

## SAFETY DATA SHEET

### EndoFuse™

According to Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, February 2016

## SAFETY DATA SHEET

### 1. PRODUCT & COMPANY IDENTIFICATION

**Product Name:** EndoFuse  
**Product Code:** AS10610.51.044  
**Recommended Use:** Inoculant  
**Restricted Use:** None Known  
**Supplier:** Sumitomo Chemical Australia Pty Ltd  
**Address:** Level 5, 51 Rawson Street, EPPING, NSW 2121  
**Phone Number:** 1800 060 671

### 2. HAZARDS IDENTIFICATION

**OSHA Regulatory Status:** Hazard Communication Standard (29 CFR 1910.1200).

**Classification:**

None

**Prevention Statements:**

Wash hands and face thoroughly after handling.

**Response Statements:**

**Signal Word:** WARNING

**Symbol / Pictogram:** No Pictogram

**Hazard Statements:**

None

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

IF ON SKIN: Wash with plenty of water.

If skin irritation or rash occurs: get medical advice/attention.

**Disposal:**

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Other Hazards:** None known.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>Classification</u>	<u>CAS #</u>	<u>Concentration (w/w %)</u>
Active/Trade Secret – Non-Hazardous	Not classified	None	8.73%*
Other Ingredients – Non-Hazardous	Not classified	None	91.27%*

\*Exact percentages vary based on batch to batch variability. Ingredients not identified are proprietary or non-hazardous.

### 4. FIRST AID MEASURES

**General Description of First Aid**

**Measures:**

**Inhalation:**

Remove from source of exposure. If signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

**Skin Contact:**

Remove from source of exposure. Wash with plenty of water.

If skin irritation or rash occurs: get medical advice/attention.

If irritation persists or signs of toxicity occur, seek medical attention.

**Eye Contact:**

Remove from source of exposure. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists or signs of toxicity occur, seek medical attention.

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<b>Ingestion:</b>	Remove from source of exposure. Move person to fresh air. Do NOT induce vomiting. Give large quantities of water. If signs of toxicity occur, seek medical attention. Provide symptomatic /supportive care as necessary.
<b>Most Important symptoms and effects, both acute and delayed:</b>	<b>Acute:</b> Not known – treat with caution. No information on acute adverse effects. <b>Delayed:</b> Not known – treat with caution. No information on delayed adverse effects.
<b>Indication of any Immediate Medical Attention and Special Treatment Needed</b>	Treat symptomatically and supportively.

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### 5. FIRE FIGHTING MEASURES

**Extinguishing Media:**

**Suitable Extinguishing Media:** Dry chemical and carbon dioxide, alcohol resistant foam, sand, water fog or fine spray. Use appropriate medium for the underlying cause of the fire.

**Unsuitable Extinguishing Media:** High Volume Water Jet (based on major component of mixture)

**Special Exposure Hazards:** Containers may rupture from gas generation in a fire. Keep containers cool by spraying with water if exposed to fire.

**Thermal decomposition products**

Carbon oxides, nitrogen oxides, ammonia

**Special Protective Equipment / Procedures for Firefighters:**

**Protective Equipment and precautions for firefighters**

Fire fighter should wear full-face, self-contained breathing apparatus and impervious protective clothing. Fire fighters should avoid inhaling combustion products. See Section 8 (Exposure Controls / Personal Protection)

**Fire & Explosive hazard**

Risk of ignition as described above in 5.2.

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### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions:</b>	Use in a well-ventilated area. Respiratory protection is not needed during normal product use. Wear eye protection appropriate to handling activities. Wear impervious gloves. Wear appropriate body coverings if contact may occur. Where exposure level is not known, wear respirator protection suitable for expected level of exposure, in addition to the personal protection as recommended in Section 8.
<b>Environmental Precautions:</b>	Avoid unnecessary release to the environment. Prevent spillage from entering drains and/or surface water.
<b>Containment / Clean-Up Methods:</b>	Ventilate area. Wear appropriate personal protective equipment. Recover product with inert material (earth, sand, vermiculite), place into appropriate container for disposal. Do not flush to sewer.
<b>Containment and Cleaning Up</b>	Ventilate area. Wear appropriate personal protective equipment. Recover product with inert material (earth, sand, vermiculite), place into appropriate container for disposal. Do not flush to sewer.

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### 7. HANDLING & STORAGE

<b>Handling:</b>	Avoid breathing mist or vapor. Avoid contact with eyes, skin or clothing. Wash thoroughly after handling. Do not eat drink or smoke while working with product, obey reasonable safety precautions and practice good housekeeping. For filling operations respiratory protection may be recommended particularly in enclosed areas.
<b>Storage:</b>	Protect against physical damage. Close containers of unused material. Store in a dry, cool, ventilated place. Keep away from source of ignition. Store separately from reactive or combustible materials and out of direct sunlight.
<b>Incompatibilities</b>	None Known.

