## **1067 UV Wash**

**GSB Chemical Co.** 

Chemwatch: 21-9544 Version No: 4.1.1.1

Safety Data Sheet according to WHS and ADG requirements

## Chemwatch Hazard Alert Code: 2

Issue Date: 10/04/2014 Print Date: 30/10/2015 Initial Date: Not Available S.GHS.AUS.EN

## SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

#### **Product Identifier** Product name 1067 UV Wash Synonyms Product Code: 1067 Proper shipping name FLAMMABLE LIQUID, N.O.S. (contains aromatic hydrocarbons) Other means of Not Available identification Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Use according to manufacturer's directions.
Relevant identified uses	Ink Resin Removal. Swabbed on.

### Details of the supplier of the safety data sheet

Registered company name	GSB Chemical Co.	
Address	84 Camp Road Broadmeadows 3047 VIC Australia	
Telephone	+61 3 9457 1125 (8am-5pm, Monday - Friday)	
Fax	+61 3 9459 7978	
Website	Not Available	
Email	info@gsbchem.com.au	

## **Emergency telephone number**

Association / Organisation	Not Available	
Emergency telephone numbers	+61 3 9457 1125 (8am-5pm, Monday - Friday)	
Other emergency telephone numbers	13 11 26 (After hours)	

## **SECTION 2 HAZARDS IDENTIFICATION**

## Classification of the substance or mixture

## HAZARDOUS CHEMICAL. DANGEROUS GOODS. According to the Model WHS Regulations and the ADG Code.

Poisons Schedule	S6	
GHS Classification [1]	Flammable Liquid Category 3, Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, STOT - SE (Narcosis) Category 3	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HSIS ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI	

Label elements

GHS label elements





## Hazard statement(s)

H226	Flammable liquid and vapour
H315	Causes skin irritation
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness

## Precautionary statement(s) Prevention

riecautionary statement(s) rievention		
P210	P210 Keep away from heat/sparks/open flames/hot surfaces No smoking.	
P271	Use only outdoors or in a well-ventilated area.	
P240	Ground/bond container and receiving equipment.	

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P241	Use explosion-proof electrical/ventilating/lighting//equipment.	
P242	Use only non-sparking tools.	
P243	Take precautionary measures against static discharge.	
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	

## Precautionary statement(s) Response

P362	Take off contaminated clothing and wash before reuse.	
P370+P378	In case of fire: Use water spray/fog for extinction.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P312	Call a POISON CENTER or doctor/physician if you feel unwell.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
P302+P352	IF ON SKIN: Wash with plenty of soap and water.	
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.	
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.	
P332+P313	If skin irritation occurs: Get medical advice/attention.	

## Precautionary statement(s) Storage

P403+P235	Store in a well-ventilated place. Keep cool.	
P405	Store locked up.	
P403+P233	Store in a well-ventilated place. Keep container tightly closed.	

## Precautionary statement(s) Disposal

P501 Dispose of contents/container in accordance with local regulations.

## **SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

### Substances

See section below for composition of Mixtures

## Mixtures

CAS No	%[weight]	Name
Not Available	30-60	aliphatic hydrocarbons
63231-51-6	30-60	aromatic hydrocarbons
111-76-2	5-15	ethylene glycol monobutyl ether
107-98-2	5-15	propylene glycol monomethyl ether - alpha isomer
Not Available	<10	non-ionic surfactants & deodorisers

## **SECTION 4 FIRST AID MEASURES**

## Description of first aid measures

Eye Contact	If this product comes in contact with the eyes:  • Wash out immediately with fresh running water.  • Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.  • Seek medical attention without delay; if pain persists or recurs seek medical attention.  • Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.	
Skin Contact	If skin contact occurs:  Immediately remove all contaminated clothing, including footwear.  Flush skin and hair with running water (and soap if available).  Seek medical attention in event of irritation.	
Inhalation	<ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR in necessary.</li> <li>Transport to hospital, or doctor.</li> </ul>	
Ingestion	<ul> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Seek medical advice.</li> <li>Avoid giving milk or oils.</li> <li>Avoid giving alcohol.</li> </ul>	

## Indication of any immediate medical attention and special treatment needed

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necessary to evacuate the stomach contents: these include gastric layage after endotracheal intubation. If spontaneous vomiting has occurred after ingestion, the patient should be monitored for difficult breathing, as adverse effects of aspiration into the lungs may be delayed up to 48 hours.

Followed acute or short term repeated exposures to ethylene glycol monoalkyl ethers and their acetates:

- Hepatic metabolism produces ethylene glycol as a metabolite.
- Clinical presentation, following severe intoxication, resembles that of ethylene glycol exposures.
- Monitoring the urinary excretion of the alkoxyacetic acid metabolites may be a useful indication of exposure.

