomme mes.	PROTECTION terials with critica handling chemic: is and abeverages is an abeverages is a abeverages i	values that als should be skin cream n. ng.	; have to be monito	red at the workplar
	Avoid storage will Store away from Store in a cool, d EXPOSURE C These products o General protection The usual procat Hygiene measure Protection of ham Safety shoes sho PHYSICAL AN Appearance : Form : Paste	ignition sources or i containers, out of dil y and well ventilate ONTROLS / PER to not contain any n <u>in and hysiene mea</u> toonary general me a Keep away fro Wash hands b Clean skin thor ds : Protective glo Safety glasses build be worn at all th D CHEMICAL PI ton ting Range ing Range urre by tion	ect surrigh d area. SONAL F alevant ma SAI255 assures for n foodstuff afore break oughly affle rees and pru is recomme mes. ROPERTI	ROTECTION bandling chemic: is and beverages is and after work. r work and apply beetive skin creat nded during refill ES Value/Range Not determin > 240 °C > 100 °C > 220 °C Product is no Product is no	I values that als should b skin cream n. B. Unit ad	have to be monito e adhered to. Method	red at the workplas
	Avoid storage will Store in original original original Store in a cool, d EXPOSURE C These products original General protection The usual procat Hygiene measure Protection of ham Eve protection Safety shoes sho PhysicAL AN Appearance : Form : Paste Colour : Yellow Change in condit Metting point/Boil Biash Point Ignition temperata Self-Inflammabill Danger of Explor	ignition sources or i containers, out of dil contrainers, out of dil contracts, i ventilate contracts, i ventilate	ect surrigh d area. SONAL F alevant ma SAI255 assures for n foodstuff afore break oughly affle rees and pru is recomme mes. ROPERTI	t and away from PROTECTION terials with critica handling chemic: is and beverages is and after work r work and apply bective skin crea nded during refili ES Value/Range Not determin > 240 °C > 100 °C > 100 °C > 200 °C Product is no Product is no Product is no	I values that als should b skin cream n. ng. Unit u Unit ad t self-igniting t explosive Vol. % Vol. %	, have to be monitor e adhered to. Method	red at the workplar

11. STABILITY AND REACTIVITY

Stable under recommended storage and handling conditions (see section 8) Keep away from oxidizing agents and strong alkaline or acid materials in order to avoid exothermic reactions.

12. TOXICOLOGICAL INFORMATION

The product is not subject to classification according to the calculation method of the General EC classification Guidelines for preparations as issued in the latest version: When used and handled according to the recommendations these products do not have any harmful effects according to our expenence and the information provided to us. Repeated or prolenged contact with this product may cause removal of natural fats from the skin resulting in skin dryness. If splashed into the eyes some initiation may occur and possibly some reversible damage.

13. ECOLOGICAL INFORMATION

The product should not be allowed to enter drains of water courses or soil.

14. DISPOSAL CONSIDERATIONS

Recycle wherever possible, Consult State Land Waste Authonity for disposal, Bury or incinerate at an approved site. Recycle containers if possible, or dispose of in an authorized landfill.

15. TRANSPORT INFORMATION

No restrictions.

16. REGULATORY INFORMATION

Non-flammable, non-hazardous, and insoluble in water.

17. OTHER INFORMATION

The information of this Material Safety Data Sheet (MSOS) is based on the present state of our knowledge and laws. The users' working conditions are beyond our knowledge and control and for this reason the user must accept responsibility for taking all the necessary precautions. The information in this MSOS is not to be considered as a guarantee of the products properties.

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COMPANY CONTACT – RICHARD KRAFT (02) 9755 8000 – during normal business hours (404 461 451 – during normal business hours and after hours.

AUSTRALIAN POISONS INFORMATION CENTRE 24 HOUR SERVICE 13 11 26

POLICE, FIRE BRIGADE OR AMBULANCE

FUJIFILM

Product Name	e :Rol	lermatt N/F						
Product Code	:DP	4663						
Other Name								
Area of Use	:Cle	aning and c	onditioning of the damp	pening system of lithog	aphic offset presses.			
Usage Directi	ons:	Refer to P	roduct Information She	et				
Company Nar	ne:	DS CHEN	PORT (AUSTRALIA) F	TYLTD				
ABN:		68 006 33						
Company Add	dress:	41 Jesica Campbelli	Road ield, 3061.					
		112231251701111	(03) 9357 0933					
			: (03) 9357 0944					
Emergency N	umber:	Technical	Representative 0412 5	94 997				
Section 2	: Haz	zards Id	entification					
				csafe Australia. Not cl Transport by Road ar	assified as Dangerous (d Rail	Goods by the		
Hazard Class		행동이는 영향품						
Risk Stateme	nts:	R20/21/22	Harmful by inhalation	, in contact with skin ar	d if swallowed.			
		R36/38	Irritating to eyes and					
		R65	Harmful: May cause lung damage if swallowed.					
		R66 Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness. Do antichely functional discusses.						
23232727327								
Safety Staten	nents;	S23	Do not inhale fumes/					
		s24/25 S26	Avoid contact with sk	A	ely with plenty of water an	d contact a		
		320	doctor or poisons info		ery with prenty of water an	la comaci a		
		\$36/37/39	Wear suitable protect	tive clothing, gloves an	i eye/face protection.			
		S62	If swallowed, do NOT this container or labe		medical advice immediat	ely and show		
	JN Num	ber: Non r	egulated	Packing G	roup: Non regulated			
	DG CI	ass: Non r	boulated	Poison Sche	dule: S 5			
	Sub	risk: None	allocated	Hazchem (ode: Non regulated			
Section 3	: Co	mpositi	on					
	NAME			CAS NUMBER	PROPORTION			
2	Solvent r	aphtha (petri	xleum),heavy arom.	64742-94-5	>60%			
1	Ethylene	Glycol Mono	butyl Ether	111-76-2	30-60%			
	Non-haz	ardous Ingred	lients		Balance			
Section 4	: Firs	st Aid D	irections					
Eye :			t lenses if worn.					
				y with water for at least	15 minutes.			
	lf in	ritation persi	sts, seek medical atten	ation.				
Deal and Mark	no : D	ollermatt N	UE			INDSC		