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Control parameters:</b>	Component Exposure Levels: Information collected from supplier SDS's.																						
	<table border="1"> <thead> <tr> <th><u>Component</u></th> <th><u>Regulation</u></th> <th><u>Type of Listing</u></th> <th><u>Value</u></th> </tr> </thead> <tbody> <tr> <td>Polyethylene glycol</td> <td>US WEEL</td> <td>TWA aerosol</td> <td>10 mg/m<sup>3</sup></td> </tr> <tr> <td>Diethylene glycol</td> <td>US WEEL</td> <td>TWA</td> <td>10 mg/m<sup>3</sup></td> </tr> <tr> <td rowspan="3">Ethylene glycol</td> <td>Dow IHG</td> <td>TWA</td> <td>50 mg/m<sup>3</sup></td> </tr> <tr> <td>Dow IHG</td> <td>STEL</td> <td>100 mg/m<sup>3</sup></td> </tr> <tr> <td>ACGIH</td> <td>C Aerosol only</td> <td>100 mg/m<sup>3</sup></td> </tr> </tbody> </table>	<u>Component</u>	<u>Regulation</u>	<u>Type of Listing</u>	<u>Value</u>	Polyethylene glycol	US WEEL	TWA aerosol	10 mg/m <sup>3</sup>	Diethylene glycol	US WEEL	TWA	10 mg/m <sup>3</sup>	Ethylene glycol	Dow IHG	TWA	50 mg/m <sup>3</sup>	Dow IHG	STEL	100 mg/m <sup>3</sup>	ACGIH	C Aerosol only	100 mg/m <sup>3</sup>
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<b>Engineering Controls:</b>	Provide general ventilation. Where adequate general ventilation is unavailable use process enclosure, local exhaust ventilation, or other engineering controls.																						
<b>Respiratory Protection:</b>	For filling operations if dust/mist is produced respiratory protection is recommended or where respiratory protection is warranted, use dust/mist filtering respirator (MSHA/NIOSH approved number prefix TC-21C or a NIOSH approved respirator with any N, P, R or HE filter). Wash thoroughly with soap and water after handling.																						
<b>Personal Protective Equipment :</b>	<p><b>Skin and Body Protection:</b> Wear suitable protective clothing.</p> <p><b>Eye and Face Protection:</b> Safety glasses or goggles recommended</p> <p><b>Respiratory Protection:</b> For operations where the exposure limit may be exceeded, a NIOSH/MSHA approved high efficiency particulate respirator is recommended.</p>																						

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### 9. PHYSICAL & CHEMICAL PROPERTIES

<b>State:</b>	Liquid; pale yellow	<b>Upper/Lower flammability limits:</b>	Not determined
<b>Appearance:</b>	with gray shade	<b>Vapor pressure:</b>	Not determined
<b>Odor:</b>	Not determined	<b>Vapor density: (air =1)</b>	Not determined
<b>Odor threshold:</b>	Not determined	<b>Specific Gravity: (H<sub>2</sub>O = 1)</b>	Not determined
<b>pH:</b>	Not determined	<b>Solubility in water:</b>	Not determined
<b>Melting/Freezing point:</b>	Not applicable - liquid	<b>Partition coefficient (n-octanol-water):</b>	Not determined
<b>Boiling point:</b>	Not determined	<b>Auto-ignition temperature:</b>	Not determined
<b>Flash point:</b>	Not determined	<b>Decomposition temperature:</b>	Not determined
<b>Evaporation rate:</b>	Not applicable	<b>Viscosity:</b>	Not determined
<b>Flammability (solid, gas):</b>	Not determined	<b>Flammability Class:</b>	Not determined
<b>Bulk Density:</b>	1.02 – 1.11 g/ml		

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### 10. STABILITY & REACTIVITY

<b>Reactivity Hazards:</b>	Material does not pose a significant reactivity hazard.
<b>Chemical Stability:</b>	Stable under ordinary conditions of use and storage. Spontaneous reaction not possible.
<b>Possibility of Hazardous Reactions</b>	Does not undergo hazardous polymerization
<b>Conditions to Avoid:</b>	Exposure to elevated temperatures can cause product to decompose. Generation of gas during decomposition can cause pressure in closed systems.
<b>Incompatible Materials:</b>	Avoid contact with: Strong acids, strong bases and strong oxidizers.
<b>Hazardous Decomposition Products:</b>	Can include but not limited to: Carbon oxides, aldehydes, alcohols, ethers, carboxylic acids, polymer fragments.

