

SAFETY DATA SHEET

1-15% SCALETREAT TP 8385 in NaCl Brine

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Revision Date: 24-Jan-2023
Preparation Date 24-Jan-2023

Revision Number: 3
Internal ID Code HM009785

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product Identifier

Product Name 1-15% SCALETREAT TP 8385 in NaCl Brine
Internal ID Code HM009785

Other means of identification

Pure substance/mixture Mixture

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

Recommended Use Scale Inhibitor / Brine

Sector of uses SU2 - Mining, (including offshore industries)
Uses advised against Consumer use

1.3. Details of the supplier of the safety data sheet

Halliburton BV
Columbusstraat 19
7825VP
Emmen
Netherlands
www.halliburton.com

For further information, please contact:

E-mail Address: fdunexchem@halliburton.com

1.4. Emergency telephone number

+44 8 08 189 0979 / 1-760-476-3961
Global Incident Response Access Code: 334305
Contract Number: 14012

| Emergency telephone - Article 45 - (EC)1272/2008 | |
|--|---|
| Austria | Poison Information Centre (AT): +43-(0)1-406 43 43 |
| Belgium | Poison center (BE): +32 70 245 245 |
| Bulgaria | Bulgarian poison centre: +359 2 915-44-09 or +359 2 915-43-46 |
| Croatia | Centar za kontrolu otrovanja (CKO): (+385 1) 23-48-342 (Poison Control Center (PCC) - Institute for Medical Research and Occupational Health) |
| Cyprus | 1401 |
| Czech Republic | +420 224 919 293; +420 224 915 402 |
| Denmark | Poison Control Hotline (DK): +45 82 12 12 12 |
| Estonia | 16662 (Local Poison Information Centre); (+372) 626 93 90 (International Poison Information Centre) |
| Europe | 112 |
| Finland | Poison Information Centre (FI):+358 9 471 977 |
| France | ORFILA (FR): + 01 45 42 59 59 |
| Germany | Poison Center Berlin (DE): +49 030 30686 790 |
| Greece | +30 210 779 3777 |
| Hungary | +36 (06) 80 201-199 |
| Iceland | 543 2222 / 543 1000 |

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| | |
|-----------------------|---|
| Ireland | National Poisons Information Centre (IE): +353 1 8379964 |
| Italy | Poison Center, Milan (IT): +39 02 6610 1029 |
| Latvia | (+371) 67042473 (International number for the National Toxicology Centre) |
| Lithuania | +370 (85) 2362052 |
| Luxembourg | (+352) 8002 5500 |
| Malta | 2122 4071 |
| Netherlands | National Poisons Information Center (NL): +31 30 274 88 88 (NB: this service is only available to health professionals) |
| Norway | Poisons Information (NO):+ 47 22 591300 |
| Poland | Poison Control and Information Centre, Warsaw (PL): +48 22 619 66 54; +48 22 619 08 97 |
| Portugal | CIAV - Centro de Informação Antivenenos (Portuguese Poison Centre): + 351 213 303 271 |
| Romania | +40 21 318 36 06 |
| Slovakia | +421 2 4854 4511 |
| Slovenia | 112 |
| Spain | Poison Information Service (ES): +34 91 562 04 20 |
| Sweden | Poisons Information Center (SV):+46 8 33 12 31 |
| Switzerland | Poison Center: Tel 145; +41 44 251 51 51 |
| Turkey | Ulusal Zehir Danisma Merkezi (UZEM) :114 Acil Saglik Hizmetleri : 112 |
| United Kingdom | NHS Direct (UK): +44 0845 46 47 |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

| | |
|--|-------------------|
| Acute Oral Toxicity | Category 4 - H302 |
| Acute toxicity - Dermal | Category 4 - H312 |
| Skin Corrosion/Irritation | Category 1 - H314 |
| Specific Target Organ Toxicity - (Repeated Exposure) | Category 2 - H373 |
| Chronic Aquatic Toxicity | Category 3 - H412 |

Additional information: No information available

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

2.2. Label Elements

Hazard Pictograms



Signal Word:

Danger

Hazard Statements:

H302 - Harmful if swallowed

H312 - Harmful in contact with skin

H314 - Causes severe skin burns and eye damage

H373 - May cause damage to organs through prolonged or repeated exposure

H412 - Harmful to aquatic life with long lasting effects

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Precautionary Statements:

P260 - Do not breathe dust/fume/gas/mist/vapors/spray
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P301+ P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Contains

| Substances | CAS Number |
|---|------------|
| Carboxylated / phosphonated sodium allyl sulphonate polymer - | |
| Ethylene glycol | 107-21-1 |

Additional information: No information available

2.3. Other Hazards

None known

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors

| Substances | CAS Number | EU - REACH (1907/2006) - Article 59(1) - Candidate List of Substances of Very High Concern (SVHC) for Authorisation | EU - REACH (1907/2006) - Endocrine Disruptor Assessment List of Substances | Endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100(3) or Commission Regulation (EU) 2018/605(4) |
|---|------------|---|--|--|
| Carboxylated / phosphonated sodium allyl sulphonate polymer | - | - | - | - |
| Ethylene glycol | 107-21-1 | - | - | - |

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Mixture

| Substances | EINECS | CAS Number | REACH Reg. No | PERCENT (w/w) | EU - CLP Substance Classification |
|---|-----------|------------|------------------|---------------|---|
| Carboxylated / phosphonated sodium allyl sulphonate polymer | - | - | - | 5 - 10% | Acute Tox. 4 (H302) Acute Tox. 4 (H312) Skin Corr. 1B (H314) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412) |
| Ethylene glycol | 203-473-3 | 107-21-1 | 01-2119456816-28 | 1 - 5% | Acute Tox. 4 (H302) STOT RE 2 (H373) |

| Substances | EINECS | PERCENT (w/w) | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) |
|-----------------|-----------|---------------|------------------------------------|----------|----------------------|
| Ethylene glycol | 203-473-3 | 1 - 5% | - | - | - |

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

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

| Substances | CAS Number | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|----------------|------------|-------------------|-------------------|-------------------|
| Carboxylated / | - | No data available | No data available | No data available |

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| | | | | |
|--|----------|-----------------------|---------------------|--|
| phosphonated sodium allyl sulphonate polymer | | | | |
| Ethylene glycol | 107-21-1 | 1400 mg/kg bw (Human) | 9530 mg/kg (Rabbit) | > 2.5 mg/L (Rat, mist, 6h) (saturated concentration) |

Rat = Rat, Rabbit = Rabbit, dust = dust

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Additional information: No information available

SECTION 4: First aid measures

4.1. Description of 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 | Flush skin with large amounts of water. If irritation persists, get medical attention. |
| Ingestion | Do NOT induce vomiting. Rinse mouth with water many times. Get medical attention, if symptoms occur |
| Protection of First-aiders | No information available. |

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

Harmful if swallowed. Harmful in contact with skin. Causes severe skin burns and eye damage. May cause damage to organs through prolonged or repeated exposure.

4.3. Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media

Alcohol foam Water spray. Carbon dioxide (CO₂). Foam. Dry powder

Extinguishing media which must not be used for safety reasons

Water spray jet

5.2. Special hazards arising from the substance or mixture

Special exposure hazards in a fire

Oxides of sulfur. Carbon oxides.

5.3. Advice for firefighters

Special protective equipment for firefighters

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

See Section 8 for additional information.

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6.2. Environmental precautions

Prevent from entering sewers, waterways, or low areas. Prevent contamination of soil.

6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Flush area with water. Contain spill with sand or other inert materials.

6.4. Reference to other sections

See Section 8 and 13 for additional information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Ensure adequate ventilation. Avoid contact with eyes, skin, or clothing. Avoid breathing vapors.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a cool, well ventilated place

7.3. Specific end use(s)

Exposure scenario

No information available

Other Guidelines

No information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

| Substances | CAS Number | EU | UK | Netherlands | France |
|---|------------|---|--|---|---|
| Carboxylated / phosphonated sodium allyl sulphonate polymer | - | Not applicable | Not applicable | Not applicable | Not applicable |
| Ethylene glycol | 107-21-1 | TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ | TWA: 10 mg/m ³ TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ STEL: 30 mg/m ³ | TWA: 52 mg/m ³ TWA: 10 mg/m ³ STEL: 104 mg/m ³ | TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ |

| Substances | CAS Number | Germany | Spain | Portugal | Finland |
|---|------------|--|--|---|---|
| Carboxylated / phosphonated sodium allyl sulphonate polymer | - | Not applicable | Not applicable | Not applicable | Not applicable |
| Ethylene glycol | 107-21-1 | TWA: 10 ppm TWA: 26 mg/m ³ Peak: 20 ppm Peak: 52 mg/m ³ | TWA: 20 ppm TWA: 52 mg/m ³ 40 ppm STEL [VLA-EC]; 104 mg/m ³ STEL [VLA-EC] | TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ Ceiling: 100 mg/m ³ | TWA: 20 ppm TWA: 50 mg/m ³ STEL: 40 ppm STEL: 100 mg/m ³ |