FUJIFILM

Skin :	Wash affected area with plenty of water. Remove and wash contaminated clothing before re-use.
230.2727	If irritation develops and persists, seek medical attention.
Inhaled :	If affected by vapour, remove to fresh air, lay down and rest.
	If overcome by vapour, move victim to fresh air and if breathing stopped, apply artificial respiration. Seek medical attention.
Swallowed :	Immediately rinse mouth with water.
Swallowed :	Do NOT induce voniting.
	Seek medical attention.
Doctor Advice :	Treat Symptomatically
Section 5:	Fire Fighting Measures
Extinguishi Med	ng Foam, water spray (fog), dry chemical or carbon dioxide. dia:
Fire Precautio	ns: Eliminate all sources of ignition. Use water spray to cool fire exposed surfaces and to protect personnel.
	Firefighters should use self contained breathing apparatus if risk of exposure to products of combustion.
	On burning will emit toxic fumes including those of carbon monoxide and carbon dioxide.
Hazchem Co	de: Non regulated
Section 6:	Accidental Release Measures
Spills:	In the event of a spill, evacuate spill/danger area. Stop leak if safe to do so.
-01	Remove all ignition sources.
	Wear protective equipment to prevent skin and eye contamination.
	Open all doors and windows to improve ventilation in contaminated area.
	Do NOT allow spilt material to enter drains, sewers or waterways.
	Clean up spill immediately. Spills on the floor may be slippery.
	Spills should be absorbed with sand or other suitable material.
	Do NOT place spilled material back into original container/s.
Section 7	: Handling and Storage
Storage and	Store in a cool, dry place away from direct sunlight and avoid exposure to moisture,
Transport	Keep containers closed when not in use.
	Do not store in aluminium or galvanized containers and do not use die cast zinc or aluminium bungs.
	Do not handle or store near open flame, heat, sparks or strong oxidants.
Precaution	: All handling equipment should be grounded.
110000101	Safety goggles and gloves must be used when handling this product.
	Avoid frequent or long lasting contact with the skin and eyes.
	Use only in a well ventilated area and avoid breathing vapour and mist.
Section 9	: Exposure Controls/Personal Protection
Section 8	Exposure controls/Personal Protection
Product Nam	e : Rollermatt N/F
Date of prepa	ration or last review: 01-Aug-07 Page 2 of

Safety	Data Sheet	FUJIFILN
Exposure Lim	its: TWA - 100mg/m3	
	on: Use in a well ventilated area.	
Respiration:		Gloves: Use chemical resistant gloves
Clothing:	If needed, use protective apron to pre skin contact.	vent Goggles: Use chemical splash goggles or shield.
Section 9	Physical and Chemical	Properties
Appeara	nce: Water white, clear liquid	
Boiling Po	oint: 168-215 C	Specific Gravity: 0.89-0.90
% Vola	tile: 98% MIN.	Solubility: SI water miscible
anned	pH: not applicable	Odour: Hydrocarbon Odour
Flash Po	pint: 65 °C	VOC:
Section 1	0: Stability and Reactivi	tv
Combustible.		<i>.</i>
Do not mix or	store with strong oxidants or strong a	kalis.
Vapour is hea	avier than air and can travel along the	ground to remote sources of ignition.
Section 1	1: Toxicological Informa	tion
Eye:	This product can cause moderate e	ye irritation.
Skin:	Prolonged or repeated contact with	skin may irritate and cause contact dermatitis.
Inhaled:	This product can cause moderate in	ritation of the lungs if inhaled.
Swallowed:	Short term exposure by ingestion is	
Chronic:		sure, this product can cause dermatitis
Section 12	2: Ecological Informatio	n
Mobility:	This product is partially soluble in wate	f
Persistence: I	Expected to biodegrade at a moderate	rate according to OECD guidelines
Ecotoxicity:	May be toxic to aquatic organisms. Ave	oid contaminating waterways
Section 1	3: Disposal Consideration	ons
Disposal:	Collect spilled and leaking material	in labeled containers.
	Residue should be disposed of in a	이 집 것이 없다. 아님 같 때 집 다 안 다 안 다 집 것이 없다. 이 것이 없는 것이 있는 것이 없다. 이 것이 없다.
	Residue should be disposed of at a	n approved disposal site.
Section 1	4: Transport Information	
UN N	umber: Non regulated	Packing Group: Non regulated
	Class: Non regulated	
S	ubrisk: None allocated	
	STATEMENT STOLEN. MARKS	
Product Nam	e : Rollermatt N/F	IIIDS

FUJIFILM

Proper Shipping

Initial Emergency Response Guide Number: 100

Hazard Classification	n: Xn Harm	ful
Risk Statements:	R20/21/22 R36/38 R65 R66	Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes and skin. Harmful: May cause lung damage if swallowed. Repeated exposure may cause skin dryness or cracking.
C-4-1 - C	R67 S23	Vapours may cause drowsiness and dizziness.
Safety Statements:	s24/25	Do not inhale fumes/vapour Avoid contact with skin and eyes.
	S26	In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or poisons information centre.
	\$36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
	S62	If swallowed, do NOT induce vomiting; seek medical advice immediately and show this container or label.
Poison Schedule:	S 5	

Section 16: Other Information

Date of preparation or last review: 01-Aug-07

Version: 1

This MSDS summarises at the date of preparation or last review our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since DS Chemport (Australia) Pty Ltd and its subsidiaries cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.