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### 11. TOXICOLOGICAL INFORMATION

<b>Information on Toxicological Effects:</b>	
<b>Likely Routes of Exposure</b>	<b>Inhalation:</b> Yes <b>Eye Contact:</b> Yes <b>Skin Contact:</b> Yes <b>Ingestion:</b> Not likely
<b>Formulation Toxicology:</b>	Toxicity not evaluated –treat as if it were hazardous.

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### 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity:</b>	This product has not been tested for eco-toxicological effects. Treat with extreme caution and do not allow into waterways or lakes.
<b>Persistence/ Degradability:</b>	Environmental persistence and fate not evaluated.
<b>Bioaccumulative potential:</b>	No data available
<b>Mobility in soil:</b>	No data available
<b>Other adverse effects:</b>	None known
<b>Results of PBT and vPvB assessment:</b>	PBT: Assessments not performed vPvB: Assessments not performed

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### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Methods:** Dispose of product in accordance with federal, state, provincial, and local regulations. Prevent contamination of environment by wastes. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations.

**US EPA WASTE NUMBER & DESCRIPTIONS:**  
There is no applicable EPA waste number. This product, if discarded, is not expected to be a characteristic or listed hazardous waste.

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### 14. TRANSPORT INFORMATION

	<u>DOT</u>	<u>IMDG</u>	<u>IATA</u>	<u>TDG</u>
<b>UN number:</b>	Not applicable	Not applicable	Not applicable	Not applicable
<b>Proper shipping name:</b>	Not regulated under DOT	Not regulated	Not regulated	Not regulated
<b>Hazard class(es):</b>	Not applicable	Not applicable	Not applicable	Not applicable
<b>Packing group:</b>	Not applicable	Not applicable	Not applicable	Not applicable
<b>Special precautions:</b>	Consult IMO regulations before transporting ocean bulk. Transport in bulk according to Annex I or II of MARPOL 73/78 and the IBC or IGC Code.			

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### 15. REGULATORY INFORMATION

**Safety, health and environmental regulations/legislation specific for the substance or mixture:**

TSCA STATUS: Not Listed; Experimental Formulation  
 CERCLA STATUS: Not Listed; Experimental Formulation  
 SARA STATUS: Acute: No Chronic: No Fire: No CDT: No

SARA 313: This mixture contains the following substance subject to the reporting requirements of Section 313 Title III:

Ethylene Glycol CAS # 107-21-1

RCRA STATUS: Not Listed; Experimental Formulation

State Right-To-Know: Experimental Formulation

Warning – this product contains a chemical known in the State of California to cause cancer:

Propylene Oxide CAS# 75-56-9

PA Worker and Community Right-To-Know Act:

The following substance is listed because of the Additional requirements of Pennsylvania law:

Diethylene glycol CAS# 111-46-6

Consult applicable national, state provincial or local laws to determine regulations, laws or ordinances which may be applicable.

OSHA HAZARD COMMUNICATION STANDARD: Not defined by the OSHA Hazard Communication Standard, 29 CFR

**Pesticide Labeling**

Not an EPA registered pesticide

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### 16. OTHER INFORMATION

<u>NFPA Hazard Ratings</u>		<u>HMIS Hazard Ratings</u>		0 = Minimal
Health:	N/D	Health:	N/D	1 = Slight
Flammability:	N/D	Flammability:	N/D	2 = Moderate
Instability:	N/D	Instability:	N/D	3 = Serious
				4 = Extreme

Legend:	L = Listed
N/A = Not Applicable	S = Short-term
N/L = Not Listed	® = Registered Trademark
N/D = Not Determined	™ = Registered Trademark
C = Ceiling	

Disclaimer: The information provided in this Safety Data Sheet (SDS) is provided in good faith and believed to be accurate at the time of preparation of the SDS. However, Mycorrhizal Applications and its subsidiaries or affiliates extend no warranties, make no representations, and assume no responsibility as to the accuracy, suitability, or completeness of such information. Additionally, neither Mycorrhizal Applications nor any of its subsidiaries or affiliates represents or guarantees that this information or product may be used without infringing the intellectual property rights of others. It is the users' own responsibility to determine the suitability of this information for their own particular use of this product. If necessary, contact Mycorrhizal Applications to confirm that you have the most current product label and SDS.

This Safety Data Sheet (SDS) may provide more information than the product label but does not replace or modify the product labeling (attached to and accompanying the product container). The product SDS and the product label both provide consistent and important health, safety, and environmental information as required by the Occupational Health and Safety Act (29 CFR 1910.1200, "Hazcom"). This requirement covers employers, employees, emergency responders, users and others handling the product. All necessary hazard classification and appropriate precautionary, use, storage, and disposal information is set forth on the labeling and the SDS.

<b>SDS preparation date:</b>	13/03/2020	<b>Replaces MSDS dated:</b>	NA
<b>Revision notes:</b>	New SDS	<b>Version:</b>	v.1