

Safety data sheet number PID17341

Version 4

Revision date 02/Feb/2018

Supercedes date 24/Nov/2017



Safety Data Sheet SAFE-SCAV* HSN

1. Identification of the Substance/Preparation and of the Company/Undertaking

1.1 Product identifier

Product name SAFE-SCAV* HSN
Product code PID17341

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

Recommended Use Hydrogen Sulphide Scavenger.

Uses advised against Consumer use

1.3 Details of the supplier of the safety data sheet

Supplier

M-I Drilling Fluids UK Limited
Westhill Business Park
Westhill AB32 6JL Aberdeenshire
Scotland United Kingdom

+47 51577424

SDS@slb.com

1.4 Emergency Telephone Number

Emergency telephone - (24 Hour) Australia +61 2801 44558, Asia Pacific +65 3158 1074, China +86 10 5100 3039, Europe +44 (0) 1235 239 670, Middle East and Africa +44 (0) 1235 239 671, New Zealand +64 9929 1483, USA 001 281 561 1600

Denmark	Poison Control Hotline (DK): +45 82 12 12 12
Netherlands	National Poisons Information Centre (NL): +31 30 274 88 88 (NB: this service is only available to health professionals)
Norway	Poison information centre: +47 22 59 13 00

2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Health hazards

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Vapours)	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitisation	Category 1

Specific target organ toxicity - Repeated exposure	Category 1
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Environmental hazards Not classified

Physical Hazards Not classified

2.2 Label elements



Signal word

DANGER

Hazard statements

H302 - Harmful if swallowed
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H330 - Fatal if inhaled
H372 - Causes damage to organs through prolonged or repeated exposure

Precautionary Statements - EU (§28, 1272/2008)

P260 - Do not breathe dust/fume/gas/mist/vapours/spray
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P310 - Immediately call a POISON CENTER or doctor/physician
P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

Supplementary precautionary statements

P264 - Wash face, hands and any exposed skin thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P272 - Contaminated work clothing should not be allowed out of the workplace
P280 - Wear protective gloves/protective clothing and eye/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
P314 - Get medical advice/attention if you feel unwell
P330 - Rinse mouth
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention
P337 + P313 - If eye irritation persists: Get medical advice/attention
P362 + P364 - Take off contaminated clothing and wash it before reuse
P391 - Collect spillage

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Contains

Hexahydro-1,3,5-tris(2-hydroxyethyl)-sym-triazine

Ethanolamine (Impurity)

Formaldehyde (impurity)

2.3 Other hazards

Not classified as PBT/vPvB by current EU criteria

H330 classification is applied due to Inhalation Acute Toxicity studies carried out in Aerosol form
Prevent the formation of aerosols.

3. Composition/information on Ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical Name	EC No	CAS No	Weight-%	Component information	REACH registration number
Hexahydro-1,3,5-tris(2-hydroxyethyl)-sym-triazine	225-208-0	4719-04-4	30-60	Acute Tox. 4 (H302) Acute Tox. 2 (H330) Skin Sens. 1 (H317) Eye Irrit. 2 (H319) STOT RE 1 (H372)	01-2119529226-4 1-xxxx
Ethanolamine (Impurity)	205-483-3	141-43-5	<2	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Skin Corr. 1B (H314)	No data available
Formaldehyde (impurity)	200-001-8	50-00-0	<1	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) Skin Corr. 1B (H314) Skin Sens. 1 (H317) Muta 2 (H341) Carc 1B (H350) STOT SE 3 (H335) Note B, Note D	No data available

Comments

The product contains other ingredients which do not contribute to the overall classification.
Formaldehyde is not present as a substance. It is formed during decomposition.

Note B: Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations.
Note D: Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3.

4. First Aid Measures

4.1 First aid measures

Inhalation	Call a doctor or poison control centre immediately. Move the exposed person to fresh air at once. Keep at rest. If breathing is difficult, (trained personnel should) give oxygen.
Ingestion	Rinse mouth. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. Seek medical attention at once.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Seek medical attention at once.
Eye Contact	Remove contact lenses, if worn. Immediately flush eyes with water for 15 minutes while holding eyelids open. Seek medical attention.

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

General advice	The severity of the symptoms described will vary dependant of the concentration and the length of exposure. If adverse symptoms develop, the casualty should be transferred to hospital as soon as possible.
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Symptoms

Inhalation	Please see Section 11. Toxicological Information for further information.
Ingestion	Please see Section 11. Toxicological Information for further information.
Skin contact	Please see Section 11. Toxicological Information for further information.
Eye contact	Please see Section 11. Toxicological Information for further information.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	Treat symptomatically.
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5. Firefighting Measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, dry chemical, carbon dioxide (CO₂), or foam.

Extinguishing media which must not be used for safety reasons

Do not use halon type extinguisher.

5.2. Special hazards arising from the substance or mixture

Unusual fire and explosion hazards

None known.

Hazardous combustion products

Fire or high temperatures create: Carbon oxides (CO_x), Nitrogen oxides (NO_x), Formaldehyde.

5.3 Advice for firefighters

Special protective equipment for fire-fighters

As in any fire, wear self-contained breathing apparatus and full protective gear.

Special Fire-Fighting Procedures

Containers close to fire should be removed immediately or cooled with water.

6. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Do not get on skin or clothing. Wash thoroughly after handling. Do not breathe vapours or spray mist. Use personal protective equipment. See also section 8.

6.2 Environmental precautions

The product should not be allowed to enter drains, water courses or the soil.

Environmental exposure controls

Avoid release to the environment. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so. Dyke far ahead of liquid spill for later disposal.

Methods for cleaning up

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (see Section 13).

6.4 Reference to other sections

See section 13 for more information.

7. Handling and Storage

7.1 Precautions for safe handling

Handling

Handle in accordance with good industrial hygiene and safety practice. Do not breathe vapors or spray mist. Avoid contact with skin and eyes. Avoid spills and splashing during use. Persons susceptible to allergic reactions should not handle this product. Prevent the formation of vapors, mists and aerosols.

Hygiene Measures

Use good work and personal hygiene practices to avoid exposure. When using do not smoke, eat or drink. Wash hands and face before breaks and immediately after handling the product. Remove contaminated clothing.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures/precautions Ensure adequate ventilation.

Storage precautions Keep containers tightly closed in a dry, cool and well-ventilated place. Avoid heat, flames and other sources of ignition. Avoid frost. Avoid contact with: Strong acids. Strong oxidising agents.

Storage class Toxic storage.

Storage class, TRGS 510, Germany LGK6.1BL - Non-combustible toxic substances (liquid)

Packaging materials Use specially constructed containers only

7.3 Specific end uses

See Section 1.2.

8. Exposure Controls/Personal Protection

8.1 Control parameters

Exposure Limits Formaldehyde is not present as a substance. It is formed during decomposition.

Component Information

Chemical Name	EU OEL - Third List	Austria	Australia	Denmark
Hexahydro-1,3,5-tris(2-hydroxyethyl)-sym-triazine	Not determined	Not determined	Not determined	Not determined
Ethanolamine (Impurity)	3 ppm STEL 7.6 mg/m ³ STEL 1 ppm TWA 2.5 mg/m ³ TWA Possibility of significant uptake through the skin	3 ppm STEL 7.6 mg/m ³ STEL 1 ppm TWA 2.5 mg/m ³ TWA	6ppmSTEL 15mg/m ³ STEL 3ppmTWA 7.5mg/m ³ TWA	1 ppm TWA 2.5 mg/m ³ TWA Potential for cutaneous absorption
Formaldehyde (impurity)	Not determined	0.5 ppm TWA; 0.6 mg/m ³ TWA	2ppmSTEL 2.5mg/m ³ STEL 1ppmTWA 1.2mg/m ³ TWA	0.3 ppm Ceiling; 0.4 mg/m ³ Ceiling
Chemical Name	Malaysia	France	Germany	Hungary
Hexahydro-1,3,5-tris(2-hydroxyethyl)-sym-triazine	Not determined	Not determined	Not determined	Not determined
Ethanolamine (Impurity)	3 ppm TWA 7.5 mg/m ³ TWA	3ppmSTEL 7.6mg/m ³ STEL 1 ppmTWA 2.5 mg/m ³ TWA	0.2 ppm TWA 0.51 mg/m ³ TWA	2.5mg/m ³ TWA 7.6mg/m ³ STEL
Formaldehyde (impurity)	0.3 ppm Ceiling 0.37 mg/m ³ Ceiling	0.5 ppm TWA	0.3 ppm TWA MAK; 0.37 mg/m ³ TWA MAK	0.6 mg/m ³ TWA
Chemical Name	New Zealand	Italy	Netherlands	Norway
Hexahydro-1,3,5-tris(2-hydroxyethyl)-sym-triazine	Not determined	Not determined	Not determined	Not determined
Ethanolamine (Impurity)	6 ppm STEL 15 mg/m ³ STEL 3 ppm TWA 7.5 mg/m ³ TWA	Not determined	7.6mg/m ³ STEL 2.5 mg/m ³	1 ppm TWA 2.5 mg/m ³ TWA 2 ppm STEL 5 mg/m ³ STEL Skin
Formaldehyde (impurity)	0.5 ppm TWA 0.33 ppm TWA sensitiser Confirmed carcinogen 1 ppm Ceiling	0.3 ppm Ceiling; 0.37 mg/m ³ Ceiling	0.5mg/m ³ STEL 0.15 mg/m ³	0.5 ppm TWA 0.6 mg/m ³ TWA 1 ppm Ceiling; 1.2 mg/m ³ Ceiling Carcinogen Sensitizing substance
Chemical Name	Poland	Portugal	Romania	Russia
Hexahydro-1,3,5-tris(2-hydroxyethyl)-sym-triazine	Not determined	Not determined	Not determined	Not determined

Ethanolamine (Impurity)	7.5 mg/m ³ STEL NDSC 2.5 mg/m ³ TWA NDS	Skin 3 ppm STEL VLE-CD 7.6 mg/m ³ STEL VLE-CD 1 ppm TWA indicative limit value 2.5 mg/m ³ TWA indicative limit value	3ppmSTEL 7.6mg/m ³ STEL 1ppmTWA 2.5mg/m ³ TWA	Skin notation 0.5 mg/m ³ MAC Skin
Formaldehyde (impurity)	0.5 mg/m ³ TWA	0.3 ppm Ceiling	1 ppm TWA; 1.20 mg/m ³ TWA	0.5 mg/m ³ MAC (vapor)
Chemical Name	Spain	Switzerland	Turkey	UK
Hexahydro-1,3,5-tris(2-hydroxyethyl)-sym-triazine	Not determined	Not determined	Not determined	Not determined
Ethanolamine (Impurity)	3 ppm STEL 7.5 mg/m ³ STEL Skin 1 ppm TWA VLA-ED 2.5 mg/m ³ TWA VLA-ED	4 ppm STEL 10 mg/m ³ STEL 2 ppm TWA MAK 5 mg/m ³ TWA MAK	3 ppm STEL 7.6 mg/m ³ STEL Skin 1 ppm TWA 2.5 mg/m ³ TWA	3 ppm STEL 7.6 mg/m ³ STEL Skin 1 ppm TWA 2.5 mg/m ³ TWA
Formaldehyde (impurity)	0.3 ppm STEL; 0.37 mg/m ³ STEL	0.3 ppm TWA; 0.37 mg/m ³ TWA	Not determined	2 ppm TWA; 2.5 mg/m ³ TWA

Derived No Effect Level (DNEL)

Long term exposure local effects

Hexahydro-1,3,5-tris(2-hydroxyethyl)-sym-triazine

Inhalation 0.2 mg/m³

Predicted No Effect Concentration (PNEC)

Hexahydro-1,3,5-tris(2-hydroxyethyl)-sym-triazine

Fresh Water 0.007 mg/l
Sea Water 0.001 mg/L
Freshwater sediment 0.03 mg/kg
Sea sediment 0.003 mg/kg
Soil 0.002 mg/kg
Impact on sewage treatment 5.5 mg/l
Intermittent release 0.007 mg/L

8.2 Exposure controls

All chemical Personal Protective Equipment (PPE) should be selected based on an assessment of both the chemical hazard present and the risk of exposure to those hazards. The PPE recommendations below are based on an assessment of the chemical hazards associated with this product. Where this product is used in a mixture with other products or fluids, additional hazards may be created and as such further assessment of risk may be required. The risk of exposure and need of respiratory protection will vary from workplace to workplace and should be assessed by the user in each situation.

Engineering Controls

Ensure adequate ventilation. Local exhaust ventilation. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

Personal protective equipment

Eye protection

Use eye protection according to EN 166, designed to protect against liquid splashes.
Chemical splash goggles and face shield.

Hand protection

Wear chemically resistant gloves (tested to EN 374) in combination with 'basic' employee training
Impervious gloves made of: Nitrile Neoprene Butyl Rubber
Break through time >480 minutes
Glove thickness ≥0.4 mm

Respiratory protection

Be aware that liquid may penetrate the gloves. Frequent change is advisable.
Use respirator with organic vapor protection (A, brown), If there are conditions in which this

Skin and body protection

triazine containing product produces a vapour, a chemical respirator with A1 + Formaldehyde and P3 particulate pre-filter combination would be required. Wear suitable protective clothing, Eye wash and emergency shower must be available at the work place.

Hygiene Measures

Wash hands before eating, drinking or smoking, Remove and wash contaminated clothing before re-use.



8.2.3 Environmental exposure controls

Environmental exposure

Use appropriate containment to avoid environmental contamination See section 6 for more information

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Clear
Odour	Amine
Colour	Colourless - Pale yellow
Odour threshold	Not applicable

Property	Values	Remarks
pH	10.0 - 11.5	
pH @ dilution		
Melting / freezing point	No information available	
Boiling point/range	No information available	
Flash point	67 °C / 152.6 °F	ASTM D 93-11
Evaporation rate	No information available	
Flammability (solid, gas)	Not applicable	
Flammability Limit in Air		
Upper flammability limit	Not applicable	
Lower flammability limit	Not applicable	
Vapour pressure	No information available	
Vapour density	No information available	
Specific gravity	No information available	
Bulk density	No information available	
Relative density	No information available	
Water solubility	Soluble in water	
Solubility in other solvents	No information available	
Autoignition temperature	Not applicable	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	No information available	
log Pow	No information available	
Explosive properties	Not applicable	

Oxidising properties	None known
9.2 Other information	
Pour point	< -20°C / -4°F
Molecular weight	No information available
VOC content(%)	None
Density	1.05 - 1.15 g/ml @ 20°C

Comments

The data listed above are typical physical and chemical properties and should not be construed as product specification.

10. Stability and Reactivity

10.1 Reactivity

Contact with strong acids develops formaldehyde.

10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

10.3 Possibility of Hazardous Reactions

Hazardous polymerisation

Hazardous polymerisation does not occur.

10.4 Conditions to avoid

Avoid heat, flames and other sources of ignition. Avoid frost.

10.5 Incompatible materials

Strong oxidising agents. Strong acids.

10.6 Hazardous decomposition products

See Section 5.2.

11. Toxicological Information

11.1 Information on toxicological effects

Acute toxicity

Product information

This product may contain or release trace amounts of formaldehyde. The International Agency for Research on Cancer (IARC) has classified formaldehyde as a Group 1 carcinogen (limited evidence in humans, sufficient evidence in animals). Exposure to formaldehyde has been linked to adverse reproductive effects in some human and animal studies. In other reproductive studies, however, no adverse effects were noted. (Meditext). Formaldehyde may also cause skin sensitisation (allergic reaction).

Inhalation

Fatal if inhaled. Causes damage to organs through prolonged or repeated exposure.

Eye contact

Causes serious eye irritation.

Skin contact Causes skin irritation. May cause an allergic skin reaction.

Ingestion Harmful if swallowed. May cause additional affects as listed under "Inhalation".

Unknown acute toxicity Not applicable.

Toxicology data for the components

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hexahydro-1,3,5-tris(2-hydroxyethyl)-sym-triazine	1000 mg/kg (Rat) (BASF AG, 1997)	> 4000 mg/kg (Rat) (BASF AG, 1997)	0.371 mg/L (Aerosol) (Rat) (Triazine Taskforce, 2011)
Ethanolamine (Impurity)	= 1720 mg/kg (Rat)	= 1000 mg/kg (Rabbit) = 1 mL/kg (Rabbit)	No data available
Formaldehyde (impurity)	= 100 mg/kg (Rat)	= 270 mg/kg (Rabbit)	= 0.578 mg/L (Rat) 4 h

Sensitisation May cause allergic skin reaction.

Mutagenic effects This product does not contain any known or suspected mutagens.

Carcinogenicity Formaldehyde is listed by IARC in Group 1 as carcinogenic to humans.

Reproductive toxicity This product does not contain any known or suspected reproductive hazards.

Routes of exposure Inhalation (Aerosol). Skin contact. Eye contact. Ingestion.

Routes of entry Inhalation. Skin contact. Ingestion. Eye contact.

Specific target organ toxicity - Single exposure Not classified

Specific target organ toxicity - Repeated exposure Category 1.

Target organ effects Respiratory system.

Aspiration hazard Not applicable.

Other information Key literature references and sources for data. See Section 16 for more information.

12. Ecological Information

12.1 Toxicity

The product component(s) are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

Toxicity to algae
See component information below.

Toxicity to fish

See component information below.

Toxicity to daphnia and other aquatic invertebrates

See component information below.

Toxicology data for the components

Chemical Name	Toxicity to fish	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates
Hexahydro-1,3,5-tris(2-hydroxyethyl)-sym-triazine	> 168 mg/l LC50 96h Sheepshead Minnow (SLB data)	1.624 mg/l EC50 72h Skeletonema (SLB data)	99.68 mg/l KC50 48h Acartia (SLB data)
Ethanolamine (Impurity)	114 - 196 mg/L LC50 Oncorhynchus mykiss 96 h = 227 mg/L LC50 Pimephales promelas 96 h = 3684 mg/L LC50 Brachydanio rerio 96 h 300 - 1000 mg/L LC50 Lepomis macrochirus 96 h > 200 mg/L LC50 Oncorhynchus mykiss 96 h	= 15 mg/L EC50 Desmodesmus subspicatus 72 h	= 65 mg/L EC50 Daphnia magna 48 h
Formaldehyde (impurity)	22.6 - 25.7 mg/L LC50 Pimephales promelas 96 h = 1510 µg/L LC50 Lepomis macrochirus 96 h = 41 mg/L LC50 Brachydanio rerio 96 h 0.032 - 0.226 mL/L LC50 Oncorhynchus mykiss 96 h 100 - 136 mg/L LC50 Oncorhynchus mykiss 96 h 23.2 - 29.7 mg/L LC50 Pimephales promelas 96 h	No information available	11.3 - 18 mg/L EC50 Daphnia magna 48 h = 2 mg/L LC50 Daphnia magna 48 h

12.2 Persistence and degradability

See component information below.

Chemical Name	Persistence and degradability
Hexahydro-1,3,5-tris(2-hydroxyethyl)-sym-triazine	Readily biodegradable
Ethanolamine (Impurity)	Readily biodegradable
Formaldehyde (impurity)	Rapidly biodegradable

12.3 Bioaccumulative potential

See component information below.

Chemical Name	Bioaccumulation
Hexahydro-1,3,5-tris(2-hydroxyethyl)-sym-triazine	Not likely to bioaccumulate log Kow ≤ 3
Ethanolamine (Impurity)	Product does not bioaccumulate due to reaction with water
Formaldehyde (impurity)	Does not bioaccumulate log Pow = 0.35

12.4 Mobility

Mobility

See component information below.

Chemical Name	Mobility
Hexahydro-1,3,5-tris(2-hydroxyethyl)-sym-triazine	Soluble in water

Mobility in soil

See component information below.

Chemical Name	Mobility in soil
Hexahydro-1,3,5-tris(2-hydroxyethyl)-sym-triazine	Study does not need to be conducted because the substance is readily biodegradable
Ethanolamine (Impurity)	Study does not need to be conducted because the substance is readily biodegradable

12.5 Results of PBT and vPvB assessment

Not classified as PBT/vPvB by current EU criteria.

12.6 Other adverse effects.

None known.

12.7 Other information

Key literature references and sources for data. See Section 16 for more information.

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.
EWC Waste Disposal No	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific Waste codes should be assigned by the user based on the application for which the product was used The following Waste Codes are only suggestions: EWC waste disposal No: 07 01 04 Waste Code: 7152 Organic waste without halogen.

14. Transport information

14.1. UN number

UN/ID No. (ADR/RID/ADN/ADG)	UN2810
UN No. (IMDG)	UN2810
UN No. (ICAO/ANAC)	UN2810

14.2. UN proper shipping name

TOXIC LIQUID, ORGANIC, N.O.S. (Hexahydro-1,3,5-tris(2-hydroxyethyl)-sym-triazine)

14.3. Hazard class(es)

ADR/RID/ADN/ADG Hazard class	6.1
IMDG Hazard class	6.1
ICAO Hazard class/division	6.1

14.4 Packing group

ADR/RID/ADN/ADG Packing Group	II
IMDG Packing group	II
ICAO Packing group	II



14.5 Environmental hazard

No

14.6 Special precautions

Hazard ID	60
EmS (IMDG)	F-A, S-A
Emergency Action Code (EAC)	2X
Tunnel restriction code	(D/E)

14.7 Transport in bulk according to Annex I/II of MARPOL 73/78 and the IBC Code

Please contact SDS@slb.com for info regarding transport in Bulk.

15. Regulatory Information

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

Germany, Water Endangering Classes (VwVwS) Hazardous to water/Class 1

Technical Rules for Hazardous Substances (TRGS) TRGS 905 List of substances that are carcinogenic, mutagenic or toxic for reproduction
TRGS 907 List of sensitizing substances and activities involving sensitizing substances
TRGS 510 Storage of hazardous substances in non stationary containers
TRGS 220 National aspects when compiling safety data sheets
TRGS 900 Occupational exposure limits

Australian Standard for the Uniform Scheduling of Drugs and Poisons

Ethanolamine (Impurity)
Schedule 4
Schedule 6
Schedule 5
Formaldehyde (impurity)
Schedule 6

Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

This safety data sheet complies with the requirements of Regulation (EC) No. 1272/2008.

Dutch Mining Regulations: In accordance with Mining Regulations 9.2 and Chapter 4 of the Working Conditions Decree.

International inventories

USA, Toxic Substances Control Act inventory (TSCA)	Complies
Canada (DSL)	Complies
Philippines (PICCS)	Complies
Inventory - Japan - Existing and New Chemicals list	Complies
China (IECSC)	Complies
Australia (AICS)	Complies
Korea (KECL)	Complies
Inventory - New Zealand - Inventory of Chemicals (NZIoC)	Complies

Europe - REACH

All products supplied from the European Economic Area (EEA) are compliant with the REACH Regulation EC 1907/2006. For products supplied from the EEA, Schlumberger and/or its suppliers have pre-registered and is registering all of the substances that it and/or its suppliers manufactures in or imports into the EEA that are subject to Title II of the REACH Regulation. All products supplied from outside the EEA are subject to REACH only if imported into the EEA. The importer of the products must comply with REACH for each imported substance. Contact REACH@slb.com for REACH information.

Norway Pr. no.	303850
Denmark Pr. no.	2303866

15.2 Chemical Safety Report

No information available

16. Other Information

Prepared by	Global Regulatory Compliance - Chemicals (GRC - Chemicals) , Anne Karin (Anka) Fosse
Supersedes date	24/Nov/2017
Revision date	02/Feb/2018
Version	4
This SDS has been revised in the following section(s)	All sections There have been changes with regard to classification.

Key literature references and sources for data

www.ChemADVISOR.com

Supplier

National Chemical Inventories

National regulatory information

National occupational exposure limits

Training advice:

Do not handle until all safety precautions have been read and understood

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

H302 - Harmful if swallowed

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H330 - Fatal if inhaled

H372 - Causes damage to organs through prolonged or repeated exposure

H301 - Toxic if swallowed

H311 - Toxic in contact with skin

H312 - Harmful in contact with skin

H314 - Causes severe skin burns and eye damage

H331 - Toxic if inhaled

H332 - Harmful if inhaled

H335 - May cause respiratory irritation

H341 - Suspected of causing genetic defects

H350 - May cause cancer

*A mark of M-I L.L.C., a Schlumberger Company

Disclaimer

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