[Ellenhorn and Barceloux: Medical Toxicology]

For acute or short term repeated exposures to petroleum distillates or related hydrocarbons:

- Primary threat to life, from pure petroleum distillate ingestion and/or inhalation, is respiratory failure.
- Patients should be quickly evaluated for signs of respiratory distress (e.g. cyanosis, tachypnoea, intercostal retraction, obtundation) and given oxygen. Patients with inadequate tidal volumes or poor arterial blood gases (pO2 50 mm Hg) should be intubated.
- rhythmias complicate some hydrocarbon ingestion and/or inhalation and electrocardiographic evidence of myocardial injury has been reported; intravenous lines and cardiac monitors should be established in obviously symptomatic patients. The lungs excrete inhaled solvents, so that hyperventilation improves clearance.
- A chest x-ray should be taken immediately after stabilisation of breathing and circulation to document aspiration and detect the presence of pneumothorax.
- ▶ Epinephrine (adrenalin) is not recommended for treatment of bronchospasm because of potential myocardial sensitisation to catecholamines. Inhaled cardioselective bronchodilators (e.g. Alupent, Salbutamol) are the preferred agents, with aminophylline a second choice.
- Lavage is indicated in patients who require decontamination; ensure use of cuffed endotracheal tube in adult patients. [Ellenhorn and Barceloux: Medical Toxicology]

#### **SECTION 5 FIREFIGHTING MEASURES**

## **Extinguishing media**

- Water spray or fog.
- · Alcohol stable foam.
- Dry chemical powder.
- Carbon dioxide.

Do not use a water jet to fight fire.

#### Special hazards arising from the substrate or mixture

Fire Incompatibility

▶ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

# Advice for firefighters

- ▶ Alert Fire Brigade and tell them location and nature of hazard.
- May be violently or explosively reactive.
  - Wear breathing apparatus plus protective gloves.
- Prevent, by any means available, spillage from entering drains or water course.
  - If safe, switch off electrical equipment until vapour fire hazard removed.
  - Use water delivered as a fine spray to control fire and cool adjacent area.
  - Avoid spraying water onto liquid pools
    - DO NOT approach containers suspected to be hot.
    - Cool fire exposed containers with water spray from a protected location.
    - ▶ If safe to do so, remove containers from path of fire.

# Fire/Explosion Hazard

Fire Fighting

- ▶ Liquid and vapour are flammable Moderate fire hazard when exposed to heat or flame.
- Vapour forms an explosive mixture with air.
- Moderate explosion hazard when exposed to heat or flame.
- Vapour may travel a considerable distance to source of ignition.
- Heating may cause expansion or decomposition leading to violent rupture of containers
- ▶ On combustion, may emit toxic fumes of carbon monoxide (CO).

Combustion products include; carbon monoxide (CO) carbon dioxide (CO2) other pyrolysis products typical of burning organic materialMay emit clouds of acrid smoke

## **SECTION 6 ACCIDENTAL RELEASE MEASURES**

## Personal precautions, protective equipment and emergency procedures

## Remove all ignition sources

- Clean up all spills immediately.
  - Avoid breathing vapours and contact with skin and eyes.
  - Control personal contact with the substance, by using protective equipment.
  - Contain and absorb small quantities with vermiculite or other absorbent material.

  - ▶ Collect residues in a flammable waste container

## ▶ Clear area of personnel and move upwind.

- Alert Fire Brigade and tell them location and nature of hazard.
- May be violently or explosively reactive.
- Wear breathing apparatus plus protective gloves.
- Prevent, by any means available, spillage from entering drains or water course.
- Consider evacuation (or protect in place).
- No smoking, naked lights or ignition sources

## **Major Spills**

Minor Spills

- Increase ventilation. Stop leak if safe to do so.
- Water spray or fog may be used to disperse /absorb vapour.
- Contain spill with sand, earth or vermiculite.
- Use only spark-free shovels and explosion proof equipment.
- Collect recoverable product into labelled containers for recycling.
- Absorb remaining product with sand, earth or vermiculite.
- Collect solid residues and seal in labelled drums for disposal.
- Wash area and prevent runoff into drains.
- If contamination of drains or waterways occurs, advise emergency services.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

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#### **SECTION 7 HANDLING AND STORAGE**

#### Precautions for safe handling

- Containers, even those that have been emptied, may contain explosive vapours.
- Do NOT cut, drill, grind, weld or perform similar operations on or near containers.
- ▶ DO NOT allow clothing wet with material to stay in contact with skin
- Electrostatic discharge may be generated during pumping this may result in fire.
- Ensure electrical continuity by bonding and grounding (earthing) all equipment.
- Restrict line velocity during pumping in order to avoid generation of electrostatic discharge (<=1 m/sec until fill pipe submerged to twice its diameter, then
- Avoid splash filling.
- Do NOT use compressed air for filling discharging or handling operations.
- Avoid all personal contact, including inhalation
- Wear protective clothing when risk of overexposure occurs.
- Use in a well-ventilated area.
- Prevent concentration in hollows and sumps.

#### Safe handling

Other information

- DO NOT enter confined spaces until atmosphere has been checked.
- Avoid smoking, naked lights or ignition sources.
- ▶ Avoid generation of static electricity.
- DO NOT use plastic bucket
- ▶ Earth all lines and equipment.
- Use spark-free tools when handling.
- ▶ Avoid contact with incompatible materials.
- When handling, DO NOT eat, drink or smoke
- Keep containers securely sealed when not in use.
- Avoid physical damage to containers.
- Always wash hands with soap and water after handling.
- Work clothes should be laundered separately.
- Use good occupational work practice
- Observe manufacturer's storage and handling recommendations contained within this SDS.
- ▶ Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions.