Product Name : Rollermatt N/F Date of preparation or last review: 01-Aug-07

FUJIFILM

Section 1: Identification of the Material and Supplier

10 10 10222 UU FI	Rollermatt			
Product Code :	DP2896			
Other Name :	Flammable liq	uld, n.o.s.		
Area of Use :	Cleaning and	conditioning of the damp	ening system of alcoh	ol dampened lithographic offset presses.
Usage Directions	Refer to	Technical Data Sheet.		
Company Name: ABN: Company Addres	68 006 33 s: 41 Jesica Campbell Phone	Road field, 3061. : (03) 9357 0933	TY LTD	
Emergency Numb	FAX er: Technical	: (03) 9357 0944 Representative 0412 59	14 997	
Section 2: H	azards lo	dentification		
Classified as haz	ardous accord			ified as Dangerous Goods by the
Hazard Classifica	V2 (29) (0)		composition reade a	a an a hand in
Risk Statements:	R10 R65 R66	Flammable. Harmful: May cause lu Repeated exposure m		
Safety Statement	s: S02 S03/07/09 S23 S24/25 S62	Do not inhale fumes/v Avoid contact with ski	y closed in a cool, wel apour n and eyes. induce vomiting: seek	I ventilated place. medical advice immediately and show
UN N	umber: 1993		Packing G	roup: III
	i Class: 3		Poison Sche	
5	ubrisk: None	allocated	Hazchem C	ode: 2[S]
	omposit	ion		
Section 3: 0			CAS NUMBER	PROPORTION
Section 3: 0	IE			
Solv	3	roleum),heavy arom. dients	64742-94-5	>60% Balance
NAN Solv	ant naphtha (pel hazardous Ingre	dients	64742-94-5	
NAN Solv Non-	ent naphtha (pel hazardous Ingre First Aid E Remove conta	dients Directions ict lenses if worn, pen and flush thoroughly		Balance
NAN Solv Non-	int naphtha (pel hazardous Ingri inst Aid I Remove conta Hold eyelids o Seek medical Remove and y Do NOT induc	dients Directions ict lenses if worn, pen and flush thoroughly attention, wash contaminated clothi	with water for at least	Balance
NAN Solv Non- Section 4: F Eye :	int naphtha (pet hazardous Ingri inst Aid I Remove conta Hold eyelids o Seek medical Remove and y Do NOT induc If irritation dev If affected by	dients Directions of lenses if wom, pen and flush thoroughly attention, vash contaminated clothi e vomiting.	with water for at least ng before re-use. medical attention.	Balance 15 minutes.
NAN Solv Non- Section 4: F Eye : Skin :	ent naphtha (pet hazardous Ingre First Aid I Remove conta Hold eyelids o Seek medical Remove and w Do NOT induc If irritation dev If affected by Seek medical	dients Directions ict lenses if worn, pen and flush thoroughly attention, vash contaminated clothi e vomiting, elops and persists, seek vapour, remove to fresh	with water for at least ng before re-use. medical attention.	Balance 15 minutes.

	Data Sheet	FUJIFILM
Swallowed :	Immediately rinse mouth with water. Vomiting should NOT be induced due to Obtain medical attention immediately if ir	한 것을 못하는 것 같은 것 같아요. 이 것 같아요. 아이들 것 것 같은 것 같아요. 아이들 것 같아요.
Doctor Advice :	Treat Symptomatically	
Section 5:	Fire Fighting Measures	
Extinguishin Medi	g Foam, water spray (fog), dry chemical ia:	or carbon dioxide.
Fire Precaution	personnel.	ater spray to cool fire exposed surfaces and to protect clothing and self contained breathing apparatus when fighting
Hazchern Cod	ie: 2 [S]	
Section 6:	Accidental Release Measu	res
Spills:	In the event of a spill, evacuate spill/dan Remove all ignition sources. Wear full protective clothing and self cor Do NOT allow spilt material to enter drai Clean up spill immediately. Spills on the Spills should be absorbed with sand or o	tained breathing apparatus, especially in confined areas. ns, sewers or waterways. floor may be slippery.
Section 7:	Handling and Storage	and the second se
	Store in a cool, dry place away from direc Store away from sources of heat and igni Do not handle or store near open flame, h	tion,
Precaution	: Safety goggles and gloves must be used Use only in a well ventilated area and ave Do not get in eyes.	
	Exposure Controls/Persor	nal Protection
Section 8:		
1.2.1.1.	ts: TLV - 100 ppm	
Exposure Limit	ts: TLV - 100 ppm n: Use in a well ventilated area.	
Exposure Limi Ventilatio Respiration: I	n: Use in a well ventilated area. Not required	Gloves: Use chemical resistant gloves
Exposure Limit Ventilatio Respiration: 1 Clothing: 1	n: Use in a well ventilated area.	Gloves: Use chemical resistant gloves Goggles: Use chemical splash goggles or shield,
Exposure Limi Ventilatio Respiration: I Clothing:	n: Use in a well ventilated area. Not required If needed, use protective apron to prevent skin contact.	Goggles: Use chemical splash goggles or shield,
Exposure Limi Ventilatio Respiration: I Clothing: Section 9:	n: Use in a well ventilated area. Not required If needed, use protective apron to prevent skin contact. Physical and Chemical Pro	Goggles: Use chemical splash goggles or shield,
Exposure Limi Ventilatio Respiration: I Clothing: I Section 9: Appearar	n: Use in a well ventilated area. Not required If needed, use protective apron to prevent skin contact. Physical and Chemical Pro- nce: Water white, clear liquid	Goggles: Use chemical splash goggles or shield,
Exposure Limi Ventilatio Respiration: I Clothing: I Section 9: Appearar Boiling Pe	n: Use in a well ventilated area. Not required If needed, use protective apron to prevent skin contact. Physical and Chemical Pro- nce: Water white, clear liquid	Goggles: Use chemical splash goggles or shield.

