

Hazardous ingredients

<u>Name</u>	<u>CAS no.</u>	<u>Proportion</u>	<u>Hazard symbol</u>	<u>Risk phrase</u>
Butyl Glycol Ether	111-76-2	LOW	Xi	R36/38
Quaternary Ammonium Compounds	107028-70-6	V LOW	Xi	R36/38
Sodium Hydroxide	1310-73-2	V LOW	Xi	R36/38

KEY: Proportion, (wt %) V HIGH >60, HIGH 30 - 60, MED 10 –29, LOW 1-9, V LOW <1

4. First Aid Measures

Ingestion:	Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.
Skin:	Wash off with soap and plenty of water.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
First Aid Facilities	Maintain eyewash and safety shower in work area.
Advice to Doctor	Treat symptomatically.
Other Information	For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26 and New Zealand 0800 764 766) or a doctor.

5. Fire Fighting Measures

Suitable extinguishing Media Use extinguishing media most appropriate for the surrounding fire such as water, foam or dry agent (carbon dioxide, dry chemical powder). If safe to do so, move undamaged containers from the fire area. If a significant quantity (>200L) of this product is involved in a fire, call the fire brigade.

Specific hazards arising from the chemical There is no risk of an explosion from this product under normal circumstances if it is involved in a fire. This product is likely to decompose only after heating to dryness, followed by further strong heating.

Precautions in connection with fire Wear SCBA and chemical splash suit. Fully encapsulating, gas-tight suits should be worn for maximum protection.

6. Accidental Release Measures

Personal Precautions Use personal protective equipment. Avoid breathing mist . Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

Personal Protection Wear protective clothing specified for normal operations (see Section 8)

Clean-up Methods

Small Spillages Minor spills do not require special clean up measures or emergency procedures. Wear recommended personal protective equipment outlined in Section 8 when containing any spillage.

Large Spillages Seek expert advice on handling and disposal.

Environmental Precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains or waterways

7. Handling and Storage

Precautions for Safe Handling Product is safe to handle under normal conditions of use.

Conditions for safe storage Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be resealed and kept upright to prevent leakage.

Incompatible products None known

Incompatible materials None known

8. Exposure Controls/Personal Protection

SWA exposure limits

<u>Name</u>	<u>STEL</u> (mg/m ³)	<u>TWA</u> (mg/m ³)
Butyl Glycol Ether	242	96.6
Quaternary Ammonium Compounds	Not Set	Not Set
Sodium Hydroxide	-	2

STEL - Short Term Exposure Limit, TWA – Time Weighted Average

Appropriate engineering controls	In industrial situations maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.
Personal Protective Equipment	Final choice of personal protective equipment will depend on individual circumstances and/or according to risk assessments undertaken.
Respiratory Protection	Usually, no respirator is necessary when using this product.
Eye Protection	The use of safety glasses with side shield protection is recommended when using this product. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.
Hand Protection	Avoid skin contact when removing gloves from hands; do not touch the gloves outer surface. Hand protection should comply with AS 2161,
Footwear	Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.
Hygiene Measures	Do not eat, drink or smoke in work areas. Wash hands thoroughly after handling this material. Maintain good housekeeping.

9. Physical and Chemical Properties

Appearance	Thin, clear, red-coloured liquid
Odour	Characteristic (unscented)
Melting Point	~0 °C
Boiling Point	~ 100 °C
Flash point	Not applicable
Vapour Pressure	Not determined
Solubility	Miscible with water in all proportions.
Specific Gravity	1.0 g/cm ³ @ 20 °C
pH	11.0 to 11.5 (as supplied)

Viscosity	Not determined
Percent volatile	> 90 %
Flammability	Non flammable

10. Stability and reactivity

Chemical stability	Stable under normal conditions of use.
Conditions to avoid	No special conditions. Refer to storage conditions in Section 7.
Incompatible materials	None known.
Hazardous decomposition products	Carbon monoxide, carbon dioxide and possibly oxides of nitrogen
Hazardous reactions	None.
Hazardous polymerization	Will not occur.

11. Toxicological Information

Local Effects	Irritant: eye, skin.
Target Organs	Eyes and skin.

12. Ecological Information

Ecotoxicity	Data from 50% quaternary ammonium compound: Fish Toxicity (<i>Zebra Fish</i>): LC50, 1-10 mg/L % Biological elimination: 35-70% [Method: OECD 302B]
Persistence and Degradability	Biodegradable.

13. Disposal Considerations

Disposal	The small quantities contained in wash solutions can be handled by conventional sewage, septic and grey water systems. To dispose of large quantities of undiluted product, refer to State Land Waste Management Authority. Containers should be emptied as completely as practical before disposal.
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14. Transport information

ADG Code	This product is NOT a Dangerous Good. No special transport conditions are necessary.
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15. Regulatory information

AICS	All ingredients listed in the Australian Inventory of Chemical Substances (AICS)
GHS Classification	Skin Irritation Category 2 Eye Irritation Category 2
SUSMP	None allocated
ADG Code	None allocated

16. Other Information

Date of preparation or last revision of SDS - 1/03/2020 Reason for issue: Format change

This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified or altered versions. If you are an employer it is your duty to tell your employees, and any others that may be affected, of any hazards described in this sheet and of any precautions that should be taken. Safety Data Sheets are updated frequently. Please ensure you have a current copy.