#### Store in original containers in approved flammable liquid storage area.

- ▶ Store away from incompatible materials in a cool, dry, well-ventilated area.
- ▶ DO NOT store in pits, depressions, basements or areas where vapours may be trapped
- ▶ No smoking, naked lights, heat or ignition sources.
- ► Storage areas should be clearly identified, well illuminated, clear of obstruction and accessible only to trained and authorised personnel adequate security must be provided so that unauthorised personnel do not have access
- ▶ Store according to applicable regulations for flammable materials for storage tanks, containers, piping, buildings, rooms, cabinets, allowable quantities and minimum storage distances.
- ▶ Use non-sparking ventilation systems, approved explosion proof equipment and intrinsically safe electrical systems.
- ► Have appropriate extinguishing capability in storage area (e.g. portable fire extinguishers dry chemical, foam or carbon dioxide) and flammable gas
- ► Keep adsorbents for leaks and spills readily available.
- Protect containers against physical damage and check regularly for leaks.
- ▶ Observe manufacturer's storage and handling recommendations contained within this SDS.

In addition, for tank storages (where appropriate):

- ▶ Store in grounded, properly designed and approved vessels and away from incompatible materials.
- For bulk storages, consider use of floating roof or nitrogen blanketed vessels; where venting to atmosphere is possible, equip storage tank vents with flame arrestors; inspect tank vents during winter conditions for vapour/ ice build-up.
- ▶ Storage tanks should be above ground and diked to hold entire contents.

## Conditions for safe storage, including any incompatibilities

- ▶ Packing as supplied by manufacturer.
- Plastic containers may only be used if approved for flammable liquid.
- Check that containers are clearly labelled and free from leaks
- For low viscosity materials (i): Drums and jerry cans must be of the non-removable head type. (ii): Where a can is to be used as an inner package, the can must have a screwed enclosure.
- For materials with a viscosity of at least 2680 cSt. (23 deg. C)
  - For manufactured product having a viscosity of at least 250 cSt. (23 deg. C)
- Manufactured product that requires stirring before use and having a viscosity of at least 20 cSt (25 deg. C): (i) Removable head packaging; (ii) Cans with friction closures and (iii) low pressure tubes and cartridges may be used.
- ▶ Where combination packages are used, and the inner packages are of glass, there must be sufficient inert cushioning material in contact with inner and outer packages
- In addition, where inner packagings are glass and contain liquids of packing group I there must be sufficient inert absorbent to absorb any spillage, unless the outer packaging is a close fitting moulded plastic box and the substances are not incompatible with the plastic.

Storage incompatibility

Suitable container

Avoid reaction with oxidising agents

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

## **Control parameters**

## OCCUPATIONAL EXPOSURE LIMITS (OEL)

## INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	ethylene glycol monobutyl ether	2-Butoxyethanol	96.9 mg/m3 / 20 ppm	242 mg/m3 / 50 ppm	Not Available	Sk
Australia Exposure Standards	propylene glycol monomethyl ether - alpha isomer	Propylene glycol monomethyl ether	369 mg/m3 / 100 ppm	553 mg/m3 / 150 ppm	Not Available	Not Available

## **EMERGENCY LIMITS**

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Ingredient	Material name		TEEL-1	TEEL-2	TEEL-3
ethylene glycol monobutyl ether	Butoxyethanol, 2-; (Glycol ether EB)		20 ppm	20 ppm	700 ppm
propylene glycol monomethyl ether - alpha isomer	Propylene glycol monomethyl ether; (Ucar Triol HG-170)		150 ppm	150 ppm	470 ppm
In our diant	Original IDLU	Davis and IDLU			
Ingredient	Original IDLH Revised IDLH				
aliphatic hydrocarbons	Not Available Not Available				

Ingredient	Original IDLH	Revised IDLH
aliphatic hydrocarbons	Not Available	Not Available
aromatic hydrocarbons	Not Available	Not Available
ethylene glycol monobutyl ether	700 ppm	700 [Unch] ppm
propylene glycol monomethyl ether - alpha isomer	Not Available	Not Available
non-ionic surfactants & deodorisers	Not Available	Not Available

#### **Exposure controls**

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.

Employers may need to use multiple types of controls to prevent employee overexposure.

For flammable liquids and flammable gases, local exhaust ventilation or a process enclosure ventilation system may be required. Ventilation equipment should be explosion-resistant.

Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

## Appropriate engineering controls

Type of Contaminant:	Air Speed:	
solvent, vapours, degreasing etc., evaporating from tank (in still air).	0.25-0.5 m/s (50-100 f/min.)	
aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)	0.5-1 m/s (100-200 f/min.)	
direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)	1-2.5 m/s (200-500 f/min.)	

