



# SAFETY DATA SHEET

According to Work Health and Safety Regulations and Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice

Revision Date 03/08/2017  
Date of the previous version --

Version 1  
AUS

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** Eclipse™ Extreme

**Recommended use** Fire extinguishing agent.

**Uses advised against** No information available.

**Supplier** Sandvik Mining Australia  
Daws Road Melrose Park  
Adelaide South Australia  
email: firesuppressionsales@sandvik.com

**Emergency telephone number** NSW Poisons Information Centre  
Telephone number: 131126 (available 24/7)

## 2. HAZARDS IDENTIFICATION

**GHS Classification** Not classified.

**GHS Label elements, including precautionary statements**

**Signal Word** Not applicable.

**Hazard Statements** Not applicable.

**Precautionary Statements** Not applicable.

**Environmental hazard** Contains no substances known to be hazardous for the environment. See Section 12 for additional Ecological Information.

**Hazards Not Otherwise Classified (HNOC)** None known.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical nature** Mixture

Chemical Name	CAS-No	Weight %
Potassium acetate	127-08-2	>45
Hydrotrope	PROPRIETARY	<1
Flourosurfactant	PROPRIETARY	<1
D-glucopyranose, oligomers, decyl octyl glycosides	68515-73-1	<1
2-(2-butoxyethoxy)ethanol	112-34-5	<1

#### 4. FIRST AID MEASURES

<b>General advice</b>	No hazards which require special first aid measures.
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately if symptoms occur.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.
<b>Ingestion</b>	Clean mouth with water and afterwards drink plenty of water. Get medical attention immediately if symptoms occur.
<b>Inhalation</b>	Move victim to fresh air. Get medical attention immediately if symptoms occur.
<b>Main symptoms</b>	If inhaled: Coughing and/or wheezing. If in eyes: May cause redness and tearing. If on skin: Redness.
<b>Notes to physician</b>	Treat symptomatically.
<b>Protection of first-aiders</b>	Use personal protective equipment. Avoid contact with skin, eyes and clothing.

#### 5. FIRE FIGHTING MEASURES

<b>Flammable properties</b>	Not flammable.
<b>Flash point</b>	Not applicable.
<b>Autoignition temperature</b>	Not applicable.
<b>Suitable Extinguishing Media</b>	The product itself does not burn. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Unsuitable Extinguishing Media</b>	None known.
<b>Special Hazard</b>	Thermal decomposition can lead to release of irritating and toxic gases and vapours ( Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ), Metal oxides, Nitrogen oxides (NO <sub>x</sub> ) ).
<b>Protective Equipment and Precautions for Firefighters</b>	Wear self-contained breathing apparatus and protective suit.
<b>Fire fighting measures</b>	Dilute toxic gases with water spray.
<b>Sensitivity to Mechanical Impact</b>	None.
<b>Sensitivity to Static Discharge</b>	None.

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	Ensure adequate ventilation. Avoid contact with skin, eyes and inhalation of vapours. Dispose of in accordance with local regulations.
<b>Environmental precautions</b>	Should not be released into the environment.
<b>Methods for cleaning up</b>	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect in closed and suitable containers for disposal.

## 7. HANDLING AND STORAGE

<b>Precautions for safe handling</b>	Handle in accordance with good industrial hygiene and safety practice.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in accordance with local regulations. Keep in a dry, cool and well-ventilated place. Keep away from : Strong acids, Strong oxidising agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Exposure Limits</b>	Contains no substances with occupational exposure limit values.
<b>Biological monitoring</b>	No information available.
<b>Context and limitations of control banding</b>	No information available.
<b>Recommended monitoring procedures</b>	No information available.
<b>Appropriate engineering controls</b>	Ensure adequate ventilation, especially in confined areas.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>Eye protection</b>	Safety glasses with side-shields.
<b>Hand Protection</b>	Nitrile rubber (NBR): > 0.4 mm. Break through time: >8h .
<b>Skin and body protection</b>	Long sleeved clothing.
<b>Respiratory protection</b>	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators: Half mask.
<b>Recommended Filter Type</b>	A
<b>Hygiene Measures</b>	Handle in accordance with good industrial hygiene and safety practice.
<b>Environmental Exposure Controls</b>	The product should not be allowed to enter drains, water courses or the soil.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state @20°C</b>	Liquid ( Crystalline Powder when shipped )
<b>Appearance</b>	Foam
<b>Colour</b>	Clear
<b>Odour</b>	Odourless
<b>pH</b>	8.95
<b>Melting/freezing point</b>	Not applicable
<b>Boiling point/boiling range</b>	Not applicable
<b>Flash point</b>	Not applicable.
<b>Evaporation rate</b>	No information available
<b>Flammability (solid, gas)</b>	No information available
<b>Flammability Limits in Air</b>	Not flammable
<b>Vapour pressure</b>	<10mm Hg (@20 °C)
<b>Vapour density</b>	No information available
<b>Relative density</b>	No information available
<b>Solubility</b>	
<b>Water solubility</b>	Soluble
<b>Partition Coefficient (n-octanol/water)</b>	No information available
<b>Autoignition temperature</b>	Not applicable.

