

## SAFETY DATA SHEET

### ZoneSealant 2000

Revision Date: 02-Oct-2020

Revision Number: 38

#### 1. Identification

##### Product Name

Product Trade Name: ZoneSealant 2000

##### Other Names

##### Synonyms

Hazardous Material Number: HM003249

##### Recommended Use

Recommended Use: Foam Stabilizer

Uses advised against: Consumer use

##### Company Name, Address and Contact Details

Manufacturer/Supplier: Halliburton New Zealand  
136-140 Connett Road East, Block  
New Plymouth  
New Zealand  
Telephone: +64 6-755 2405  
Company Registration No.: 824207

E-mail Address: fdunexchem@halliburton.com

Emergency Telephone Number: +64 800 451719  
Global Incident Response Access Code: 334305  
Contract Number: 14012

New Zealand National Poisons Centre: 0800 764 766 (24 hours)

#### 2. Hazards Identification

##### Statement of Hazardous Nature

Classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulation 2001; Not Classified as dangerous good according to NZS 5433:2012, UN, IMDG or IATA

##### Classification

6.3A Irritating to the skin

8.3A Corrosive to ocular tissue

9.1B Ecotoxic in the aquatic environment

##### Hazard and Precautionary Statements

##### Hazard Pictograms



Signal Word: Danger

Hazard Statements: H318 - Causes serious eye damage  
H315 - Causes skin irritation

H411 - Toxic to aquatic life with long lasting effects

**Precautionary Statements****Prevention**

P101 - If medical advice is needed, have product container or label at hand  
 P102 - Keep out of reach of children  
 P103 - Read label before use  
 P104 - Read Safety Data Sheet before use.  
 P264 - Wash face, hands and any exposed skin thoroughly after handling  
 P280 - Wear protective gloves/eye protection/face protection

**Response**

P302 + P352 - IF ON SKIN: Wash with plenty of water.  
 P332 + P313 - If skin irritation occurs: Get medical advice/attention  
 P362 + P364 - Take off contaminated clothing and wash before reuse  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.  
 Remove contact lenses, if present and easy to do. Continue rinsing  
 P310 - Immediately call a POISON CENTER or doctor/physician  
 P391 - Collect spillage

**Storage**

None

**Disposal**

P501 - Dispose of contents/container to an approved incineration plant

**Contains**

Substances	CAS Number	Substance HSNO Classification
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8	6.3A 8.3A 9.1C
Isopropanol	67-63-0	3.1B 6.1E (oral) 6.3B 6.4A

**2.3. Other Hazards**

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

### 3. Composition/Information on Ingredients

Substances	CAS Number	PERCENT (w/w)
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8	30 - 60%
Isopropanol	67-63-0	5 - 10%

### 4. First Aid Measures

**Requirements for First Aid or Medical Care****Inhalation**

If inhaled, move victim to fresh air and seek medical attention.

**Eyes**

In case of contact, immediately flush eyes with plenty of water for at least 30 minutes.  
 Remove contact lenses after the first 5 minutes and continue washing. Seek immediate medical attention/advice. Suitable emergency eye wash facility should be immediately available

**Skin**

In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Get medical attention.

**Ingestion**

Do NOT induce vomiting. Give nothing by mouth. Obtain immediate medical attention.

**Workplace Facilities Required**

None

**Relation to Health Effect****Most Important Symptoms/Effects**

Causes severe eye irritation which may damage tissue. Causes skin irritation. May be harmful if swallowed.

**Medical Attention and Special Treatment****Notes to Physician**

Treat symptomatically

## 5. Fire-fighting measures

### Type of Hazard

#### Flammability Hazard

Non-flammable

### 5.1. Extinguishing media

#### Suitable Extinguishing Media

Water fog, carbon dioxide, foam, dry chemical.

#### Extinguishing media which must not be used for safety reasons

None known.

### HAZCHEM Code

Hazchem Code: None Allocated

### Special Protective Equipment and Precautions for Fire Fighters

#### Special protective equipment for firefighters

Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

#### Special exposure hazards in a fire

Decomposition in fire may produce harmful gases.

## 6. Accidental Release Measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Use appropriate protective equipment. Remove sources of ignition. Avoid contact with skin, eyes and clothing. Avoid breathing vapors. Ensure adequate ventilation.

See Section 8 for additional information.

### 6.2. Environmental precautions

Prevent from entering sewers, waterways, or low areas.

### 6.3. Methods and material for containment and cleaning up

Dike far ahead of liquid spill for later disposal. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

### 6.4. Reference to other sections

See Section 8 and 13 for additional information.

## 7. Handling and storage

### 7.1. Precautions for safe handling

#### Handling Precautions

Use appropriate protective equipment. Avoid contact with eyes, skin, or clothing. Wash hands after use. Launder contaminated clothing before reuse. Avoid breathing vapors. Ensure adequate ventilation.

#### Handling Practices

##### Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

#### Approved Handlers

This product does NOT require an approved handler.

### 7.2. Conditions for safe storage, including any incompatibilities

Store in a cool well ventilated area. Store away from oxidizers. Keep container closed when not in use. Store at temperatures between 50 and 100 F (10 and 37.8 C). Do not freeze. Product has a shelf life of 24 months.

#### Product is incompatible with:

Class 1 (explosives)  
Class 2 (flammable gases, aerosols)  
Class 3.2 (liquid desensitised explosives)  
Class 4 (readily combustible, self-reactive, solid desensitised explosives, spontaneously combustible, dangerous when wet)  
Class 5 (oxidisers, organic peroxides)

### Store Site Requirements

No special controls required

**Packaging**

No special packaging required

**8. Exposure Controls/Personal Protection****Workplace Exposure Standards****Exposure Limits**

Substances	CAS Number	New Zealand WES	ACGIH TLV-TWA
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8	Not applicable	Not applicable
Isopropanol	67-63-0	TWA: 400 ppm TWA: 983 mg/m <sup>3</sup> STEL: 500 ppm STEL: 1230 mg/m <sup>3</sup>	TWA: 200 ppm STEL: 400 ppm

**Engineering Controls****Engineering Controls**

Use in a well ventilated area. Local exhaust ventilation should be used in areas without good cross ventilation.

**Personal Protective Equipment (PPE)****Personal Protective Equipment**

If engineering controls and work practices cannot prevent excessive exposures, the selection and proper use of personal protective equipment should be determined by an industrial hygienist or other qualified professional based on the specific application of this product.

**Respiratory Protection**

If engineering controls and work practices cannot keep exposure below occupational exposure limits or if exposure is unknown, wear a NIOSH certified, European Standard EN 149, AS/NZS 1715:2009, or equivalent respirator when using this product. Selection of and instruction on using all personal protective equipment, including respirators, should be performed by an Industrial Hygienist or other qualified professional. Organic vapor respirator.

**Hand Protection**

In high concentrations, supplied air respirator or a self-contained breathing apparatus. Impervious gloves Manufacturer's directions for use should be observed because of great diversity of types.

**Skin Protection**

Rubber apron.

**Eye Protection**

Chemical goggles; also wear a face shield if splashing hazard exists.

**Other Precautions**

Eyewash fountains and safety showers must be easily accessible.

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice.

**9. Physical and Chemical Properties****9.1. Information on basic physical and chemical properties**

**Physical State:** Liquid      **Color:** Light yellow  
**Odor:** Sweet      **Odor Threshold:** No information available

Property Remarks/ - Method	Values
<b>pH:</b>	6.0 - 7.5
<b>Freezing Point / Range</b>	No data available
<b>Melting Point / Range</b>	No data available
<b>Pour Point / Range</b>	No data available
<b>Boiling Point / Range</b>	No data available
<b>Flash Point</b>	> 93.3 °C / > 200 °F (Closed cup)
<b>Evaporation rate</b>	No data available
<b>Vapor Pressure</b>	No data available
<b>Vapor Density</b>	No data available
<b>Specific Gravity</b>	1.06
<b>Water Solubility</b>	Soluble in water
<b>Solubility in other solvents</b>	No data available
<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Autoignition Temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Viscosity</b>	< 1000 mPas @ 25°C
<b>Explosive Properties</b>	No information available
<b>Oxidizing Properties</b>	No information available

**9.2. Other information**

VOC Content (%)

No data available

**10. Stability and Reactivity****10.2. Chemical stability**

Stable

**10.4. Conditions to avoid**

Do not freeze

**10.5. Incompatible materials**

Strong oxidizers.