Within each range the appropriate value depends on:

Lower end of the range	Upper end of the range
1: Room air currents minimal or favourable to capture	1: Disturbing room air currents
2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity
3: Intermittent, low production.	3: High production, heavy use
4: Large hood or large air mass in motion	4: Small hood-local control only

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min.) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

## Personal protection









- Safety glasses with side shields.
- Chemical goggles

## Eve and face protection

Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]

## Skin protection

## See Hand protection below

- ▶ Wear chemical protective gloves, e.g. PVC.
- Wear safety footwear or safety gumboots, e.g. Rubber

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application

## Hands/feet protection

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final

- Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: ► frequency and duration of contact,
- ▶ chemical resistance of glove material

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▶ glove thickness and dexterity Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent). ▶ When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. ▶ When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. ▶ Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use. Contaminated gloves should be replaced. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended **Body protection** See Other protection below Overalls. ► PVC Apron. ▶ PVC protective suit may be required if exposure severe. ► Eyewash unit. ▶ Ensure there is ready access to a safety shower. Some plastic personal protective equipment (PPE) (e.g. gloves, aprons, overshoes) are not recommended as they may produce static electricity. Other protection For large scale or continuous use wear tight-weave non-static clothing (no metallic fasteners, cuffs or pockets). Non sparking safety or conductive footwear should be considered. Conductive footwear describes a boot or shoe with a sole made from a conductive compound chemically bound to the bottom components, for permanent control to electrically ground the foot an shall dissipate static electricity from the body to reduce the possibility of ignition of volatile compounds. Electrical resistance must range between 0 to 500,000 ohms. Conductive shoes should be stored in lockers close to the room in which they are worn. Personnel who have been issued conductive footwear should not wear them from their place of work to their homes and Thermal hazards Not Available

## Respiratory protection

Not Available

## **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

## Information on basic physical and chemical properties

Appearance	Clear flammable liquid with a characteristic odour; miscible with water.		
Physical state	#00Liquid	Relative density (Water = 1)	0.82
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	150-196	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	40	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Flammable.	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	95
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	#01miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	4.3	VOC g/L	Not Available

