



# SAFETY DATA SHEET

Revision Date 06/06/2017  
Date of the previous version 12/07/2015

Version 2  
EN

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

### 1.1. Product identifier

Product Name **Eclipse™ Sustain**

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Fire extinguishing agent.  
Uses advised against No information available.

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

#### Importer

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

### 1.4. Emergency telephone number

UK National Poisons Information Service (NPIS) call 111 or, in life-threatening emergencies, 999

UK National Chemical Emergency Centre (NCEC):

For Europe and if no country-specific number listed: +44 1866 407 333

For Brazil: +55 11 3197 5891

For US: +1 202 464 2554

For Mexico: +52 55 5004 8763

For Africa: +27 21 300 2732

For Australia: +61 2 8014 4558

For NZ: +649 929 1483

For China (mainland): +86 532 8388 9090

For China (outside): +85 512 8090 3041

(24 hours per day/7 days per week)

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

#### Classification (1272/2008/EC)

Serious eye damage/eye irritation

Category 2 - H319

For the full text of the H-Statements mentioned in this Section, see Section 16.

### 2.2. Label elements

**Signal word**

Warning

**Hazard Statements**

H319 - Causes serious eye irritation

**Precautionary Statements**

P264 - Wash hands thoroughly after handling

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/attention

**2.3 Other hazards**

None known.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixtures**

Chemical Name	EC-No	CAS-No	Weight %	Classification (1272/2008/EC)	REACH Registration Number
Sodium Octyl Sulfate	205-535-5	142-31-4	<3	Flam. Solid 1 H228 Skin Irr. 2 H315 Eye Dam. 1 H318 STOT SE 3 H335	01-2119966154-35
Alky polyglycoside	603-654-0	132778-08-6	>3	Eye Dam. 1 H318	No data available
2-(2-butoxyethoxy)ethanol	203-961-6	112-34-5	>1	Eye Irr. 2 H319	01-2119475104-44
1-propanaminium, N-(3-aminopropyl)-2-hydroxy -N, N-dimethyl-3-sulfo-, N-coco acyl derivs., hydroxides, inner salts	268-761-3	68139-30-0	<3	Eye Irr. 2 H319	No data available

For the full text of the H-Statements mentioned in this Section, see Section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of 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 if irritation persists.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention immediately if irritation persists.
<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>Protection of First-aiders</b>	Use personal protective equipment. Avoid contact with skin, eyes and clothing.

### 4.2. Most important symptoms and effects, both acute and delayed

<b>Main Symptoms</b>	If in eyes: May cause redness and tearing.
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### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Notes to physician</b>	Treat symptomatically.
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## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

<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.

### 5.2. Special hazards arising from the substance or mixture

<b>Special Hazard</b>	Thermal decomposition can lead to release of irritating and toxic gases and vapors ( Nitrogen oxides (NO <sub>x</sub> ), Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ), sulphur dioxide (SO <sub>2</sub> ), Metal oxides ).
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### 5.3. Advice for firefighters

<b>Fire fighting measures</b>	Dilute toxic gases with water spray.
<b>Special protective equipment for fire-fighters</b>	Wear self-contained breathing apparatus and protective suit.

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**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Avoid contact with eyes. Keep away from heat, sparks and flame. Dispose of in accordance with local regulations.

**6.2. Environmental precautions**

Should not be released into the environment.

**6.3 Methods and material for containment and 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.

**6.4. Reference to other sections**

See sections 8 and 13.

**SECTION 7: HANDLING AND STORAGE****7.1 Precautions for safe handling**

Handle in accordance with good industrial hygiene and safety practice.

**7.2. 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.

**7.3. Specific end use(s)**

<b>Exposure Scenario</b>	Not available.
<b>Other information</b>	Not available.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Chemical Name	European Union	The United Kingdom	France	Spain	Germany
2-(2-butoxyethoxy)ethanol	TWA: 67.5 mg/m <sup>3</sup>	STEL: 15 ppm STEL: 101.2 mg/m <sup>3</sup> TWA: 10 ppm TWA: 67.5 mg/m <sup>3</sup>	TWA: 10 ppm TWA: 67.5 mg/m <sup>3</sup> STEL: 15 ppm STEL: 101.2 mg/m <sup>3</sup>	VLA-ED: 67.5 mg/m <sup>3</sup> VLA-EC: 101.2 mg/m <sup>3</sup>	MAK: 67 mg/m <sup>3</sup> TWA: 100 mg/m <sup>3</sup>

Chemical Name	Italy	Portugal	Netherlands	Denmark	Poland
2-(2-butoxyethoxy)ethanol	TWA: 67,5 mg/m <sup>3</sup> STEL: 101,2 mg/m <sup>3</sup>		WG: 50 mg/m <sup>3</sup> STEL: 100 mg/m <sup>3</sup>	TWA: 100 mg/m <sup>3</sup> STEL: 200 mg/m <sup>3</sup>	NDS: 67 mg/m <sup>3</sup> NDSCh: 100 mg/m <sup>3</sup>

Chemical Name	Belgium	Sweden	Hungary	Finland	Czech Republic
2-(2-butoxyethoxy)ethanol	TWA: 67.5 mg/m <sup>3</sup> STEL: 101.2 mg/m <sup>3</sup>	TWA: 100 mg/m <sup>3</sup> STV: 200 mg/m <sup>3</sup>	TWA: 67.5 mg/m <sup>3</sup> STEL: 101.2 mg/m <sup>3</sup>	TWA: 68 mg/m <sup>3</sup> TWA: 10 ppm	