**Product is incompatible with:**

Class 1 (explosives)  
 Class 2 (flammable gases, aerosols)  
 Class 3.2 (liquid desensitised explosives)  
 Class 4 (readily combustible, self-reactive, solid desensitised explosives, spontaneously combustible, dangerous when wet)  
 Class 5 (oxidisers, organic peroxides)

**10.6. Hazardous decomposition products**

Carbon monoxide and carbon dioxide.

**Hazardous Reactions****Hazardous Polymerization:** Will Not Occur**11. Toxicological Information****Health Effect from Likely Routes of Exposure****Acute Toxicity**

<b>Inhalation</b>	May cause respiratory irritation.
<b>Eye Contact</b>	Causes severe eye irritation which may damage tissue.
<b>Skin Contact</b>	Causes moderate skin irritation.
<b>Ingestion</b>	May be harmful if swallowed. May cause abdominal pain, vomiting, nausea, and diarrhea.

**Chronic Effects/Carcinogenicity**

No data available to indicate product or components present at greater than 0.1% are chronic health hazards.

**Toxicity Data****Toxicology data for the components**

Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8	4100 mg/kg (Rat) (Similar substance)	>5000 mg/kg (Rabbit) (Similar substance)	No data available
Isopropanol	67-63-0	4700 mg/kg-bw (rat)	12870 mg/kg-bw (rabbit)	72.6 mg/L (Rat, 4h, vapor)

Substances	CAS Number	Skin corrosion/irritation
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8	Causes moderate skin irritation. (Rabbit) (similar substances)
Isopropanol	67-63-0	Non-irritating to the skin (Rabbit)

Substances	CAS Number	Serious eye damage/irritation
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8	Causes severe eye irritation (Rabbit) (similar substances)
Isopropanol	67-63-0	Causes moderate eye irritation (Rabbit)

Substances	CAS Number	Skin Sensitization
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8	Did not cause sensitization on laboratory animals (guinea pig) (similar substances)
Isopropanol	67-63-0	Did not cause sensitization on laboratory animals (guinea pig)

Substances	CAS Number	Respiratory Sensitization
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8	No information available
Isopropanol	67-63-0	No information available

Substances	CAS Number	Mutagenic Effects
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8	In vitro tests did not show mutagenic effects In vivo tests did not show mutagenic effects. (similar substances)
Isopropanol	67-63-0	In vitro tests did not show mutagenic effects. In vivo tests did not show mutagenic effects.

Substances	CAS Number	Carcinogenic Effects
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8	Did not show carcinogenic effects in animal experiments (similar substances)
Isopropanol	67-63-0	Did not show carcinogenic effects in animal experiments

Substances	CAS Number	Reproductive toxicity
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8	Did not show teratogenic effects in animal experiments. (similar substances)
Isopropanol	67-63-0	Animal testing did not show any effects on fertility.

Substances	CAS Number	STOT - single exposure
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8	No significant toxicity observed in animal studies at concentration requiring classification. (similar substances)
Isopropanol	67-63-0	May cause headache, dizziness, and other central nervous system effects.

Substances	CAS Number	STOT - repeated exposure
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8	No significant toxicity observed in animal studies at concentration requiring classification. (similar substances)
Isopropanol	67-63-0	No significant toxicity observed in animal studies at concentration requiring classification. (similar substances)

Substances	CAS Number	Aspiration hazard
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8	Not applicable
Isopropanol	67-63-0	Not applicable

## 12. Ecological Information

### 12.1. Toxicity

#### Product Ecotoxicity Data

No data available

#### Substance Ecotoxicity Data

Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Toxicity to Invertebrates
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8	EC50 (72h) 73.52 mg/L (Skeletonema costatum) ErC50 (72h) 32 mg/L (Selenstrum)	LC50 (96h) 1 - 2.5 mg/L (Salmo trutta) (similar substance) LC50 (96h) 350 mg/L	No information available	EC50 (48h) 1.17 mg/L (Daphnia magna) (similar substance) LC50 (96h) 232.5 mg/L