## **SECTION 10 STABILITY AND REACTIVITY**

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

## **SECTION 11 TOXICOLOGICAL INFORMATION**

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	A			
	Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo.  Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual.			
	There is some evidence to suggest that the material can cause respir lung damage.	ratory irritation in some persons. The body's response to such irritation can cause further		
	Inhalation hazard is increased at higher temperatures.  Inhaling high concentrations of mixed hydrocarbons can cause narcosis, with nausea, vomiting and lightheadedness. Low molecular weight (C2-C12)			
Inhaled	hydrocarbons can irritate mucous membranes and cause incoordinati	on, giddiness, nausea, vertigo, confusion, headache, appetite loss, drowsiness, tremors		
	reaction time, slurred speech and may progress to unconsciousness. PGME has an offensive odour, and may cause drowsiness and uncon	mfort, symptoms of giddiness, headache, dizziness, nausea, anaesthetic effects, slowed Serious poisonings may result in respiratory depression and may be fatal. sciousness if higher concentrations are inhaled, and severe reactions involving the eyes,		
	nose and throat.  Ethylene glycol monobutyl ether can destroy the blood cells with long t blood in the urine.	term exposure. It also causes eye, nose and throat discomfort. Higher doses can cause		
Ingestion	Accidental ingestion of the material may be damaging to the health of the individual.  Ingestion of petroleum hydrocarbons can irritate the pharynx, oesophagus, stomach and small intestine, and cause swellings and ulcers of the mucous.  Symptoms include a burning mouth and throat; larger amounts can cause nausea and vomiting, narcosis, weakness, dizziness, slow and shallow breathing, abdominal swelling, unconsciousness and convulsions.  Severe acute exposure to ethylene glycol monobutyl ether, by ingestion, may cause kidney damage, haemoglobinuria, (blood in urine) and is potentially fatal.			
	swallowed.	ments. The liquid may produce gastrointestinal discomfort and may be harmful if		
	This material can cause inflammation of the skin on contact in some p The material may accentuate any pre-existing dermatitis condition Repeated exposure may cause skin cracking, flaking or drying followin			
	Skin contact with the material may damage the health of the individual;			
Skin Contact	depression.			
	Open cuts, abraded or irritated skin should not be exposed to this mate Ethylene glycol monobutyl ether penetrates the skin easily and will cau	se more harm on skin contact than through inhalation.		
	Aromatic hydrocarbons may produce sensitivity and redness of the skil are more likely to.	n. They are not likely to be absorbed into the body through the skin but branched species		
	This material can cause eye irritation and damage in some persons.  Direct eye contact with petroleum hydrocarbons can be painful, and the	e corneal epithelium may be temporarily damaged. Aromatic species can cause irritation		
Eye	and excessive tear secretion.  Ethylene glycol monobutyl ether may cause pain, redness and damage			
	Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.  There is some evidence from animal testing that exposure to this material may result in toxic effects to the unborn baby.			
	· ·	xposure to the material may reduce fertility in humans at levels which do not cause other		
Chronio	Constant or exposure over long periods to mixed hydrocarbons may produce stupor with dizziness, weakness and visual disturbance, weight loss and anaemia,			
Chronic	The state of the s	drowsiness and even unconsciousness and death. There is no evidence of damage to the		
	bone development.	bbits, but sperm destruction in dogs. Animal testing also shows high doses can delay		
	There has been some concern that this material can cause cancer or r Chronic solvent inhalation exposures may result in nervous system im			
	TOXICITY			
1067 UV Wash		IRRITATION		
	Oral (Rat) LD50: 5400 mg/kg <sup>[2]</sup>	IRRITATION  Not Available		
	Oral (Rat) LD50: 5400 mg/kg <sup>[2]</sup>			
aliphatic hydrocarbons		Not Available		
aliphatic hydrocarbons	TOXICITY	Not Available  IRRITATION		
aliphatic hydrocarbons	TOXICITY  Not Available	Not Available  IRRITATION  Not Available		
	TOXICITY  Not Available  TOXICITY	Not Available  IRRITATION  Not Available  IRRITATION		
<u> </u>	TOXICITY Not Available  TOXICITY  Oral (bird) LD50: >2250 mg/kg <sup>[2]</sup>	Not Available  IRRITATION  Not Available  IRRITATION  Not Available		
<u> </u>	TOXICITY  Not Available  TOXICITY  Oral (bird) LD50: >2250 mg/kg <sup>[2]</sup> TOXICITY	Not Available  IRRITATION  Not Available  IRRITATION  Not Available  IRRITATION		
aromatic hydrocarbons	TOXICITY  Not Available  TOXICITY  Oral (bird) LD50: >2250 mg/kg <sup>[2]</sup> TOXICITY  dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Not Available  IRRITATION  Not Available  IRRITATION  Not Available  IRRITATION  * [Union Carbide]		
aromatic hydrocarbons	TOXICITY Not Available  TOXICITY Oral (bird) LD50: >2250 mg/kg <sup>[2]</sup> TOXICITY dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup> Inhalation (rat) LC50: 450 ppm/4H <sup>[2]</sup>	Not Available  IRRITATION  Not Available  IRRITATION  Not Available  IRRITATION  * [Union Carbide]  Eye (rabbit): 100 mg SEVERE		
aromatic hydrocarbons	TOXICITY Not Available  TOXICITY Oral (bird) LD50: >2250 mg/kg <sup>[2]</sup> TOXICITY dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup> Inhalation (rat) LC50: 450 ppm/4H <sup>[2]</sup>	Not Available  IRRITATION  Not Available  IRRITATION  Not Available  IRRITATION  * [Union Carbide]  Eye (rabbit): 100 mg SEVERE  Eye (rabbit): 100 mg/24h-moderate		
aromatic hydrocarbons	TOXICITY  Not Available  TOXICITY  Oral (bird) LD50: >2250 mg/kg <sup>[2]</sup> TOXICITY  dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup> Inhalation (rat) LC50: 450 ppm/4H <sup>[2]</sup> Oral (rat) LD50: 250 mg/kg <sup>[2]</sup> TOXICITY  dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Not Available  IRRITATION  Not Available  IRRITATION  Not Available  IRRITATION  * [Union Carbide]  Eye (rabbit): 100 mg SEVERE  Eye (rabbit): 100 mg/24h-moderate  Skin (rabbit): 500 mg, open; mild		
aromatic hydrocarbons ethylene glycol monobutyl ether	TOXICITY  Not Available  TOXICITY  Oral (bird) LD50: >2250 mg/kg <sup>[2]</sup> TOXICITY  dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup> Inhalation (rat) LC50: 450 ppm/4H <sup>[2]</sup> Oral (rat) LD50: 250 mg/kg <sup>[2]</sup> TOXICITY  dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup> Inhalation (rat) LC50: 10000 ppm/5 h.d <sup>[2]</sup>	IRRITATION Not Available  IRRITATION Not Available  IRRITATION  Not Available  IRRITATION  * [Union Carbide]  Eye (rabbit): 100 mg SEVERE  Eye (rabbit): 100 mg/24h-moderate  Skin (rabbit): 500 mg, open; mild  IRRITATION  Eye (rabbit) 230 mg mild  Eye (rabbit) 500 mg/24 h mild		
aromatic hydrocarbons ethylene glycol monobutyl ether  propylene glycol monomethyl ether - alpha	TOXICITY  Not Available  TOXICITY  Oral (bird) LD50: >2250 mg/kg <sup>[2]</sup> TOXICITY  dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup> Inhalation (rat) LC50: 450 ppm/4H <sup>[2]</sup> Oral (rat) LD50: 250 mg/kg <sup>[2]</sup> TOXICITY  dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	IRRITATION  Not Available  IRRITATION  Not Available  IRRITATION  * [Union Carbide]  Eye (rabbit): 100 mg SEVERE  Eye (rabbit): 100 mg/24h-moderate  Skin (rabbit): 500 mg, open; mild  IRRITATION  Eye (rabbit) 230 mg mild  Eye (rabbit) 500 mg/24 h mild  Eye (rabbit): 100 mg SEVERE		
aromatic hydrocarbons ethylene glycol monobutyl ether  propylene glycol monomethyl ether - alpha	TOXICITY  Not Available  TOXICITY  Oral (bird) LD50: >2250 mg/kg <sup>[2]</sup> TOXICITY  dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup> Inhalation (rat) LC50: 450 ppm/4H <sup>[2]</sup> Oral (rat) LD50: 250 mg/kg <sup>[2]</sup> TOXICITY  dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup> Inhalation (rat) LC50: 10000 ppm/5 h.d <sup>[2]</sup>	IRRITATION Not Available  IRRITATION Not Available  IRRITATION  Not Available  IRRITATION  * [Union Carbide]  Eye (rabbit): 100 mg SEVERE  Eye (rabbit): 100 mg/24h-moderate  Skin (rabbit): 500 mg, open; mild  IRRITATION  Eye (rabbit) 230 mg mild  Eye (rabbit) 500 mg/24 h mild		
aromatic hydrocarbons  ethylene glycol monobutyl ether  propylene glycol monomethyl ether - alpha isomer	TOXICITY  Not Available  TOXICITY  Oral (bird) LD50: >2250 mg/kg <sup>[2]</sup> TOXICITY  dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup> Inhalation (rat) LC50: 450 ppm/4H <sup>[2]</sup> Oral (rat) LD50: 250 mg/kg <sup>[2]</sup> TOXICITY  dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup> Inhalation (rat) LC50: 10000 ppm/5 h.d <sup>[2]</sup> Oral (rat) LD50: 5207.2 mg/kg <sup>[1]</sup>	IRRITATION  Not Available  IRRITATION  Not Available  IRRITATION  * [Union Carbide]  Eye (rabbit): 100 mg SEVERE  Eye (rabbit): 100 mg/24h-moderate  Skin (rabbit): 500 mg, open; mild  IRRITATION  Eye (rabbit) 230 mg mild  Eye (rabbit) 500 mg/24 h mild  Eye (rabbit): 100 mg SEVERE  Skin (rabbit): 500 mg open - mild  IRRITATION  IRRITATION  IRRITATION  IRRITATION  IRRITATION		
aromatic hydrocarbons  ethylene glycol monobutyl ether  propylene glycol monomethyl ether - alpha isomer	TOXICITY  Not Available  TOXICITY  Oral (bird) LD50: >2250 mg/kg <sup>[2]</sup> TOXICITY  dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup> Inhalation (rat) LC50: 450 ppm/4H <sup>[2]</sup> Oral (rat) LD50: 250 mg/kg <sup>[2]</sup> TOXICITY  dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup> Inhalation (rat) LC50: 10000 ppm/5 h.d <sup>[2]</sup> Oral (rat) LD50: 5207.2 mg/kg <sup>[1]</sup> TOXICITY  Not Available	IRRITATION Not Available  IRRITATION Not Available  IRRITATION  * [Union Carbide]  Eye (rabbit): 100 mg SEVERE  Eye (rabbit): 100 mg/24h-moderate  Skin (rabbit): 500 mg, open; mild  IRRITATION  Eye (rabbit) 230 mg mild  Eye (rabbit) 500 mg/24 h mild  Eye (rabbit): 100 mg SEVERE  Skin (rabbit): 500 mg open - mild		