**Recommended monitoring procedures** No information available.

### Derived No Effect Level (DNEL)

Chemical Name	Worker - inhalative, long-term - local	Worker - dermal, long-term - local	Worker - inhalative, short-term - local	Worker - dermal, short-term - local
2-(2-butoxyethoxy)ethanol	67.5 mg/m <sup>3</sup>		101.2 mg/m <sup>3</sup>	

Chemical Name	Worker - inhalative, long-term - systemic	Worker - dermal, long-term - systemic	Worker - inhalative, short-term - systemic	Worker - dermal, short-term - systemic
2-(2-butoxyethoxy)ethanol	67.5 mg/m <sup>3</sup>	83 mg/kg bw/day		
Sodium Octyl Sulfate	285 mg/m <sup>3</sup>	4 060 mg/kg bw/day		

### Predicted No Effect Concentration (PNEC)

Chemical Name	Freshwater	Marine water	Intermittent release	Sewage treatment plant	Freshwater sediment	Marine sediment	Soil	Oral
2-(2-butoxyethoxy)ethanol	1.1 mg/L	0.11 mg/L		200 mg/L	4.4 mg/kg sediment dw	0.44 mg/kg sediment dw	0.32 mg/kg soil dw	56 mg/kg food
Sodium Octyl Sulfate	0.136 mg/L	0.014 mg/L		1.35 mg/L	1.5 mg/kg sediment dw	0.15 mg/kg sediment dw	0.22 mg/kg soil dw	

### 8.2. Exposure controls

**Appropriate engineering controls** Ensure adequate ventilation, especially in confined areas.

#### Individual protection measures, such as personal protective equipment

**Eye Protection**

**Hand Protection**

**Skin and body protection**

**Respiratory protection**

**Recommended filter type**

Safety glasses with side-shields.

Polychloroprene (CR), Butyl rubber, Polyvinylchloride ( PVC ): > 0.5 mm; Nitrile rubber (NBR): > 0.4 mm. Break through time: >8h .

Long sleeved clothing

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators: Face mask.

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**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.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Physical State @20°C	Liquid
Appearance	Foam
Color	Yellow / Amber
Odor	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
Vapor pressure	24 hPa (@20°C)
Vapor density	No information available
Relative density	1.02
Solubility	
Water solubility	Soluble
Partition Coefficient (n-octanol/water)	Not Applicable
Autoignition temperature	Not applicable
Decomposition temperature	No information available
Viscosity, dynamic	No information available
Explosive properties	No information available
Oxidizing properties	No information available

### 9.2 Other information

Critical Temperature	>60 °C
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## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Not reactive under recommended storage and handling conditions.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

No information available.

### 10.4. Conditions to avoid

Keep away from heat and sources of ignition.

### 10.5. Incompatible materials

No information available.

### 10.6. Hazardous decomposition products

Thermal decomposition can lead to release of toxic and corrosive gases/vapors ( Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>), Sulphur dioxides (SO<sub>2</sub>), Metal oxides )

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

<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
2-(2-butoxyethoxy)ethanol	3384 mg/kg ( Rat )	2700 mg/kg ( Rabbit )	
Sodium Octyl Sulfate	3200 mg/kg ( Rat )		

<b>Skin corrosion/irritation</b>	No known effect.
<b>Serious eye damage/irritation</b>	Causes eye irritation.
<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.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

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

### 12.2. Persistence and degradability

No information available.

### 12.3. Bioaccumulative potential

No information available.

### 12.4. Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

Not applicable.

### 12.6. Other adverse effects

No information available.

**SECTION 13: DISPOSAL CONSIDERATIONS****13.1. Waste treatment methods****Waste from Residues / Unused Products**

Dispose of in accordance with local regulations.

**Contaminated packaging**

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

**SECTION 14: TRANSPORT INFORMATION**

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

**14.1. UN number**

Not regulated.

**14.2. UN proper shipping name**

Not regulated.

**14.3. Transport hazard class(es)**

Not regulated.

**14.4. Packing group**

Not regulated.

**14.5 Environmental hazards**

Not applicable.

**14.6 Special precautions for user**

Not applicable.

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code**

Not applicable.

**SECTION 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Restrictions on use**

None.

**Other regulations**

None.

**15.2 Chemical safety assessment**

Not required.

**SECTION 16: OTHER INFORMATION****Full text of H-Statements referred to under sections 2 and 3**

H228 - Flammable solid  
H301 - Toxic if swallowed  
H302 - Harmful if swallowed  
H311 - Toxic in contact with skin  
H315 - Causes skin irritation



H318 - Causes serious eye damage  
H319 - Causes serious eye irritation  
H335 - May cause respiratory irritation  
H412 - Harmful to aquatic life with long lasting effects

**Revision Note** Format updated in compliance with European REACH and CLP regulations.

**Training Advice** Workers must be trained in the proper use and handling of this product as required under applicable regulations.

**Abbreviations and acronyms**

EC: European Commission  
REACH: Registration, Evaluation, Authorisation and Restriction of Chemical substances  
DNEL: Derived No Effect Level  
PNEC: Predicted No Effect Concentration  
STOT: Specific Target Organ Toxicity  
PBT: Persistent, Bioaccumulative, Toxic  
vPvB: very Persistent and very Bioaccumulating  
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

**SDS No.** SV00001

#### Disclaimer

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**End of Safety Data Sheet**