



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™ Sustain

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

Serious eye damage/eye irritation	Category 2 - H319
-----------------------------------	-------------------

GHS Label elements, including precautionary statements



Exclamation mark

Signal Word Warning

Hazard Statements Causes serious eye irritation

Precautionary Statements

Prevention Wash hands and face thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

Eyes IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

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 %
Sodium Octyl Sulfate	142-31-4	<3
Alky polyglycoside	132778-08-6	>3
2-(2-butoxyethoxy)ethanol	112-34-5	>1
1-propanaminium, N-(3-aminopropyl)-2-hydroxy-N, N-dimethyl-3-sulfo-. N-coco acyl derivs., hydroxides, inner salts	68139-30-0	<3

4. FIRST AID MEASURES

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

5. FIRE FIGHTING MEASURES

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Ensure adequate ventilation. Avoid contact with eyes. Keep away from heat, sparks and flame. Dispose of in accordance with local regulations.
Environmental precautions	Should not be released into the environment.
Methods for cleaning up	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

Precautions for safe handling	Handle in accordance with good industrial hygiene and safety practice.
Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations. Keep in a dry, cool and well-ventilated place. Keep away from heat. Keep at temperatures between -30 and 49 °C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits	Contains no substances with occupational exposure limit values.
Biological monitoring	No information available.
Context and limitations of control banding	No information available.
Recommended monitoring procedures	No information available.
Appropriate engineering controls	Ensure adequate ventilation, especially in confined areas.
Individual protection measures, such as personal protective equipment	
Eye protection	Safety glasses with side-shields.
Hand Protection	Polychloropyrene (CR) , Butyl rubber, Polyvinylchloride (PVC): > 0.5 mm; Nitrile rubber (NBR): > 0.4 mm. Break through time: >8h .
Skin and body protection	Long sleeved clothing.
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators: Face Mask.
Recommended Filter Type	A
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.
Environmental Exposure Controls	The product should not be allowed to enter drains, water courses or the soil.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state @20°C	Liquid
Appearance	Foam
Colour	Yellow / Amber
Odour	Pleasant
pH	7 - 8.5
Melting/freezing point	0 °C
Boiling point/boiling range	No information available
Flash point	Not applicable.
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Flammability Limits in Air	Not applicable
Explosive limits	Not applicable
Vapour pressure	24 hPa (@20°C)
Vapour density	No information available
Relative density	1.02
Solubility	
Water solubility	Soluble
Partition Coefficient (n-octanol/water)	Not Applicable
Autoignition temperature	Not applicable.

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Hazardous Reactions	No information available.
Conditions to Avoid	Keep away from heat and sources of ignition.
Materials to Avoid	No information available.
Hazardous Decomposition Products	Thermal decomposition can lead to release of toxic and corrosive gases/vapours (Carbon monoxide (CO), Carbon dioxide (CO ₂), Nitrogen oxides (NO _x), Sulphur oxides (SO ₂), Metal oxides).
Reactivity	Not reactive under recommended storage and handling conditions.

11. TOXICOLOGICAL INFORMATION

Acute toxicity
Ingestion No known effect.
Skin contact No known effect.
Inhalation No known effect.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium Octyl Sulfate	3200 mg/kg (Rat)		
2-(2-butoxyethoxy)ethanol	3384 mg/kg (Rat)	2700 mg/kg (Rabbit)	

Skin corrosion/irritation No known effect.

Serious eye damage/irritation Causes eye irritation.

Respiratory or skin sensitisation No known effect.

Germ cell mutagenicity Not known to cause heritable genetic damage.

Carcinogenicity Contains no ingredient listed as a carcinogen.

Reproductive toxicity Not known to cause birth defects or have a deleterious effect on a developing fetus. Not known to adversely affect reproductive functions and organs.

STOT-single exposure No known effect.

STOT-repeated exposure No known effect.

Aspiration hazard No known effect.

Routes of Exposure No information available.

Most important symptoms/effects, acute and delayed 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

Persistence and degradability No information available.

Bioaccumulative potential No information available.

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

National regulatory information	No information available.
International Regulations	No information available.

16. OTHER INFORMATION

Revision Note	Not applicable.
Training Advice	Workers must be trained in the proper use and handling of this product as required under applicable regulations.
Abbreviations and acronyms	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. SV00001

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