	H: not applicable		Odour: Hydrocarbon Odour
	int: 44 °C		VOC:
Section 10	: Stability a	nd Reactivity	
violently. Mate FLAMMABLE. Firefighters sh	rial can form flam Vapour accumula ould use self conta		
Section 11	: Toxicolog	ical Information	
Eye:	This product can	cause slight to moderate eye in	mitation.
Skin:	Prolonged or rep	eated contact with skin may irri	itate and cause contact dermatitis.
Inhaled:	If exposed to con	centrations above recommend	ded levels, may be irritating to the eyes and lungs.
Swallowed:	This product can	cause serious health effects if	swallowed.
Chronic:	After prolonged	and repeated exposure, this pro	oduct can cause dermatitis
Section 12	: Ecologica	I Information	
Mobility: T	his product is part	ally soluble in water	
Persistence: E	xpected to biodeg	ade at a moderate rate accordi	ing to OECD guidelines
Ecotoxicity: M	lay be toxic to aqu	atic organisms. Avoid contamin	nating waterways
Section 13	: Disposal	Considerations	
Disposal:	Residue should	be disposed of in accordance w	with local regulations.
Section 14	: Transport	Information	
10000	mber: 1993	P	acking Group: III
1 번 개발 (Class: 3 brisk: None alloc	hete	
1991 - 1993an T.A	ng Flammable liq		
	ncy Response Gu	ide Number: 14	
Section 1	5: Regulator	y Information	
	cation: Xn Harm		
Risk Statement		Flammable.	
	R65 R66	Harmful: May cause lung dam Repeated exposure may cause	
Safety Stateme	000	Keep out of reach of children.	
	\$03/07/09		d in a cool, well ventilated place.
	S23	Do not inhale fumes/vapour	

FUJIFILM

\$24/25
\$62

Avoid contact with skin and eyes.

If swallowed, do NOT induce vomiting; seek medical advice immediately and show this container or label.

Poison Schedule: S 5

Section 16: Other Information

Date of preparation or last review: 01-Apr-07

Version: 2

This MSDS summarises at the date of preparation or last review our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since DS Chemport (Australia) Pty Ltd and its subsidiaries cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace.

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Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.

Product Name : Rollermatt Date of preparation or last review: 01-Apr-07

FUJIFILM

Product Name	:Rot	owash Bio			
Product Code	: DP				
Other Name					
Area of Use				이 집에서 집에서 이번 것이 같아요. 신지 않는 것이 없다.	ed for commercial and newspaper web press speed, or as a manual wash.
Usage Directio	ns:	Refer to	Product Information She	et	
Company Nam ABN: Company Addr		68 006 3 41 Jesica	a Road	TY LTD	
		Campbel Phone FAX	lifield, 3061. : (03) 9357 0933 : (03) 9357 0944		
Emergency Nu	mber:	Technica	Representative 0412 5	94 997	
Section 2:	Haz	ards l	dentification		
			ding to criteria of Work erous Goods Code for		lassified as Dangerous Goods by the nd Rail
Hazard Classif	ication	n: Xn Ham	mful		
Risk Statemen	ts;	R65	Harmful: May cause l	ung damage if swallow	red.
Safety Stateme	ints:	\$45 \$53	centre immediately a	if you feel unwell, con and show this container ain special instructions	
		THE Cassors			
67.9	1.00703	75101-01919	allocated allocated	Poison Sche	roup: None allocated dute: S.5
		10000	e allocated		Ode: None allocated
			124		
Section 3:	Cor	mposit	ion		
		nposit	ion	CAS NUMBER	PROPORTION
D	AME stilate:		n), hydrotreated light	CAS NUMBER 64742-47-8	PROPORTION 30-60% Balance
N. Di N	AME stillate: on-haza	s (petroleun ardous Ingre	n), hydrotreated light		30-60%
N. Di N	AME stillater on-haza Firs Rer Hole	s (petroleun ardous Ingre st Aid I nove conta	n), hydrotreated light adients Directions act lenses if worn, ipen and flush thoroughly	64742-47-8	30-60% Balance
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N D N Section 4: Eye :	AME stillater n-haza Rer Hold See Rer If in If al If o No Rer	s (petroleun ardous Ingre st Aid I nove conta d eyelids o k medical nove and i ritation dev ffected by vercome b mouth-to-r	n), hydrotreated light adients Directions act lenses if worn, pen and flush thoroughly attention, wash contaminated cloth /elops and persists, seek vapour, remove to fresh y vapour, nove victim to nouth respiration, aminated clothing and lo	64742-47-8 with water for at least ing before re-use. medical attention. air, lay down and rest. ofresh air and if breath	30-60% Balance 15 minutes.
N D N Section 4: Eye : Skin :	AME stillater an-haza Ren Hole See Ren If in If al If o No Ren See	s (petroleum ardous Ingre st Aid I nove conta d eyelids o k medical nove and i nitation dev flected by vercome b mouth-to-r move conta k medical	n), hydrotreated light adients Directions act lenses if worn, pen and flush thoroughly attention, wash contaminated cloth /elops and persists, seek vapour, remove to fresh y vapour, nove victim to nouth respiration, aminated clothing and lo	64742-47-8 with water for at least ing before re-use. medical attention. air, lay down and rest. ofresh air and if breath	30-60% Balance 15 minutes.
N Di N Section 4: Eye : Skin : Inhaled :	AME stillater Firs Rer Hol See Rer fin fin fin fo No Rer See Imn	s (petroleun ardous Ingre st Aid I nove conta d eyelids o k medical nove and i nove and i nove and i fected by vercome b mouth-to-r nove conta k medical nediately r	n), hydrotreated light adients Directions act lenses if worn, upen and flush thoroughly attention, wash contaminated cloth velops and persists, seek vapour, remove to fresh y vapour, nove victim to nouth respiration, aminated clothing and lo attention, inse mouth with water.	64742-47-8 with water for at least ing before re-use. medical attention. air, lay down and rest. ofresh air and if breath	30-60% Balance 15 minutes.