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Acute Toxicity	×	Carcinogenicity	0
Skin Irritation/Corrosion	<b>*</b>	Reproductivity	0
Serious Eye Damage/Irritation	<b>✓</b>	STOT - Single Exposure	<b>✓</b>
Respiratory or Skin sensitisation	0	STOT - Repeated Exposure	0
Mutagenicity	0	Aspiration Hazard	0

Legend:

— Data available but does not fill the criteria for classification Data required to make classification available

N - Data Not Available to make classification

### **SECTION 12 ECOLOGICAL INFORMATION**

### **Toxicity**

Ingredient	Endpoint	Test Duration	Species	Value	Source
ethylene glycol monobutyl ether	LC50	96	Fish	222.042mg/L	3
ethylene glycol monobutyl ether	EC50	48	Crustacea	164mg/L	2
ethylene glycol monobutyl ether	EC50	96	Algae or other aquatic plants	720mg/L	2
ethylene glycol monobutyl ether	EC0	24	Crustacea	>=1000mg/L	4
ethylene glycol monobutyl ether	EC10	24	Algae or other aquatic plants	>1000mg/L	4
ethylene glycol monobutyl ether	EC100	24	Crustacea	>1000mg/L	4
propylene glycol monomethyl ether - alpha isomer	LC50	96	Fish	>=1000mg/L	2
propylene glycol monomethyl ether - alpha isomer	EC50	48	Crustacea	>500mg/L	2
propylene glycol monomethyl ether - alpha isomer	EC50	72	Algae or other aquatic plants	>500mg/L	2
propylene glycol monomethyl ether - alpha isomer	EC0	3	Crustacea	=500mg/L	1
propylene glycol monomethyl ether - alpha isomer	EC100	3	Crustacea	>500mg/L	1

For Propylene Glycol Ethers: log Kow's range from 0.309 for TPM to 1.523 for DPnB. Calculated BCFs range from 1.47 for DPnB to 3.16 for DPMA and TPM, indicating low bioaccumulation. Henry's Law Constants are low for all category members, ranging from 5.7 x 10-9 atm-m3/mole for TPM to 2.7 x10-9 atm-m3/mole for PnB.

Environmental Fate: Most are liquids at room temperature and all are water-soluble.

Atmospheric Fate: In air, the half-life due to direct reactions with photochemically generated hydroxyl radicals, range from 2.0 hours for TPM to 4.6 hours for PnB.

