



# Safety Data Sheet

according to Australia WHS and NZ HSNO Regulations

Revision: 04.02.2021

Trade name: Rislone Gas)MO6VWHP Treatment - Left Side

(Cont'd. from page 1)

- **Label elements**
- **Hazard pictograms**



GHS02 GHS07

- **Signal word** Warning

- **Hazard statements**

H226 Flammable liquid and vapour.  
 H302 Harmful if swallowed.  
 H312 Harmful in contact with skin.  
 H332 Harmful if inhaled.  
 H315 Causes skin irritation.  
 H319 Causes serious eye irritation.

- **Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
 P233 Keep container tightly closed.  
 P240 Ground/bond container and receiving equipment.  
 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.  
 P264 Wash thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P271 Use only outdoors or in a well-ventilated area.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
 P330 Rinse mouth.  
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P332+P313 If skin irritation occurs: Get medical advice/attention.  
 P362+P364 Take off contaminated clothing and wash it before reuse.  
 P337+P313 If eye irritation persists: Get medical advice/attention.  
 P370+P378 In case of fire: Use to extinguish: CO<sub>2</sub>, powder or water spray.  
 P403+P235 Store in a well-ventilated place. Keep cool.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Other hazards** There are no other hazards not otherwise classified that have been identified.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

## 3 Composition/information on ingredients

- **Chemical characterisation: Mixtures**

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· **Components:**

CAS: 111-76-2 EINECS: 203-905-0	2-butoxyethanol ----- ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319 Flam. Liq. 4, H227	>60%
CAS: 67-63-0 EINECS: 200-661-7	Propan-2-ol ----- ⚠ Flam. Liq. 2, H225 ⚠ Eye Irrit. 2, H319; STOT SE 3, H336 Acute Tox. 5, H333	<10%

· **Additional information:** For the wording of the listed Hazard Statements refer to section 16.

## 4 First aid measures

· **Description of first aid measures**

· **After inhalation:**

Supply fresh air; consult doctor in case of complaints.  
Provide oxygen treatment if affected person has difficulty breathing.

· **After skin contact:**

Immediately remove any clothing soiled by the product.  
Immediately wash with water and soap and rinse thoroughly.  
Seek medical treatment in case of complaints.

· **After eye contact:**

Remove contact lenses if worn.  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:**

Rinse out mouth and then drink plenty of water.  
Do not induce vomiting; call for medical help immediately.  
A person vomiting while lying on their back should be turned onto their side.

· **Most important symptoms and effects, both acute and delayed**

Coughing  
Dizziness  
Breathing difficulty  
Causes serious eye irritation.  
Causes skin irritation.

· **Hazards:** Harmful if swallowed, in contact with skin or if inhaled.

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

## 5 Firefighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

Foam  
Alcohol resistant foam  
Gaseous extinguishing agents  
Carbon dioxide  
Fire-extinguishing powder  
Water

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- **For safety reasons unsuitable extinguishing agents:** No further relevant information available.
- **Special hazards arising from the substance or mixture**  
In case of fire, the following can be released:  
Carbon monoxide, carbon dioxide.
- **Advice for firefighters**
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Wear fully protective suit.
- **Additional information:**  
Use large quantities of foam as it is partially destroyed by the product.  
Cool endangered receptacles with water spray.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Keep away from ignition sources.  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation
- **Environmental precautions**  
Do not allow to enter sewers/ surface or ground water.  
Prevent from spreading (e.g. by damming-in or oil barriers).  
Inform respective authorities in case of seepage into water course or sewage system.
- **Methods and material for containment and cleaning up**  
Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders).  
Remove from the water surface (e.g. skim or suck off).  
Send for recovery or disposal in suitable receptacles.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Keep out of reach of children.  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.  
Avoid breathing mist/vapours/spray.  
Avoid contact with the eyes and skin.
- **Information about fire - and explosion protection:**  
Keep respiratory protective device available.  
Keep ignition sources away - Do not smoke.
- **Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:**  
Avoid storage near extreme heat, ignition sources or open flame.  
Store in cool, dry conditions in well sealed receptacles.