Safety Data Sheet FILLEIM Do NOT induce vomiting. Obtain medical attention immediately if ingested. Treat symptomatically Doctor Advice : Section 5: Fire Fighting Measures Extinguishing Foam, water spray (fog), dry chemical or carbon dioxide. Media: Fire Precautions: Eliminate all sources of ignition. Use water spray to cool fire exposed surfaces and to protect personnel. Firefighters should wear full protective clothing and self contained breathing apparatus when fighting fires involving this product. Hazchem Code: None allocated Section 6: Accidental Release Measures Spills: In the event of a spill, evacuate spill/danger area. Stop leak if safe to do so. Remove all ignition sources. Wear protective equipment to prevent skin and eye contamination. Ensure adequate ventilation to remove vapours, fumes, dust, etc. Do NOT allow spilt material to enter drains, sewers or waterways. Clean up spill immediately. Spills on the floor may be slippery. Do NOT absorb with saw-dust or other combustible absorbents. Section 7: Handling and Storage Storage and Store in a cool, dry place away from direct sunlight and avoid exposure to moisture. Transport: Store away from sources of heat and ignition. Store away from alkalis and oxidizing agents. Do not handle or store near open flame, heat, sparks or strong oxidants. Precaution: All handling equipment should be grounded. Safety goggles and gloves must be used when handling this product. Avoid frequent or long lasting contact with the skin and eyes. A solvent resistant barrier cream is recommended when handling this product. Use only in a well ventilated area and avoid breathing vapour and mist. Use only for its intended purpose and observe established practices of industrial hygiene. Section 8: Exposure Controls/Personal Protection Exposure Limits: TLV - 300 ppm Ventilation: Use in well ventilated area Respiration: Not required Gloves: Use chemical resistant gloves Clothing: If needed, use protective apron to prevent Goggles: Use chemical splash goggles or shield skin contact. MIDSC Product Name : Rotowash Bio Date of preparation or last review: 01-Jul-06 Page 2 of 4

Section 9	Physical and Chemi	cal Properties	
Appeara	ance: Pale yellow, clear liquid		
Boiling F	Point: 235->350 C	Specific Gravity:	0.82-0.85
% Vol	atile: 50% MIN	(3,1) () ()	Miscible with water
First F	pH: Not applicable		Mild, unspecific
Flash F	Point: 112 C	VOC:	
Section 1	0: Stability and React	tivity	
	or store with strong oxidants or stro	Contraction of the second s	
	use violent rupture of containers. I cause expansion or decomposition	사업 배상이 걸렸다. 친구가 아파가 같은 것이 가지?	
1.1397-14 (Texts) (1	should use self contained breathing	CONSIGNATION OF A DESCRIPTION OF A DESCR	nel or comainers.
<u> </u>		2018	
Section 1	1: Toxicological Infor		
Eye:	This product will cause eye dis		
Skin:	Prolonged or repeated contact	with skin may irritate an	d cause contact dermatitis.
Inhaled:	If exposed to concentrations at May cause headaches and dizz		Is, may be irritating to the eyes and lungs.
Swallowed:	This product is moderately toxi Small amounts of product aspir		ingestion may cause bronchopneumonia.
Chronic:	After prolonged and repeated e	exposure, this product ca	n cause dermatitis
Section 1	2: Ecological Informa	tion	
Mobility:	This product is partially soluble in	water	
Persistence;	Expected to biodegrade at a mode	erate rate according to O	ECD guidelines
Ecotoxicity:	May be toxic to aquatic organisms	. Avoid contaminating w	aterways
Section 1	3: Disposal Consider	ations	
Disposal:	Residue should be disposed of	at an approved disposa	l ste.
Section 1	4: Transport Informat	tion	
UN N	lumber: None allocated	Packing	Group: None allocated
	GClass: None allocated		
	ubrisk: None allocated		
Proper Shipp Name:	my		
Initial Emerge	ency Response Guide Number :	100	
Section 1	5: Regulatory Information	ation	
Hanned Class	ification: Xn Harmful		

FUJIFILM

Risk Statements: R65 Safety Statements: S45 Harmful: May cause lung damage if swallowed. In case of accident or if you feel unweil, contact a doctor or poisons information centre immediately and show this container or label. Avoid exposure - obtain special instructions before use.

Poison Schedule: S 5

Section 16: Other Information

\$53

Date of preparation or last review: 01-Jul-06

Version: 2

This MSDS summarises at the date of preparation or last review our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since DS Chemport (Australia) Pty Ltd and its subsidiaries cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

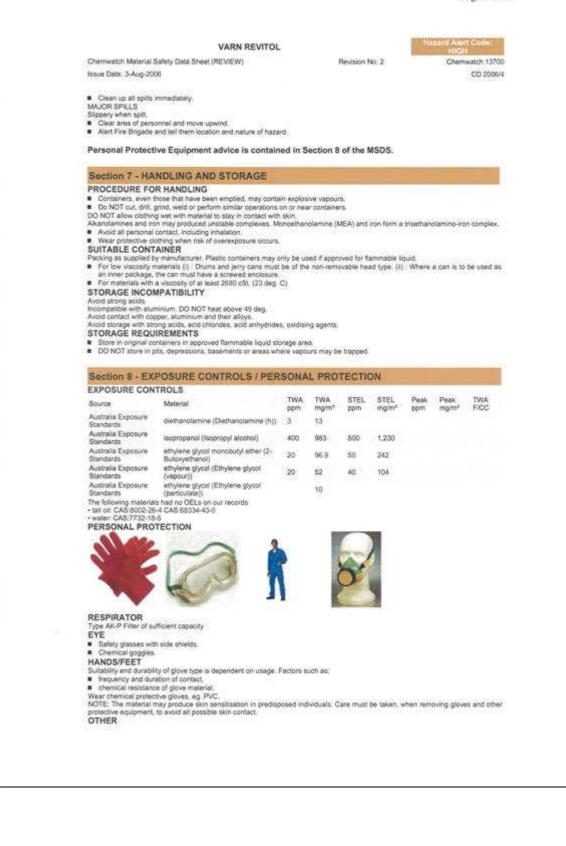
Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.

