



MATERIAL SAFETY DATA SHEET

Product Name **REVEAL JF**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name DIVERSEY AUSTRALIA PTY. LIMITED
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Synonym(s) HH15297 REVEAL JF 2.5L
Use(s) FLOOR CLEANER
SDS Date 27 Oct 2011

2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

RISK PHRASES

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R34 Causes burns.
R37 Irritating to respiratory system.
R41 Risk of serious damage to eyes.

SAFETY PHRASES

S2 Keep out of reach of children.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S37/39 Wear suitable gloves and eye/face protection.
S45 In case of accident or if you feel unwell seek medical advice immediately (show the label where possible).

CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

UN No. 3267 **DG Class** 8 **Subsidiary Risk(s)** None Allocated
Packing Group III **Hazchem Code** 2X

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Ingredient	Formula	CAS No.	Content
ETHANOLAMINE	C2-H7-N-O	141-43-5	20-35%
ETHYLENE GLYCOL MONOBUTYL ETHER	C6-H14-O2	111-76-2	10-20%
AMMONIUM HYDROXIDE	NH4-OH	1336-21-6	<5%
NON HAZARDOUS INGREDIENTS	Not Available	Not Available	remainder

4. FIRST AID MEASURES

- Eye** If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.
- Inhalation** If inhaled, remove from contaminated area. To protect rescuer, use a Full-face Type AK (Organic vapour, Ammonia) respirator or an Air-line respirator (in poorly ventilated areas). If victim is not breathing, apply artificial respiration and seek urgent medical attention.
- Skin** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.
- Ingestion** For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting.
- Advice to Doctor** Treat symptomatically.
- First Aid Facilities** Eye wash facilities should be available.

5. FIRE FIGHTING MEASURES

- Flammability** Non flammable. May evolve toxic gases (carbon/ nitrogen oxides, ammonia, hydrocarbons) when heated to decomposition.
- Fire and Explosion** Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.
- Extinguishing** Prevent contamination of drains or waterways.
- Hazchem Code** 2X

6. ACCIDENTAL RELEASE MEASURES

- Spillage** Contact emergency services where appropriate. Use personal protective equipment. Clear area of all unprotected personnel. Ventilate area where possible. Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal. Eliminate all ignition sources.

7. STORAGE AND HANDLING

- Storage** Store in a cool, dry, well ventilated area, removed from oxidising agents, acids, heat or ignition sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Large storage areas should have appropriate ventilation systems.
- Handling** Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Exposure Stds

Ingredient	Reference	TWA		STEL	
		ppm	mg/m ³	ppm	mg/m ³
2-Butoxyethanol (EGBE)	SWA (AUS)	20	96.9	50	242
Ammonia	SWA (AUS)	25	17	35	24
Ethanolamine	SWA (AUS)	3	7.5	6	15

Biological Limits No biological limit allocated.

Engineering Controls Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain vapour levels below the recommended exposure standard.

PPE Wear splash-proof goggles, PVC or rubber gloves and coveralls. In poorly ventilated areas, or where an inhalation risk exists, use a Type AK (Organic vapour, Ammonia) respirator.



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	CLEAR DARK GREEN LIQUID	Solubility (water)	SOLUBLE
Odour	AMMONIA ODOUR	Specific Gravity	1.01
pH	> 12.0	% Volatiles	NOT AVAILABLE
Vapour Pressure	NOT AVAILABLE	Flammability	NON FLAMMABLE
Vapour Density	NOT AVAILABLE	Flash Point	NOT RELEVANT
Boiling Point	100°C (Approximately)	Upper Explosion Limit	NOT RELEVANT
Melting Point	NOT AVAILABLE	Lower Explosion Limit	NOT RELEVANT
Evaporation Rate	NOT AVAILABLE		
Autoignition Temperature	NOT AVAILABLE	Decomposition Temperature	NOT AVAILABLE
Partition Coefficient	NOT AVAILABLE	Viscosity	NOT AVAILABLE

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended conditions of storage.
Conditions to Avoid	Avoid heat, sparks, open flames and other ignition sources.
Material to Avoid	Incompatible with oxidising agents (eg. hypochlorites) and acids (eg. nitric acid).
Hazardous Decomposition Products	May evolve toxic gases (carbon/ nitrogen oxides, ammonia, hydrocarbons) when heated to decomposition.
Hazardous Reactions	Polymerization is not expected to occur.

11. TOXICOLOGICAL INFORMATION

Health Hazard Summary	This product has the potential to cause adverse health effects. Use safe work practices to avoid eye or skin contact and inhalation. Ammonia released from the solution is a strong eye and respiratory tract irritant. Chronic exposure may result in liver and kidney damage.
Eye	Contact may result in irritation, lacrimation, pain, redness, conjunctivitis and corneal burns with possible permanent damage.
Inhalation	Over exposure may result in irritation of the nose and throat, coughing, nausea, dizziness and headache.
Skin	Contact may result in irritation, redness, pain, rash, dermatitis and possible burns.
Ingestion	Ingestion may result in ulceration and burns to the mouth and throat, nausea, vomiting, abdominal pain, diarrhoea and liver/kidney damage.
Toxicity Data	<p>ETHANOLAMINE (141-43-5)</p> <p>LD50 (Ingestion): 620 mg/kg (guinea pig)</p> <p>LD50 (Intramuscular): 1750 mg/kg (rat)</p> <p>LD50 (Intraperitoneal): 50 mg/kg (mouse)</p> <p>LD50 (Intravenous): 225 mg/kg (rat)</p> <p>LD50 (Skin): 1 mL/kg (rabbit)</p> <p>LD50 (Subcutaneous): 1500 mg/kg (rat)</p> <p>ETHYLENE GLYCOL MONOBUTYL ETHER (111-76-2)</p> <p>LC50 (Inhalation): 700 ppm (mouse)</p> <p>LD50 (Ingestion): 300 mg/kg (rabbit)</p> <p>LD50 (Skin): 230 mg/kg (guinea pig)</p> <p>TCLo (Inhalation): 100 ppm (human)</p> <p>TDLo (Ingestion): 7813 uL/kg (woman)</p> <p>AMMONIUM HYDROXIDE (1336-21-6)</p> <p>LCLo (Inhalation): 5000 ppm (human)</p> <p>LD50 (Ingestion): 350 mg/kg (rat)</p> <p>LD50 (Intravenous): 91 mg/kg (mouse)</p> <p>LDLo (Ingestion): 43 mg/kg (human)</p> <p>LDLo (Intravenous): 10 mg/kg (rabbit)</p> <p>LDLo (Subcutaneous): 160 mg/kg (mouse)</p> <p>TCLo (Inhalation): 408 ppm (human)</p>

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12. ECOLOGICAL INFORMATION

Environment Limited ecotoxicity data was available for this product at the time this report was prepared. Ensure appropriate measures are taken to prevent this product from entering the environment.

13. DISPOSAL CONSIDERATIONS

Waste Disposal For small amounts, absorb with sand, vermiculite or similar and dispose of to an approved landfill site. For larger amounts, contact the manufacturer for additional information. Prevent contamination of drains or waterways as aquatic life may be threatened and environmental damage may result.

Legislation Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION



CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

Shipping Name	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.			
UN No.	3267	DG Class	8	Subsidiary Risk(s) None Allocated
Packing Group	III	Hazchem Code	2X	GTEPG 8A1

IATA

Shipping Name	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.			
UN No.	3267	DG Class	8	Subsidiary Risk(s) None Allocated
Packing Group	III			

IMDG

Shipping Name	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.			
UN No.	3267	DG Class	8	Subsidiary Risk(s) None Allocated
Packing Group	III			

15. REGULATORY INFORMATION

Poison Schedule Classified as a Schedule 6 (S6) Poison using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

AICS All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

Additional Information EXPOSURE STANDARDS - TIME WEIGHTED AVERAGES: Exposure standards are established on the premise of an 8 hour work period of normal intensity, under normal climatic conditions and where a 16 hour break between shifts exists to enable the body to eliminate absorbed contaminants. In the following circumstances, exposure standards must be reduced: strenuous work conditions; hot, humid climates; high altitude conditions; extended shifts (which increase the exposure period and shorten the period of recuperation).

RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

ABBREVIATIONS:

ACGIH - American Conference of Industrial Hygienists.

ADG - Australian Dangerous Goods.

BEI - Biological Exposure Indice(s).

CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.

CNS - Central Nervous System.

EC No - European Community Number.

HSNO - Hazardous Substances and New Organisms.

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IARC - International Agency for Research on Cancer.
mg/m³ - Milligrams per Cubic Metre.
NOS - Not Otherwise Specified.
pH - relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).
ppm - Parts Per Million.
RTECS - Registry of Toxic Effects of Chemical Substances.
STEL - Short Term Exposure Limit.
SWA - Safe Work Australia.
TWA - Time Weighted Average.

HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a ChemAlert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this ChemAlert report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

Report Status

This document has been compiled by RMT on behalf of the manufacturer of the product and serves as the manufacturer's Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer.

While RMT has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

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End of Report