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- **Information about storage in one common storage facility:**  
Store away from foodstuffs.  
Store away from oxidising agents.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

### 111-76-2 2-butoxyethanol

WES (Australia)	Short-term value: 242 mg/m <sup>3</sup> , 50 ppm Long-term value: 96.9 mg/m <sup>3</sup> , 20 ppm Sk
PEL (USA)	Long-term value: 240 mg/m <sup>3</sup> , 50 ppm Skin
REL (USA)	Long-term value: 24 mg/m <sup>3</sup> , 5 ppm Skin
TLV (USA)	Long-term value: 97 mg/m <sup>3</sup> , 20 ppm BEI
WES (New Zealand)	Long-term value: 121 mg/m <sup>3</sup> , 25 ppm skin

### 67-63-0 Propan-2-ol

WES (Australia)	Short-term value: 1230 mg/m <sup>3</sup> , 500 ppm Long-term value: 983 mg/m <sup>3</sup> , 400 ppm
PEL (USA)	Long-term value: 980 mg/m <sup>3</sup> , 400 ppm
REL (USA)	Short-term value: 1225 mg/m <sup>3</sup> , 500 ppm Long-term value: 980 mg/m <sup>3</sup> , 400 ppm
TLV (USA)	Short-term value: 984 mg/m <sup>3</sup> , 400 ppm Long-term value: 492 mg/m <sup>3</sup> , 200 ppm BEI
WES (New Zealand)	Short-term value: 1230 mg/m <sup>3</sup> , 500 ppm Long-term value: 983 mg/m <sup>3</sup> , 400 ppm

- **Ingredients with biological limit values:**

### 111-76-2 2-butoxyethanol

BEI (USA)	200 mg/g creatinine Medium: urine Time: end of shift Parameter: Butoxyacetic acid with hydrolysis
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### 67-63-0 Propan-2-ol

BEI (USA)	40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific)
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- **Exposure controls**
- **General protective and hygienic measures:**

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Keep away from foodstuffs, beverages and feed.  
 Immediately remove all soiled and contaminated clothing.  
 Wash hands before breaks and at the end of work.  
 Do not inhale gases / fumes / aerosols.  
 Avoid contact with the eyes and skin.

· **Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation.  
 Use suitable respiratory protective device when aerosol or mist is formed.  
 For spills, respiratory protection may be advisable.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· **Eye protection:**



Safety glasses

· **Body protection:** Protective work clothing

· **Limitation and supervision of exposure into the environment:**

No further relevant information available.

· **Risk management measures:** No further relevant information available.

## 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **Appearance**

Form:	Liquid
Colour:	Light yellow
· Odour:	Petroleum-like
· Odour threshold:	Not determined.

· **pH-value:** Not determined.

· **Melting point/freezing point:** Not determined.

· **Initial boiling point and boiling range:** Not determined.

· **Flash point:** 40.2 °C (104.4 °F)

· **Flammability (solid, gas):** Not applicable.

· **Auto/Self-ignition temperature:** Not determined.

· **Decomposition temperature:** Not determined.

· **Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· **Explosion limits**

Lower:	Not determined.
Upper:	Not determined.

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· <b>Oxidising properties</b>	Non-oxidising.
· <b>Vapour pressure:</b>	Not determined.
· <b>Density:</b>	
Relative density at 25 °C (77 °F):	0.78-0.80
Vapour density:	Not determined.
Evaporation rate:	Not determined.
· <b>Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity</b>	
Dynamic:	Not determined.
Kinematic:	Not determined.
· <b>Other information</b>	No further relevant information available.

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
Keep away from heat and direct sunlight.  
Avoid open flame, ignition sources, contact with incompatible substances.
- **Possibility of hazardous reactions**  
Flammable liquid and vapour.  
Used empty containers may contain product gases which form explosive mixtures with air.  
Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised.  
Reacts with oxidising agents.
- **Conditions to avoid** Excessive heat.
- **Incompatible materials** Oxidisers
- **Hazardous decomposition products** Carbon monoxide and carbon dioxide

## 11 Toxicological information

### · Information on toxicological effects

#### · Acute toxicity:

Harmful if swallowed.  
Harmful in contact with skin.  
Harmful if inhaled.

#### · LD/LC50 values relevant for classification:

##### ATE (Acute Toxicity Estimates)

Oral	LD50	1591 mg/kg (rat)
Dermal	LD50	1076-2151 mg/kg (rat)
Inhalative	LC50/4h	11.5 mg/l

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### 111-76-2 2-butoxyethanol

Oral	LD50	1480 mg/kg (rat)
Dermal	LD50	1001-2000 mg/kg (rat) (Estimated)
Inhalative	LC50/4h	450 ppm (rat)

- **Primary irritant effect**
- **Skin corrosion/irritation:** Irritant to skin and mucous membranes.
- **Serious eye damage/irritation:** Causes eye irritation.
- **Respiratory or skin sensitisation:** No sensitising effects known.
- **IARC (International Agency for Research on Cancer):**  
Present in trace quantities.