Product Name : Rotowash Blo Date of preparation or last review: 01-Jul-06

UDA	Y				Œ
		VARN REVI	TOL		Hazard Aler
Chemwatch Materia	I Safety Da	ta Sheet (REVIEW)		Revision No: 2	Cherty
Issue Date: 3-Aug-2	006				
Section 1 - C	HEMIC/	AL PRODUCT AND	COMPANY	IDENTIFICATION	
PRODUCT NAM					
PROPER SHIPP PLAMMABLE LIQU		AE (contains isopropanol)			
PRODUCT USE					
Concentrated roller SUPPLIER	detergent s	nd glaze remover.			
Company: Day Inter	national			y: Day International	
Address: 53 Westpool Drive			Address PO Box		
Hallam			Dovetory		
VIC, 3803 AUS			VIC, 317 AUS	7	
Telephone: +61 3 9			NUD		
		78 (Mon-Fri: Sam-6pm)			
Fax: +61 3 9796 47 HAZARD RATIN					
	222	Mn	Max		
Flammability:	2	and the second se			
Toxicity:	2				-
Body Contact	3		VX8X0=2		
			Mer/N2+0 Low+1	30.00	
Reactivity.	0	-	Moderate=2 High=3		
	3				
Cheonic:	1.95		Externend		
		S IDENTIFICATIO	Extensed		
Section 2 - H	AZARD	DOUS NATURE	Externed		
Section 2 - H STATEMENT OF HAZARDOUS SUBS	AZARD F HAZAR	DOUS NATURE	Externed	If NOHSC, and the ADG Code.	
Section 2 - H	AZARD F HAZAR	DOUS NATURE	Externed	r NOHBC, and the ADS Code.	
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VARN REVITOL		Hazard Alert
Chemistich Material Safety Data Sheet (REVIEW)	Revision No: 2	Chemwa
Issue Date: 3-Aug-2006		
ethylene glycol monobutyl ether	111-76-2	<10
ethylens glycol water	107-21-1 7732-18-5	<10 30-60
Section 4 - FIRST AID MEASURES		
SWALLOWED If sportaneous vomiting appears imminent or occurs, hold patient's he		
Ensure complete inspation of the eye by keeping eyelids apart and a upper and lower lids. SKIN If skin contact occurs: Immediately remove all contarninated clothing, including footwear Floah skin and hair with running water (and scap if available). INHALED If shins or combustion products are inhaled memove from contamine Lay patient down. Keep warm and rested. NOTES TO PHYSICIAN Treat symptomatically. For acute or short timm repeated exposures to ethytene glycot. Early treatment of ingestion is important. Ensure emesis is satisfacts Tost and correct for metabolic acidosis and hypocalcaema. To creat polsoning by the higher alighatic alicohols: Gastric lavage with copilous amounts of water. It may be beneficial to instill 50 mi of mineral oil into the stomach.	ated area.	by occasionally
for poisons (where specific treatment regime is absent): BASIC TREATMENT		
 Establish a patent alrway with suction where necessary. Watch for signs of respiratory insufficiency and assist ventilation as Any material aspirated during voniting may produce lung injury, pharmacologically. 		induced mecha
Watch for signs of respiratory insufficiency and assist ventilation as Any material aspirated during voniting may produce lung injury, pharmacologically. Section 5 - FIRE FIGHTING MEASURES		induced mecha
 Watch for signs of respiratory insufficiency and assist ventilation as Any material aspirated during voniting may produce lung injury, pharmacologically. 	Therefore emesis should not be	
Which for signs of respiratory insufficiency and assist ventilation as Any matrial aspirated during voniting may produce lung injury, pharmacologically. Section 5 - FIRE FIGHTING MEASURES EXTINGUISHING MEDIA Acohol stable foam. Dry chemical powder. FIRE FIGHTING Acohol stable foam. Nave Fire Brigade and tell them location and nature of hazard. May be violently or suplosively reactive. FIRE/EXPLOSION HAZARD Usual and vapour are finammable. Moderate free hazard when exposed to heat or fiame. Combination products include: carbon monouble (CO), carbon dioxide (binnis on products include: carbon monouble (CO), carbon dioxide (binnis on products include: carbon monouble (CO), carbon dioxide (binnis on products include: carbon monouble (CO), carbon dioxide (binnis on products include: carbon monouble (CO), carbon dioxide (binnis on products include: carbon monouble (CO), carbon dioxide (binnis on products include: carbon monouble (CO), carbon dioxide (binnis on products include: carbon monouble (CO), carbon dioxide (binnis on products include: carbon monouble (CO), carbon dioxide (binnis on products include: carbon monouble (CO), carbon dioxide (binnis on products include: carbon monouble (CO), carbon dioxide (binnis on products include: carbon monouble (CO), carbon dioxide (binnis on products include: carbon monouble (CO), carbon dioxide (binnis on products include: carbon monouble (CO), carbon dioxide (binnis on products include: carbon monouble (CO), carbon dioxide (binnis on products include: carbon monouble (CO), carbon dioxide (binnis on products include: carbon monouble (CO), carbon dioxide (binnis on products include: carbon monouble (CO), carbon dioxide (binnis on products include: carbon monouble (CO), carbon dioxide (binnis on products include: carbon monouble (binnis on product	Therefore emesis should not be CO2), nitrogen oxides (NDx), other p	
Wetch for signs of respiratory insufficiency and assist ventilation as Any material aspirated during voniting may produce lung injury, pharmacologically. Section 5 - FIRE FIGHTING MEASURES EXTINGUISHING MEDIA Action is able foam. Dry chemical position. Dry chemical position. FIRE FIGHTING Alert Fire Brigade and tell them location and nature of hazard. Hay be violently or explosively reactive. FIRE/EXPLOSION HAZARD Liquid and vapour are flammable. Moderate fire hazard when exposed to heat or flame. Combustion products include: carbon menoxide (CO), carbon dioxide (tuming organic material. FIRE INCOMPATIBILITY None known. HAZCHEM SYT Personal Protective Equipment Breating apparatus. Gas light chemical resistant suk.	Therefore emesis should not be CO2), nitrogen oxides (NDx), other p	
Watch for signs of respiratory insufficiency and assist ventilation as Any material aspirated during voniting may produce lung injury, pharmacologically. Section 5 - FIRE FIGHTING MEASURES EXTINGUISHING MEDIA Adorbi stable foam. Dry chemical powder. FIRE FIGHTING Adorbi stable foam. Dry chemical powder. FIRE FIGHTING Adorbi stable foam. Adorbi	Therefore emesis should not be CO2), nitrogen oxides (NDx), other p	