Aquatic/Terrestrial Fate: Most propylene glycol ethers are likely to partition roughly equally into the soil and water compartments in the environment with small to negligible amounts remaining in other environmental compartments (air, sediment, and aquatic biota). In water, most members of this family are "readily biodegradable" under aerobic conditions. In soil, biodegradation is rapid for

Ecotoxicity: Propylene glycol ethers are unlikely to persist in the environment. Acute aquatic toxicity testing indicates low toxicity for both ethers and acetates. For Aromatic Substances Series:

Environmental Fate: Large, molecularly complex polycyclic aromatic hydrocarbons, or PAHs, are persistent in the environment longer than smaller PAHs.

Atmospheric Fate: PAHs are 'semi-volatile substances' which can move between the atmosphere and the Earth's surface in repeated, temperature-driven cycles of deposition and volatilization. Terrestrial Fate: BTEX compounds have the potential to move through soil and contaminate ground water, and their vapors are highly flammable and explosive.

Ecotoxicity - Within an aromatic series, acute toxicity increases with increasing alkyl substitution on the aromatic nucleus. The order of most toxic to least in a study using grass shrimp and brown shrimp was dimethylnaphthalenes > methylnaphthalenes > naphthalenes > naphthalene resources in strong sunlight are at more risk than those that are not. PAHs in general are more frequently associated with chronic risks.

For Ethelene Glycol Monoalkyl Ethers and their Acetates:

log BCF: 0.463 to 0.732;

LC50: 94 to > 5000 mg/L. (aquatic species).

Members of this category include ethylene glycol propyl ether (EGPE), ethylene glycol butyl ether (EGBE) and ethylene glycol hexyl ether (EGHE).

Environmental Fate: Aquatic Fate - The ethers possess no functional groups that are readily subject to hydrolysis in the presence of waters. The acetates possess an ester group that hydrolyses in neutral ambient water under abiotic conditions. Will partition predominately to water and, to a lesser extent, to air and soil. Soil - Highly mobile in soil.

Ecotoxicity: Ethelene glycol monoalkyl ethers and their acetates are readily biodegradable. The physical chemistry and environmental fate properties indicate that category members will not persist or bioconcentrate in the environment. Glycol ether acetates do not hydrolyze rapidly into their corresponding glycol ethers in water under environmental conditions. Glycol ether acetates are not acutely toxic to fish, specifically, zebra fish, rainbow trout and water fleas. Population changes were noted in freshwater and green algae species.

log Koc : 2.05-3.08; Koc : 25.4-204; Half-life (hr) air : 0.24-42; Half-life (hr) H2O surface water : 24-672; Half-life (hr) H2O ground : 336-8640; Half-life (hr) soil : 52-672; Henry's Pa m3 /mol : 637-879; Henry's atm m3 /mol - 7.68E-03; BOD 5 if unstated - 1.4,1%; COD - 2.56,13% ThOD - 3.125 : BCF : 23; log BCF : 1.17-2.41.

Environmental Fate: Most xylenes released to the environment will occur in the atmosphere and volatilisation is the dominant environmental fate process. Soil - Xylenes are expected to have moderate mobility in soil evaporating rapidly from soil surfaces. The extent of the degradation is expected to depend on its concentration, residence time in the soil, the nature of the soil, and whether resident microbial populations have been acclimated. Xylene can remain below the soil surface for several days and may travel through the soil profile and enter groundwater. Soil and water microbes may transform it into other, less harmful compounds, although this happens slowly. It is not clear how long xylene remains trapped deep underground in soil or groundwater, but it may be months or years

Atmospheric Fate: Xylene evaporates quickly into the air from surface soil and water and can remain in the air for several days until it is broken down by sunlight into other less harmful chemicals. In the ambient atmosphere, xylenes are expected to exist solely in the vapour phase. Xylenes are degraded in the atmosphere with an estimated atmospheric lifetime of about 0.5 to 2 days. Xylene

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may contribute to photochemical smog formation, p-Xylene has a moderately high photochemical reactivity under smog conditions, higher than the other xylene isomers. The photooxidation of p-xylene results in the production of carbon monoxide, formaldehyde, glyoxal, methylglyoxal, 3-methylbenzylnitrate, m-tolualdehyde, 4-nitro-3-xylene, 5-nitro-3-xylene, 2,6-dimethyl-p-benzoquinone, 2,4-dimethylphenol, 6-nitro-2,4-dimethylphenol, 2,6-dimethylphenol, and 4-nitro-2,6-dimethylphenol.

Aquatic Fate: p-xylene may adsorb to suspended solids and sediment in water and is expected to volatilise from water surfaces. Estimated volatilisation half-lives for a model river and model lake are 3 hours and 4 days, respectively. Measurements taken from goldfish, eels and clams indicate that bioconcentration in aquatic organisms is low. Photo-oxidation in the presence of humic acids may play an important role in the abiotic degradation of p-xylene. p-Xylene is biodegradable and has been observed to degrade in pond water however; it is unclear if it degrades in surface waters. p-Xylene has been observed to degrade in anaerobic and aerobic groundwater; however, it is known to persist for many years in groundwater, at least at sites where the concentration might have been quite high. Ecotoxicity: Xylenes are slightly toxic to fathead minnow, rainbow trout and bluegill and not acutely toxic to water fleas. For Photobacterium phosphoreum EC50 (24 h): 0.0084 mg/L. and Gammarus lacustris LC50 (48 h): 0.6 mg/L.

