

**SAFETY DATA SHEET****NO-SULF®**

Revision Date: 01-Oct-2015

Revision Number: 12

**1. Product Identifier & Identity for the Chemical**

**Statement of Hazardous Nature** Hazardous according to the criteria of the 3rd Revised Edition of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS), Dangerous Goods according to the criteria of ADG.

**1.1. Product Identifier**

**Product Name** NO-SULF®

**Other means of Identification**

**Synonyms:** None

**Product Code:** HM003706

**Recommended use of the chemical and restrictions on use**

**Recommended Use** Hydrogen Sulfide Scavenger

**Uses Advised Against** No information available

**Supplier's name, address and phone number**

**Manufacturer/Supplier** Halliburton Australia Pty. Ltd.  
15 Marriott Road  
Jandakot  
WA 6164  
Australia

ACN Number: 009 000 775

Telephone Number: + 61 1 800 686 951

Fax Number: 61 (08) 9455 5300

**E-Mail address:** fdunexchem@halliburton.com

**Emergency phone number**

+ 61 1 800 686 951

**Australian Poisons Information Centre**

24 Hour Service: - 13 11 26

Police or Fire Brigade: - 000 (exchange): - 1100

**2. Hazard Identification**

**Statement of Hazardous Nature** Hazardous according to the criteria of the 3rd Revised Edition of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS), Dangerous Goods according to the criteria of ADG.

**Classification of the hazardous chemical**

Acute Aquatic Toxicity	Category 1 - H400
Chronic Aquatic Toxicity	Category 1 - H410

**Label elements, including precautionary statements****Hazard Pictograms**



**Signal Word** Warning

**Hazard Statements** H400 - Very toxic to aquatic life  
H410 - Very toxic to aquatic life with long lasting effects

**Precautionary Statements**

**Prevention** P273 - Avoid release to the environment

**Response** P391 - Collect spillage

**Storage** None

**Disposal** P501 - Dispose of contents/container in accordance with local/regional/national/international regulations

**Contains Substances** Zinc carbonate **CAS Number** 3486-35-9

**Other hazards which do not result in classification**

None known

**Australia Classification**

*For the full text of the H-phrases mentioned in this Section, see Section 16*

**Classification** N - Dangerous For The Environment.

**Risk Phrases**

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**3. Composition/information on Ingredients**

Substances	CAS Number	PERCENT (w/w)	GHS Classification - Australia
Zinc carbonate	3486-35-9	60 - 100%	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)

**4. First aid measures**

**Description of necessary first aid measures**

**Inhalation** If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.

**Eyes** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

**Skin** Wash with soap and water. Get medical attention if irritation persists.

**Ingestion** If swallowed, induce vomiting immediately by giving two glasses of water and sticking fingers down throat; never give anything to an unconscious person. Get

medical attention.

**Symptoms caused by exposure**

No significant hazards expected.

**Medical Attention and Special Treatment**

Notes to Physician      Treat symptomatically

## 5. Fire Fighting Measures

**Suitable extinguishing equipment****Suitable Extinguishing Media**

All standard fire fighting media

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

None known.

**Specific hazards arising from the chemical****Special Exposure Hazards**

Decomposition in fire may produce harmful gases.

**Special protective equipment and precautions for fire fighters****Special Protective Equipment for Fire-Fighters**

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

## 6. Accidental release measures

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

Use appropriate protective equipment. Avoid creating and breathing dust.

**6.2. Environmental precautions**

Prevent from entering sewers, waterways, or low areas.

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

Scoop up and remove.

## 7. Handling and storage

**7.1. Precautions for Safe Handling****Handling Precautions**

Avoid contact with eyes, skin, or clothing. Avoid creating or inhaling dust.

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice.

**7.2. Conditions for safe storage, including any incompatibilities****Storage Information**

Store away from acids. Store in a cool, dry location. Keep container closed when not in use.

**Other Guidelines**

No information available

## 8. Exposure Controls/Personal Protection

**Control parameters - exposure standards, biological monitoring****Exposure Limits**

Substances	CAS Number	Australia NOHSC	ACGIH TLV-TWA
Zinc carbonate	3486-35-9	Not applicable	Not applicable

**Appropriate 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)**

<b>Respiratory Protection</b>	Dust/mist respirator. (N95, P2/P3)
<b>Hand Protection</b>	Normal work gloves.
<b>Skin Protection</b>	Normal work coveralls.
<b>Eye Protection</b>	Wear safety glasses or goggles to protect against exposure.
<b>Other Precautions</b>	None known.
<b>Environmental Exposure Controls</b>	No information available

## 9. Physical and Chemical Properties

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

<b>Physical State:</b>	Solid	<b>Color:</b>	White
<b>Odor:</b>	Odorless	<b>Odor Threshold:</b>	No information available

Property

Remarks/ - Method

pH:

Freezing Point/Range

Melting Point/Range

Boiling Point/Range

Flash Point

Evaporation rate

Vapor Pressure

Vapor Density

Specific Gravity

Water Solubility

Solubility in other solvents

Partition coefficient: n-octanol/water

Autoignition Temperature

Decomposition Temperature

Viscosity

Explosive Properties

Oxidizing Properties

Values

No data available

3.5

Partly soluble

No data available

No information available

No information available

**9.2. Other information**

VOC Content (%)

0

Bulk Density

37 lbs/ft<sup>3</sup>

## 10. Stability and Reactivity

**10.1. Reactivity**

Not expected to be reactive.

**10.2. Chemical Stability**

Stable

**10.3. Possibility of Hazardous Reactions**

Will Not Occur

**10.4. Conditions to Avoid**

None anticipated

**10.5. Incompatible Materials**

Strong acids.

**10.6. Hazardous Decomposition Products**

Zinc oxide.

## 11. Toxicological Information

**Information on routes of exposure**

**Principle Route of Exposure** Eye or skin contact, inhalation.

**Symptoms related to exposure**

**Most Important Symptoms/Effects**

No significant hazards expected.

**Numerical measures of toxicity****Toxicology data for the components**

Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Zinc carbonate	3486-35-9	> 5000 mg/kg (Rat) (similar substance)	> 2000 mg/kg (Rat) (similar substance)	> 5.7 mg/L air (Rat, dust, 4h) (similar substance)

**Immediate, delayed and chronic health effects from exposure**

<b>Inhalation</b>	May cause respiratory irritation.
<b>Eye Contact</b>	May cause mild eye irritation.
<b>Skin Contact</b>	May cause mild skin irritation.
<b>Ingestion</b>	May cause stomach discomfort.

**Chronic Effects/Carcinogenicity** No data available to indicate product or components present at greater than 0.1% are chronic health hazards.

**Exposure Levels**

No data available

**Interactive effects**

None known.

**Data limitations**

No data available

Substances	CAS Number	Skin corrosion/irritation
Zinc carbonate	3486-35-9	Non-irritating to the skin (Rabbit) (similar substances)

Substances	CAS Number	Eye damage/irritation
Zinc carbonate	3486-35-9	Non-irritating to the eye (Rabbit) (similar substances)

Substances	CAS Number	Skin Sensitization
Zinc carbonate	3486-35-9	Did not cause sensitization on laboratory animals (guinea pig) (similar substances)

Substances	CAS Number	Respiratory Sensitization
Zinc carbonate	3486-35-9	No information available

Substances	CAS Number	Mutagenic Effects
Zinc carbonate	3486-35-9	In vitro tests did not show mutagenic effects In vivo tests did not show mutagenic effects. (similar substances)

Substances	CAS Number	Carcinogenic Effects
Zinc carbonate	3486-35-9	No information available.

Substances	CAS Number	Reproductive toxicity
Zinc carbonate	3486-35-9	When tested at maternally toxic doses, no adverse effects on fertility, teratogenicity, or development were observed in rats, or on teratogenicity in rabbits Animal testing did not show any effects on fertility. (similar substances)

Substances	CAS Number	STOT - single exposure
Zinc carbonate	3486-35-9	No data of sufficient quality are available.

Substances	CAS Number	STOT - repeated exposure
Zinc carbonate	3486-35-9	No data of sufficient quality are available.

Substances	CAS Number	Aspiration hazard
Zinc carbonate	3486-35-9	Not applicable

## 12. Ecological Information

### Ecotoxicity

#### **Product Ecotoxicity Data**

No data available

#### **Substance Ecotoxicity Data**

Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Toxicity to Invertebrates
Zinc carbonate	3486-35-9	IC50(72h): 0.15 mg/L (Pseudokirchnerella subcapitata) (similar substance)	LC50(96h): 0.439 mg/L (Cottus bairdii) (similar substance) NOEC(30d): 0.172 mg/L (Cottus bairdii) (similar substance)	IC50(4h): 0.35 mg/L (activated sludge of a predominantly domestic sewage) (similar substance)	EC50(48h): 0.416 mg/L (Ceriodaphnia dubia) (similar substance) NOEC(7d): 0.025 mg/L (Ceriodaphnia dubia) (similar substance) NOEC(21d): 0.1 mg/L (Daphnia magna) (similar substance)

### 12.2. Persistence and degradability

Substances	CAS Number	Persistence and Degradability
Zinc carbonate	3486-35-9	The methods for determining biodegradability are not applicable to inorganic substances.

### 12.3. Bioaccumulative potential

Substances	CAS Number	Log Pow
Zinc carbonate	3486-35-9	No information available

### 12.4. Mobility in soil

Substances	CAS Number	Mobility
Zinc carbonate	3486-35-9	No information available

### 12.6. Other adverse effects

#### **Endocrine Disruptor Information**

This product does not contain any known or suspected endocrine disruptors

## 13. Disposal Considerations

#### Safe handling and disposal methods

Bury in a licensed landfill according to federal, state, and local regulations.

#### Disposal of any contaminated packaging

Follow all applicable national or local regulations.

#### Environmental regulations

Not applicable

## 14. Transport Information

#### Transportation Information

##### **UN Number:**

UN3077

##### **UN Proper Shipping Name:**

Environmentally Hazardous Substance, Solid, N.O.S. (zinc Oxide)

##### **Transport Hazard Class(es):**

9

##### **Packing Group:**

III

##### **Environmental Hazards:**

Marine Pollutant

#### Special precautions during transport

None

**HazChem Code**

None Allocated

## 15. Regulatory Information

**Safety, health and environmental regulations specific for the product****International Inventories**

**Australian AICS Inventory**

All components listed on inventory or are exempt.

**New Zealand Inventory of Chemicals**

All components listed on inventory or are exempt.

**EINECS Inventory**

This product, and all its components, complies with EINECS

**US TSCA Inventory**

All components listed on inventory or are exempt.

**Canadian DSL Inventory**

All components listed on inventory or are exempt.

**Poisons Schedule number**

None Allocated

## 16. Other information

**Date of preparation or review**

**Revision Date:** 01-Oct-2015

**Revision Note**

SDS sections updated: 2 14

**Full text of R-phrases referred to under Sections 2 and 3**

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Full text of H-Statements referred to under sections 2 and 3**

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

**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 abbreviations or acronyms used**

bw – body weight

CAS – Chemical Abstracts Service

EC50 – Effective Concentration 50%

LC50 – Lethal Concentration 50%

LD50 – Lethal Dose 50%

LL50 – Lethal Loading 50%

mg/kg – milligram/kilogram

mg/L – milligram/liter

NOEC – No Observed Effect Concentration

OEL – Occupational Exposure Limit

PBT – Persistent Bioaccumulative and Toxic

ppm – parts per million

STEL – Short Term Exposure Limit

TWA – Time-Weighted Average

vPvB – very Persistent and very Bioaccumulative

h - hour

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/)

**Disclaimer Statement**

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**End of Safety Data Sheet**