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Chemwatch Material Safety Data Sheet (REVIEW)	Revision No: 2	Chernwatch
Issue Date: 3-Aug-2006	CAPITORIA (AC. 14)	CD :
Overalls. PVC Apron.		
ENGINEERING CONTROLS		
For flammable liquids and flammable gases, local exha-	ust ventilation or a process enclosure ventilation :	system may be rec
Ventilation equipment should be explosion-resistant.		
Section 9 - PHYSICAL AND CHEMICAL	PROPERTIES	
APPEARANCE		
Clear gold flammable liquid with a sweet odour, mixes with PHYSICAL PROPERTIES	h water.	
Modes with water.		
Molecular Weight: Not applicable	Boiling Range (*C): 82	
Melting Range ("C): Not available Solubility in water (cd.): Miscible	Specific Gravity (water=1): 1.0@20C	
Solubility in water (gft.): Miscible pH (1% solution): Not available	pH (as supplied): 9.5 approx. Vapour Pressure (kPa): 1.583 (§ 20 de	20
Volatile Component (%vol): <42	Evaporation Rate: Not available	27
Relative Vapour Density (air=1): Not available	Flash Point ("C): 44 (CC)	
Lower Explosive Limit (%): Not Available	Upper Explosive Limit (%): Not Availab	
Autoignition Temp (°C): Not available State: LIQUID	Decomposition Temp (*C): Not Availab Viscosity: Not Available	Jer 1
- 02 HE-22476 .	100.00372.107.0611.972	
Section 10 - CHEMICAL STABILITY AN	ID REACTIVITY INFORMATION	
CONDITIONS CONTRIBUTING TO INSTABILIT	тү	
Presence of incompatible materials. Product is considered stable.		
Section 11 - TOXICOLOGICAL INFORM	AATION	
POTENTIAL HEALTH EFFECTS	designation of the second second	
ACUTE HEALTH EFFECTS Harmful if swallowed.	CHRONIC HEALTH EFFECTS Harmful: danger of serious damage to hea	175
HARMFUL- May cause lung damage if swallowed.	by prolonged exposure if swallowed.	1997
Risk of serious damage to eyes.	Possible skin sensitiser".	
Initiating to respiratory system and skin.	Limited evidence of a carcinogenic effect*	ŝ.
Vapours may cause dizziness or sufficiation.	May affect fertility".	
Inhalation and/or skin contact may produce health damage*.	May be harmful to the foetus/ embryo*. Cumulative effects may result following ex	*****
Vapours polecilally cause drowsiness and	* (limited evidence).	and a second sec
dizziness*.		
* (limited evidence).		
TOXICITY AND IRRITATION		
Not available. Refer to individual constituenta, unless otherwise specified data extracted from RTECS - F	Register of Toxic Effects of Chemical Substances	
TOXICITY	IRRITATION	
TALL OIL:		
for tall oil fatty acids:	2011/2010/3017	
Oral (rat) LD50: 10000 mg/kg	NI Reported	
(CCOHS, VW8R) DIETHANOLAMINE:		
Oral (rat) LDS0: 710 mg/kg	Skin (rabbit): 50 mg (open)- Mild	
Dermal (rabbit) LD50: 12200 mg/kg	Skin (rabbit): 500 mg/24 hr- Mild	
Eye (rabbil): 5500 mg - SEVERE		
Eye (rabbit) 0.75 mg/24 hr SEVERE		
The material may cause skin irritation after prolonged or n form of dermatitis is often characterised by skin redness (acris (nonaliergic).
ISOPROPANOL:	na manana ata ata ta	
Oral (human) LDLo: 3570 mg/kg	Skin (rabbit), 500 mg - Mild	
Oral (human) TDLo: 223 mg/kg	Eye (rabbit): 10 mg - Moderate	
Oral (man) TDLo: 14432 mg/kg	Eye (rabbit) 100mg/24tr- Moderate	
Oral (rat) LD50: 5045 mg/kg Dermal (rabbit) LD50: 12800 mg/kg	Eye (rabbit): 100 mg - SEVERE	
The substance is classified by IARC as Group 3:		
NOT classifiable as to its carcinogenicity to humans.		
Evidence of carcinogenicity may be inadequate or limited	in animal testing.	
ETHYLENE GLYCOL MONOBUTYL ETHER:		