For Glycol Ethers:

Environmental Fate: Several glycol ethers have been shown to biodegrade however; biodegradation slows as molecular weight increases. No glycol ethers that have been tested demonstrate marked resistance to biodegradative processes. No glycol ethers that have been tested demonstrate marked resistance to biodegradative processes

Atmospheric Fate: Upon release to the atmosphere by evaporation, high boiling glycol ethers are estimated to undergo photo-degradation (atmospheric half lives = 2.4-2.5 hr). Aquatic Fate: In water, glycol ethers undergo biodegradation (typically 47-92% after 8-21 days) and have a low potential for bioaccumulation (log Kow ranges from -1.73 to +0.51).

Ecotoxicity: Tri- and tetra ethylene glycol ethers are "practically non-toxic" to aquatic species. No major differences are observed in the order of toxicity going from the methyl- to the butyl ethers. Glycols exert a high oxygen demand for decomposition and once released to the environment death of aquatic organisms occurs if dissolved oxygen is depleted.

DO NOT discharge into sewer or waterways.

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
ethylene glycol monobutyl ether	LOW (Half-life = 56 days)	LOW (Half-life = 1.37 days)
propylene glycol monomethyl ether - alpha isomer	LOW (Half-life = 56 days)	LOW (Half-life = 1.7 days)

#### Bioaccumulative potential

Ingredient	Bioaccumulation
ethylene glycol monobutyl ether	LOW (BCF = 2.51)
propylene glycol monomethyl ether - alpha isomer	LOW (BCF = 2)

## Mobility in soil

	Ingredient	Mobility
	ethylene glycol monobutyl ether	HIGH (KOC = 1)
	propylene glycol monomethyl ether - alpha isomer	HIGH (KOC = 1)

## **SECTION 13 DISPOSAL CONSIDERATIONS**

## Waste treatment methods

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked A Hierarchy of Controls seems to be common - the user should investigate:

- Reduction
- ▶ Reuse
- Recycling
- Disposal (if all else fails)

#### Product / Packaging disposa

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.

- ▶ DO NOT allow wash water from cleaning or process equipment to enter drain
- It may be necessary to collect all wash water for treatment before disposal.
- ▶ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Where in doubt contact the responsible authority.
- Recycle wherever possible
- Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
- ▶ Dispose of by: burial in a land-fill specifically licenced to accept chemical and / or pharmaceutical wastes or Incineration in a licenced apparatus (after admixture with suitable combustible material).
- ▶ Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

## **SECTION 14 TRANSPORT INFORMATION**

## Labels Required



Marine Pollutant	

**HAZCHEM** 

## Land transport (ADG)

**UN number** 

1993

NO

•3Y

Version No: **4.1.1.1** 

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Packing group	ni.
UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (contains aromatic hydrocarbons)
Environmental hazard	No relevant data
Transport hazard class(es)	Class 3 Subrisk Not Applicable
Special precautions for user	Special provisions 223 274  Limited quantity 5 L

## Air transport (ICAO-IATA / DGR)

## Sea transport (IMDG-Code / GGVSee)

• •	,
UN number	1993
Packing group	
UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (contains aromatic hydrocarbons)
Environmental hazard	Not Applicable
Transport hazard class(es)	IMDG Class 3 IMDG Subrisk Not Applicable
Special precautions for user	EMS Number F-E , S-E Special provisions 223 274 955 Limited Quantities 5 L

## Transport in bulk according to Annex II of MARPOL 73 / 78 and the IBC code

Source	Ingredient	Pollution Category
IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk	propylene glycol monomethyl ether - alpha isomer	Z

## **SECTION 15 REGULATORY INFORMATION**

## Safety, health and environmental regulations / legislation specific for the substance or mixture

Not Applicable

## AROMATIC HYDROCARBONS(63231-51-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

## ETHYLENE GLYCOL MONOBUTYL ETHER(111-76-2) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards Australia Inventory of Chemical Substances (AICS)

Australia Hazardous Substances Information System - Consolidated Lists International Agency for Research on Cancer (IARC) - Agents Classified by the IARC

Monographs

## PROPYLENE GLYCOL MONOMETHYL ETHER - ALPHA ISOMER(107-98-2) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards

Australia Inventory of Chemical Substances (AICS)

Australia Hazardous Substances Information System - Consolidated Lists

• Not Applicable

National Inventory	Status
Australia - AICS	Y

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N (aromatic hydrocarbons) Canada - DSL Canada - NDSL N (propylene glycol monomethyl ether - alpha isomer; aromatic hydrocarbons; ethylene glycol monobutyl ether) China - IECSC Europe - EINEC / ELINCS / N (aromatic hydrocarbons) NI P Japan - ENCS N (aromatic hydrocarbons) Korea - KECI N (aromatic hydrocarbons) New Zealand - NZIoC Υ Υ Philippines - PICCS USA - TSCA N (aromatic hydrocarbons) Y = All ingredients are on the inventory
N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets) Legend:

### **SECTION 16 OTHER INFORMATION**

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chernwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at:

www.chemwatch.net

The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

#### **Definitions and abbreviations**

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit.

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL: No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors

BEI: Biological Exposure Index

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