		capricornutum) (similar substance) NOEC (72h) 9 mg/L (Selenastrum capricornutum) NOEC (72h) 32 mg/L (Skeletonema costatum)	(Scophthalmus maximus) NOEC (30d) 0.88 mg/L (Pimephales promelas) (similar substance)		(Acartia tonsa) NOEC (21d) 0.37 mg/L (Daphnia magna) (similar substance)
Isopropanol	67-63-0	EC50 (72h) > 1000 mg/L (Desmodesmus subspicatus) EC50 (7d) 1800 mg/L (meanextinction value)(Scenedesmus quadricauda)	LC50 (96h) 9640 mg/L (Pimephales promelas) LC50 (7d) 7060 mg/L (Poecilia reticulata)	TT (16h) 1050 mg/L (Pseudomonas putida)	EC50 (48 h)=2285 mg/L (Daphnia sp.) EC50 (24h) > 10,000 mg/L (Daphnia magna)

## 12.2. Persistence and degradability

Substances	CAS Number	Persistence and Degradability
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8	Readily biodegradable
Isopropanol	67-63-0	Readily biodegradable (53% @ 5d)

## 12.3. Bioaccumulative potential

Substances	CAS Number	Bioaccumulation
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8	Log Pow = 0.7
Isopropanol	67-63-0	LogPow < 4.5

## 12.4. Mobility in soil

Substances	CAS Number	Mobility
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8	No information available
Isopropanol	67-63-0	No information available

## Ecotoxicity Hazard Statements

Toxic to aquatic life

## 12.6. Other adverse effects

### Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors

## 13. Disposal Considerations

### 13.1. Waste treatment methods

#### Disposal methods Contaminated Packaging

Disposal should be made in accordance with federal, state, and local regulations.  
Follow all applicable national or local regulations.

## 14. Transport Information

### NZ 5433.1999

UN Number	Not restricted
UN proper shipping name:	Not restricted
Transport Hazard Class(es):	Not applicable
Packing Group:	Not applicable
Environmental Hazards:	Not applicable

### IMDG/IMO

UN Number	Not restricted
UN proper shipping name:	Not restricted
Transport Hazard Class(es):	Not applicable
Packing Group:	Not applicable
Environmental Hazards:	Not applicable

### IATA/ICAO

UN Number	Not restricted
UN proper shipping name:	Not restricted
Transport Hazard Class(es):	Not applicable

**Packing Group:** Not applicable  
**Environmental Hazards:** Not applicable

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable  
**Special Precautions for User** None

## 15. Regulatory Information

**New Zealand Inventory of Chemicals** All components are listed on the NZIoC or are subject to a relevant exemption, permit, or assessment certificate.

**HSNO Approval Number** HSR002503

**Group Name** Additives, Process Chemicals and Raw Materials (Subsidiary hazard HSR002503)

**HSNO Controls** Refer to the NZ EPA website for more information: <http://www.epa.govt.nz>

**Approved Handlers** Not Applicable

**Poisons Schedule:** None Allocated

## 16. Other information

**Additional information** For additional information on the use of this product, contact your local Halliburton representative.

For questions about the Safety Data Sheet for this or other Halliburton products, contact Chemical Stewardship at 1-580-251-4335.

### Key or legend to abbreviations and acronyms used in the safety data sheet

bw – body weight  
 CAS – Chemical Abstracts Service  
 EC50 – Effective Concentration 50%  
 LC50 – Lethal Concentration 50%  
 LD50 – Lethal Dose 50%  
 LL50 – Lethal Loading 50%  
 MARPOL – International Convention for the Prevention of Pollution from Ships  
 mg/kg – milligram/kilogram  
 mg/L – milligram/liter  
 NOEC – No Observed Effect Concentration  
 OEL – Occupational Exposure Limit  
 ppm – parts per million  
 TWA – Time-Weighted Average  
 VOC – Volatile Organic Carbon  
 C - Celsius  
 IATA/ICAO - International Air Transport Association / International Civil Aviation Organization  
 IMDG/IMO - International Maritime Dangerous Goods / International Maritime Organization  
 mg/m<sup>3</sup> - milligram/cubic meter  
 mm - millimeter  
 mmHg - millimeter mercury  
 w/w - weight/weight  
 d - day

### Key literature references and sources for data

[www.ChemADVISOR.com/](http://www.ChemADVISOR.com/)  
 NZ CCID  
 HERA  
 OSHA  
 ECHA C&L

**Revision Date:** 02-Oct-2020

### Revision Note

SDS sections updated:

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**End of Safety Data Sheet**