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under normal conditions.
<b>Hazardous Reactions</b>	None known.
<b>Conditions to Avoid</b>	No information available.
<b>Materials to Avoid</b>	Strong acids. Strong oxidising agents.
<b>Hazardous Decomposition Products</b>	Thermal decomposition can lead to release of irritating and toxic gases and vapours ( Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ), Metal oxides, Nitrogen oxides (NO <sub>x</sub> ) ).
<b>Reactivity</b>	Not reactive under recommended storage and handling conditions.

## 11. TOXICOLOGICAL INFORMATION

<b>Acute toxicity</b>	
<b>Ingestion</b>	No known effect.
<b>Skin contact</b>	No known effect.
<b>Inhalation</b>	No known effect.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Potassium acetate	3250 mg/kg ( Rat )		
2-(2-butoxyethoxy)ethanol	3384 mg/kg ( Rat )	2700 mg/kg ( Rabbit )	

<b>Skin corrosion/irritation</b>	No known effect.
<b>Serious eye damage/irritation</b>	No known effect.
<b>Respiratory or skin sensitisation</b>	No known effect.
<b>Germ cell mutagenicity</b>	Not known to cause heritable genetic damage.
<b>Carcinogenicity</b>	Contains no ingredient listed as a carcinogen.
<b>Reproductive toxicity</b>	Not known to cause birth defects or have a deleterious effect on a developing fetus. Not known to adversely affect reproductive functions and organs.
<b>STOT-single exposure</b>	No known effect.
<b>STOT-repeated exposure</b>	No known effect.
<b>Aspiration hazard</b>	No known effect.
<b>Routes of Exposure</b>	No information available.
<b>Most important symptoms/effects, acute and delayed</b>	If inhaled: Coughing and/or wheezing. If in eyes: May cause redness and tearing. If on skin: Redness.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity effects** Contains no substances known to be hazardous for the environment.

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
2-(2-butoxyethoxy)ethanol	EC50: >100 mg/L Desmodesmus subspicatus 96 h	LC50: 1300 mg/L Lepomis macrochirus 96 h static		EC50: 2850 mg/L Daphnia magna 24 h EC50: >100 mg/L Daphnia magna 48 h
Potassium acetate	EC50: >1000 mg/L 72h Skeletonema costatum	LC50: >992.7 mg/L 96h Danio rerio LC50: >1000 mg/L 96h Oncorhynchus mykiss		EC50: >919 mg/L 24/48h Daphnia magna

**Persistence and degradability** No information available.

**Bioaccumulative potential** No information available.

Chemical Name	Log P <sub>ow</sub>	Bioconcentration factor (BCF)
Potassium acetate	-3.72	

**Mobility in soil** No information available.

**Other adverse effects** No information available.

## 13. DISPOSAL CONSIDERATIONS

**Waste disposal methods** Dispose of in accordance with local regulations.

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. TRANSPORT INFORMATION

According to: ADG Code, ADR, RID, ADN, IMDG, IATA/ICAO.

**UN Number** Not regulated.

**Proper shipping name** Not regulated.

**Hazard class** Not regulated.

**Hazard class** Not regulated.

**Packing Group** Not regulated.

**Packaging group** Not regulated.

**Environmental hazards** Contains no substances known to be hazardous for the environment.

**Special precautions for user** Not applicable.

**Transport in bulk according to Annex II of MARPOL and the IBC Code** Not applicable.

**HAZCHEM Emergency Action Code** No information available.

**15. REGULATORY INFORMATION**

<b>National regulatory information</b>	No information available.
<b>International Regulations</b>	No information available.

**16. OTHER INFORMATION**

<b>Revision Note</b>	Not applicable.
<b>Training Advice</b>	Workers must be trained in the proper use and handling of this product as required under applicable regulations.
<b>Abbreviations and acronyms</b>	STOT: Specific Target Organ Toxicity ADG Code: Australian Dangerous Goods Code ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Règlement concernant le transport international ferroviaire des marchandises dangereuses (Regulations for the International Transport of Dangerous Goods by Rail) ADN: Accord européen relatif au transport international des marchandises Dangereuses par voies de Navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways) IMDG: International Maritime Dangerous Goods Code ICAO: International Civil Aviation Organization

**This safety data sheet complies with the Work Health and Safety Regulations and is based on the Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice**

**SDS No.** SV00002

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet