

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name REVEAL UHS CLEANER J-FLEX (NZ)
Synonyms JOHNSON DIVERSEY REVEAL UHS CLEANER J-FLEX, UHS CLEANER J-FLEX.
Uses CLEANING AGENT, FLOOR CLEANER.
Supplier Name JOHNSONDIVERSEY (NZ) LTD
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2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO CRITERIA IN THE HS (MIN DEG OF HAZ) REGS 2001
CLASSIFIED AS A DANGEROUS GOOD ACCORDING TO NZS 5433

Risk And Safety Phrases Risk and Safety Phrases are standardised phrases allocated to Hazardous Substances. Risk phrases convey a general description of the physicochemical, environmental and health hazards of a substance. Safety phrases provide information on safe storage, handling, disposal, personal protection and first aid.

RISK PHRASES

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R36/37/38 Irritating to eyes, respiratory system and skin.

SAFETY PHRASES

S2 Keep out of reach of children.
S24/25 Avoid contact with skin and eyes.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Formula	Conc.	CAS No.
POLYACRYLIC ACID		1 - 5%	Not Available
ETHANOLAMINE	C2-H7-N-O	30 - 40%	141-43-5
ETHYLENE GLYCOL MONOBUTYL ETHER	C6-H14-O2	10 - 30%	111-76-2
AMMONIUM HYDROXIDE	NH4-OH	1 - 5%	1336-21-6
WATER	H2O	10 - 30%	7732-18-5

4. FIRST AID MEASURES

Eye Hold eyelids apart and flush continuously with water or sterile saline solution. Continue until advised to stop by the Poisons Information Centre or for at least 15 minutes.

Inhalation Leave area of exposure immediately. If other than minor symptoms occur, seek immediate medical attention. If assisting a victim avoid becoming a casualty, wear a Type A (Organic vapour) respirator. If victim is not breathing apply artificial respiration.

Skin Remove contaminated clothing and gently flush affected areas with water. Seek medical attention if irritation develops. Launder clothing before reuse.

Ingestion For advice, contact a Poisons Information Centre on 0800 764 766 (0800 POISON) or +643 479 7248 (New Zealand) or a doctor. If swallowed, do not induce vomiting.

Advice To Doctor Treat symptomatically.

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5. FIRE FIGHTING MEASURES

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

6. ACCIDENTAL RELEASE MEASURES

- Spillage** If spilt (bulk), contact emergency services where appropriate. Wear splash-proof goggles, PVC/rubber gloves, a Type A (Organic vapour) respirator (where an inhalation risk exists), coveralls, PVC apron and rubber boots. Ventilate and clear area of all unprotected personnel. Absorb spill with sand or similar, collect and place in sealable containers for disposal.

7. HANDLING AND STORAGE

- Handling** Use safe work practices to avoid eye or skin contact and inhalation. Observe good personal hygiene. Prohibit eating, drinking and smoking in contaminated areas. Wash hands before eating. Remove contaminated clothing and protective equipment before entering eating areas.
- Storage** Store in cool, dry, well ventilated area, removed from oxidising agents, acids, nitrites - nitrosating agents and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Ventilation** Do not inhale vapours. Use in well ventilated areas. In poorly ventilated areas, mechanical extraction ventilation is recommended. Maintain vapour levels below the recommended exposure standard.
- Exposure Standards**
- ETHANOLAMINE (141-43-5)
ES-TWA : 3 ppm (8 mg/m3)
ES-STEL : 6 ppm (15 mg/m3)
WES : 3 ppm (7.5 mg/m3)
- ETHYLENE GLYCOL MONOBUTYL ETHER (111-76-2)
ES-TWA : 25 ppm (121 mg/m3) SKIN
- AMMONIUM HYDROXIDE (1336-21-6)
ES-TWA : 25 ppm (18 mg/m3) as Ammonia
ES-STEL : 35 ppm (27 mg/m3) as Ammonia
- PPE** Wear PVC or rubber gloves, splash-proof goggles and coveralls. Where an inhalation risk exists, wear a Type A (Organic vapour) Respirator or an Air-line respirator. If spraying, wear a Type A-Class P1 (Organic vapour and Particulate) Respirator.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: BLUE/GREEN LIQUID
Odour: FRAGRANT ODOUR
pH: > 12
Vapour Pressure: 18 mm Hg @ 20 C
Vapour Density: NOT AVAILABLE
Boiling Point: 100 C (Approximately)
Melting Point: < 0 C
Evaporation Rate: AS FOR WATER
Solubility (water): SOLUBLE
Specific Gravity: 1.01
% Volatiles: > 60 % (Water)
Flammability: NON FLAMMABLE
Flash Point: NOT RELEVANT
Upper Explosion Limit: NOT RELEVANT
Lower Explosion Limit: NOT RELEVANT
Autoignition Temperature: NOT AVAILABLE

10. STABILITY AND REACTIVITY

Reactivity May react with oxidising agents (eg. hypochlorites, peroxides), acids (eg. nitric acid) and nitrites (possibly forming carcinogenic nitrosamines).