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	Data Sheet (REVIEW)	TOL Revision	No: 2	Chemwalch 12
Issue Date: 3-Aug-2006	And Strated Long Street.	IMP/19/01	1999-1990 X	CD 20
and ball or hay core				00.00
Oral (rat) LD50: 470 mg/kg		Skin (rabbit): 500 mg,	open; Mild	
Dermal (rabbit) LD50: 220 m		Eye (rabbit): 100 mg/2	4h- Moderate	
Inhalation (human) TCLo: 10		Eye (rabbit): 100 mg S	EVERE	
Inhalation (human) TCLo: 19 Inhalation (rst. male) LCSO: 4	1.55.101.00	* [Union Carbide]		
Inhalation (rat-male) LC50: 4 Inhalation (rat-female) LC50				
		sing pronounced inflammation. 8	Repeated or prolonged exc	osure to initiant
may produce conjunctivitis.		ALTER AND CONTRACTORS AND A		
		repeated exposure and may pro- (erythema) and swelling epiderm		nonallergic). Th
NOTE: Changes in kidney, Ih				
exposed to high concentratio	ns of this substance by all re	xites.		
ETHYLENE GLYCOL:				
Oral (rat) LD50: 4700 mg/kg		Skin (rabbit): 555 mg/		
Oral (human) LDLp: 398 mg/ Oral (child) TDLp: 5500 mg/k		Eye (rabbit): 100 mg/1 Eye (rabbit): 1440mg/		
Inhalation (human) TCLo: 10		Eye (rabbit): 500 mg/2		
Dermal (rabbit) LD50: 9530 #		Eye (rabbit): 12 mg/m		
Inhalation (rat) LC50: 50100			201 C	
(Estimated Lethal Dose (hum		RTECS quoted by Ori	ca]	
Substance is reproductive eff Mutagenic to rat cells.	ieusur in rais (oinn detecta).			
WATER:				
No significant acute toxicolog			505 10 50 50 10 10 10 10 10 10 10 10 10 10 10 10 10	50.06
MATERIAL	CARCINOGEN	REPROTOXIN	SENSITISER	SKIN
Server Conference	unon.			
diethanolamine isopropanol	IARC:3 IARC:3			
ethylene glycol	IARC:3			
monobuly! ether	110135-00			
CARCINOGEN				
	or Research on Cancer (IAR	C) Carcinogens: diethanolamine	Category: 3	
CARCINOGEN LARC: International Association				
	or Hessearch on Caroos (1496	C) Carcinopens: isophonanol Cal	E vroot	
CARCINOGEN		C) Carcinogens: Isopropanol Cat		
CARCINOGEN		C) Carcinogens: Isopropanol Cel C) Carcinogens: ethylene glycol		.3
CARCINOGEN IARC: International Agency fo	or Research on Cancer (IAR	C) Carcinogens: ethylene glycol		.3
CARCINOGEN IARC: International Agency Is Section 12 - ECOLO	or Research on Cancer (IAR	C) Carcinogens: ethylene glycol		3
CARCINOGEN IARC: International Agency fo	or Research on Cancer (UAR DGICAL INFORMAT	C) Caronogens: ethylene glycol		.3
CARCINOGEN IARIC: International Agency Io Section 12 - ECOLO Marine Poliutant Not Determin This material and its containe	or Research on Cancer (UAR DGICAL INFORMAT Ined In must be disposed of as ha	C) Carcinogens: ethylene glycol I <mark>ION</mark> zardous waste		.3
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Page 6 of 6 VARN REVITOL Chemwatch Material Safety Data Sheet (REVIEW) Revision No: 2 Chemwatch 13700 Issue Date: 3-Aug-2006 CD 2005/4 POISONS SCHEDULE REGULATIONS RESOLATIONS tat of (CAS: 8022-36-4) is found on the following regulatory lists: Australia Inventory of Chemical Substances (AICS) IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk International Council of Chemical Associations (ICCA) - High Production Volume List List OECD Representative List of High Production Volume (HPV) Chemicals tait of (CAS: 68334-43-0) is found on the following regulatory lists: Australia Inventory of Chemical Substances (AICS) dehanobamine (CAS: 111-42-2) is found on the following regulatory lists: Australia High Volume Industrial Chemical List (HVICL) Australia High Volume Industrial Chemical List (HVICL) Australia High Volume Industrial Chemical List (HVICL) Australia Inventory of Chemical Substances (AICS) Australia Discons Schedule Australia Inventory of Chemical Substances (AICS) Australia Poisons Schedule IMO MARPOL 73/78 (Annex II) - List of Other Liquid Substances International Agency for Research on Cancor (IARC) Carcinogens DECD Representative List of High Production Volume (HPV) (Dremicals teopropanol (CAS: 67-63-0) is found on the following regulatory lists: Australia - Australia New Zealand Food Standards Code - Food Additives -Schedule 1 Permitted uses of food additives by food type Australia - Australia New Zealand Food Standards Code - Processing Aids -Generative permitted Australia - Australia New Zealand Food Standards Code - Processing Aids -Generally permitted Australia - Australia New Zealand Food Standards Code - Processing Aids -Permitted carriers, solvents and diluents Australia Exposure Standards Australia Exposure Standards Australia High Volume Industrial Chemical List (HVICL) Australia Inventory of Chemical Substances (MCC) MO MARPOL 7378 (Annex II) - List of Other Liquid Substances International Agency for Research on Cancer (IARC) Carcinogens OECD Representative List of High Production Volume (HPV) (Chemicals ethylane glycol monobuly) ether (CAS: 111-76-2) is found on the following regulatory lists; Australia Exposure Standards etrylene gylool monobuly emer (CAB: 111-13-2) is tourist on the bolowing regulatory lists; Australia Texposure Standards Australia Tekposure Standards Australia Tekposure Standards Australia Tekposure Standards Australia Policies (Annex II) - List of Other Liquid Substances Infernational Agency for Research on Cancer (JARC) Carcinogens OECD Representative List of High Production Volume (HPV) Chemicals VAP 6013 (CAS: 107-21-1) is found on the following regulatory lists; Australia Exposure Standards Australia Policina Political Inventory Australia Notional Political Inventory Australia Policins Schedule IMO MARPOL 7378 (Annex II) - List of Novicus Liquid Substances Carried in Bulk IMO MARPOL 7378 (Annex II) - List of Other Liquid Substances International Council of Chemical Associations (ICCA) - High Production Volume List List DECD Representative List of High Production Volume (HPV) Chemicals water (CAS: 7732-18-5) is found on the following regulatory fats; Australia Inventory of Chemical Substances (AICS) OECD Representative List of High Production Volume (HPV) Chemicals Section 16 - OTHER INFORMATION Ingredients with multiple CAS Nos Ingredient Name CAS Ingredient Name CAS tall ol 8002-264, 68334-43-0 This document is copyright. Apart from any fair dealing for the purposes of private study, research, review or criticism, as permitted under the Copyright Act, no part may be reproduced by any process without written parmission from CHEMWATCH. TEL (+61 3) 9572 4700. Issue Date: 3-Aug-2006 Print Date: 19-Jan-2007