100-41-4	Ethylbenzene	2B
91-20-3	Naphthalene	2B

- **Probable routes of exposure:**  
Ingestion.  
Inhalation.  
Eye contact.  
Skin contact.
- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** Does not accumulate in organisms.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Avoid transfer into the environment.  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**  
Contact waste processors for recycling information.

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The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

· <b>UN-Number</b>	
· <b>DOT</b>	NA1993
· <b>ADG, IMDG, IATA</b>	UN1993
· <b>UN proper shipping name</b>	
· <b>DOT</b>	Combustible liquid, n.o.s. (Isopropanol, 2-butoxyethanol)
· <b>ADG, IMDG, IATA</b>	FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL, 2-butoxyethanol)
· <b>Transport hazard class(es)</b>	
· <b>DOT</b>	
	
· <b>Class</b>	3
· <b>Label</b>	3
· <b>ADR/RID/ADN</b>	
	
· <b>Class</b>	3 (F1)
· <b>Label</b>	3
· <b>IMDG, IATA</b>	
	
· <b>Class</b>	3
· <b>Label</b>	3
· <b>Packing group</b>	
· <b>DOT, ADG, IMDG, IATA</b>	III
· <b>Environmental hazards:</b>	
· <b>Marine pollutant:</b>	No
· <b>Special precautions for user</b>	Warning: Flammable liquids.

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- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>· <b>Danger code (Kemler):</b> 30</li> <li>· <b>EMS Number:</b> F-E, S-E</li> </ul>   |  |
| <ul style="list-style-type: none"> <li>· <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b> Not applicable.</li> </ul>  |  |
| <ul style="list-style-type: none"> <li>· <b>Transport/Additional information:</b></li> <li>· <b>DOT</b> Classified as combustible under US DOT regulations. Labeling is only required for single packages 119 US gal / 450 L.</li> </ul> |  |
| <ul style="list-style-type: none"> <li>· <b>ADR/RID/ADN</b></li> </ul>   |  |
|  Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L.  |  |
| <ul style="list-style-type: none"> <li>· <b>Transport category</b> 3</li> <li>· <b>Tunnel restriction code</b> D/E</li> </ul>  |  |
| <ul style="list-style-type: none"> <li>· <b>IMDG</b></li> </ul>  |  |
|  Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L.   |  |
| <ul style="list-style-type: none"> <li>· <b>IATA</b></li> </ul>  |  |
|  Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each / 10 L net.  |  |

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **IARC (International Agency for Research on Cancer)**  
Present in trace quantities.

97-56-3	4-o-tolylazo-o-toluidine	2B
100-41-4	Ethylbenzene	2B
91-20-3	Naphthalene	2B

- **Australia**

- **Australian Inventory of Chemical Substances**

All ingredients are listed.

- **Standard for the Uniform Scheduling of Medicines and Poisons**

Hydrocarbon Liquids

S6

- **New Zealand HSR002583**

- **New Zealand Inventory of Chemicals (NZIOC)**

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All ingredients are listed.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### • Relevant phrases

H225 Highly flammable liquid and vapour.  
 H227 Combustible liquid.  
 H302 Harmful if swallowed.  
 H312 Harmful in contact with skin.  
 H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H332 Harmful if inhaled.  
 H333 May be harmful if inhaled.  
 H336 May cause drowsiness or dizziness.

### • Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
 IMDG: International Maritime Code for Dangerous Goods  
 DOT: US Department of Transportation  
 IATA: International Air Transport Association  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bio-accumulable, Toxic  
 vPvB: very Persistent and very Bioaccumulative  
 Flam. Liq. 2: Flammable liquids – Category 2  
 Flam. Liq. 3: Flammable liquids – Category 3  
 Flam. Liq. 4: Flammable liquids – Category 4  
 Acute Tox. 4: Acute toxicity – Category 4  
 Acute Tox. 5: Acute toxicity – Category 5  
 Skin Irrit. 2: Skin corrosion/irritation – Category 2  
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A  
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

### • Sources

Website, European Chemicals Agency ([echa.europa.eu](http://echa.europa.eu))  
 Website, US EPA Substance Registry Services ([ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do](http://ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do))  
 Website, Chemical Abstracts Registry, American Chemical Society ([www.cas.org](http://www.cas.org))  
 Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6  
 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.  
 Safety Data Sheets, Individual Manufacturers

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