Decomposition Products May evolve toxic gases (carbon/ nitrogen oxides, hydrocarbons, amines, ammonia) when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

Health Hazard Summary Corrosive - narcotic at high levels. Use safe work practices to avoid eye-skin contact or vapour inhalation. Due to the low vapour pressure of this product an inhalation hazard is not anticipated unless used in poorly ventilated areas, heated or sprayed. Chronic over exposure may result in skin and respiratory sensitisation, kidney, liver and blood damage.

Eye Corrosive - severe irritant. Exposure may result in pain, redness, corneal burns and ulceration with possible permanent damage with prolonged contact.

Inhalation Slightly corrosive. Over exposure may result in mucous membrane and upper respiratory tract irritation. May cause sensitisation with asthma-like symptoms. At high levels; breathing difficulties, ulceration of respiratory tract, pulmonary oedema and convulsions.

Skin Corrosive - severe irritant. Contact may result in pain, redness, rash, dermatitis and burns. Prolonged contact may result in severe burns and possible sensitisation.

Ingestion Corrosive - moderately toxic. Ingestion may result in nausea, vomiting, severe gastrointestinal irritation, slight ulceration, dizziness and diarrhoea. Large doses may result in kidney/ liver damage and unconsciousness.

Toxicity Data ETHANOLAMINE (141-43-5)
LD50 (Skin) : 1 mL/kg (rabbit)
LD50 (Ingestion) : 620 mg/kg (guinea pig)

ETHYLENE GLYCOL MONOBUTYL ETHER (111-76-2)
LC50 (Inhalation) : 700 ppm (mouse)
LD50 (Skin) : 230 mg/kg (guinea pig)
LD50 (Ingestion) : 300 mg/kg (rabbit)

AMMONIUM HYDROXIDE (1336-21-6)
LD50 (Ingestion) : 350 mg/kg (rat)

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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

Transport Class 8 Corrosive. Do not transport with chemicals of class; 1 (Explosives), 4.3 (Dangerous When Wet), 5.1 (Oxidising agents), 5.2 (Organic peroxides), 6 (Toxics - where the Toxic is a cyanide and the Corrosive is an acid), 7 (Radioactives), 8 (where products are acid/alkali) and foodstuffs.

UN Number 3266

Shipping Name CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.

DG Class 8

Subsidiary Risk(s) None Allocated

Packing Group II

Hazchem Code 2X

15. REGULATORY INFORMATION

Poison Schedule Classified as a Schedule 4 (S4) Poison using the criteria in The Toxic Substances Regulations 1983.

16. OTHER INFORMATION

Additional Information This product also contains the ingredient alkoxyated linear alcohols (CAS # 68987-81-5) (5 - 10 %).

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).

AMINE: CAUTION THIS PRODUCT CONTAINS AN AMINE. DO NOT ADD NITRITES or other NITROSATING AGENTS to this product due to the potential for NITROSAMINE formation. Nitrosamines are potent carcinogens and some have been shown to cause severe acute (heart, brain, blood, liver - kidney) damage as well as chronic effects (reproductive effects, liver - lung and kidney tumors).

ABBREVIATIONS:

mg/m³ - Milligrams per cubic metre

ppm - Parts Per Million

TWA/ES - Time Weighted Average or Exposure Standard.

pH - relates to hydrogen ion concentration - this value will relate to a scale of 0 - 14, where 0 is highly acidic and 14 is highly alkaline.

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

M - moles per litre, a unit of concentration.

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16. OTHER INFORMATION cont.

IARC - International Agency for Research on Cancer.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this Chem Alert 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. Information provided by Risk Management Technologies is summarised for ease of use. Additional technical information is available by calling +61 8 9322 1711.

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 Chem Alert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

COLOUR RATING SYSTEM: Chem Alert reports are assigned a colour rating of Green, Amber or Red for the purpose of providing users with a quick and easy means of determining the hazardous nature of a product. Safe handling recommendations are provided in all Chem Alert reports so as to clearly identify how users can control the hazards and thereby reduce the risk (or likelihood) of adverse effects. As a general guideline a Green colour rating indicates a low hazard, an Amber colour rating indicates a moderate hazard and a Red colour rating indicates a high hazard.

Report Reviewed 1st January 2005

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Report Status Chem Alert reports are compiled as an independent source of information by RMT's scientific department, based on the latest chemical and toxicological research and, where appropriate, in compliance with relevant standards, guidance notes and legislation. Where available the manufacturer's original MSDS is also provided to Chem Alert subscribers as a scanned image for their convenience. In many instances Chem Alert reports are compiled on behalf of manufacturers in which case they serve as the "Manufacturer's MSDS" and are clearly identified as such on the relevant reports.

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