| Substances | CAS Number | Austria | Ireland | Switzerland | Norway |
|---|------------|--|--|--|---|
| Carboxylated / phosphonated sodium allyl sulphonate polymer | - | Not applicable | Not applicable | Not applicable | Not applicable |
| Ethylene glycol | 107-21-1 | TWA: 10 ppm TWA: 26 mg/m ³ STEL: 20 ppm STEL: 52 mg/m ³ | 10 mg/m ³ TWA (particulate); 20 ppm TWA (vapour); 52 mg/m ³ TWA (vapour) 40 ppm STEL | TWA: 10 ppm TWA: 26 mg/m ³ STEL: 20 ppm STEL: 52 mg/m ³ | TWA: 20 ppm TWA: 52 mg/m ³ STEL: 104 mg/m ³ STEL: 40 ppm |

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| | | | | | |
|--|--|--|---|--|--|
| | | | (vapour); 30 mg/m ³ STEL (calculated, particulate); 104 mg/m ³ STEL (vapour) | | |
|--|--|--|---|--|--|

| Substances | CAS Number | Italy | Poland | Hungary | Czech Republic |
|---|------------|---|---|--|---------------------------|
| Carboxylated / phosphonated sodium allyl sulphonate polymer | - | Not applicable | Not applicable | Not applicable | Not applicable |
| Ethylene glycol | 107-21-1 | TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ | TWA: 15 mg/m ³ STEL: 50 mg/m ³ | TWA: 52 mg/m ³ STEL: 104 mg/m ³ | TWA: 50 mg/m ³ |

| Substances | CAS Number | Denmark | Romania | Croatia | Cyprus |
|---|------------|---|---|---|---|
| Carboxylated / phosphonated sodium allyl sulphonate polymer | - | Not applicable | Not applicable | Not applicable | Not applicable |
| Ethylene glycol | 107-21-1 | TWA: 10 ppm TWA: 26 mg/m ³ TWA: 10 mg/m ³ | TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ | TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ | TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ |

| Substances | CAS Number | Bulgaria | Turkey |
|-----------------|------------|---|---|
| Ethylene glycol | 107-21-1 | TWA: 52 mg/m ³ TWA: 20 ppm STEL: 40 ppm STEL: 104 mg/m ³ | TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ |

Derived No Effect Level (DNEL)

No information available

Worker

| Substances | Long-term exposure - systemic effects, Inhalation | Acute / short term exposure - systemic effects, Inhalation | Long-term exposure - local effects, Inhalation | Acute / short term exposure - local effects, Inhalation | Long-term exposure - systemic effects, Dermal | Acute / short term exposure - systemic effects, Dermal | Long-term exposure - local effects, Dermal | Acute / short term exposure - local effects, Dermal | Hazards for the eyes - local effects |
|-----------------|---|--|--|---|---|--|--|---|--------------------------------------|
| Ethylene glycol | Not available | Not available | 35 mg/m ³ | Not available | 106 mg/kg bw/day | Not available | Not available | Not available | Not available |

General Population

| Substances | Long-term exposure - systemic effects, Inhalation | Acute / short term exposure - systemic effects, Inhalation | Long-term exposure - local effects, Inhalation | Acute / short term exposure - local effects, Inhalation | Long-term exposure - systemic effects, Dermal | Acute / short term exposure - systemic effects, Dermal | Long-term exposure - local effects, Dermal | Acute / short term exposure - local effects, Dermal | Long-term exposure - systemic effects, Oral | Acute / short term exposure - local effects, Oral | Hazards for the eyes - local effects |
|-----------------|---|--|--|---|---|--|--|---|---|---|--------------------------------------|
| Ethylene glycol | Not available | Not available | 7 mg/m ³ | Not available | 53 mg/kg bw/day | Not available | Not available | Not available | Not available | Not available | Not available |

Predicted No Effect Concentration (PNEC)

No information available.

| Substances | Freshwater | Marine water | Intermittent release | Sewage treatment plant | Sediment (freshwater) | Sediment (marine water) | Air | Soil | Secondary poisoning |
|-----------------|------------|--------------|----------------------|------------------------|-----------------------|-------------------------|---------------|--------------------|---------------------|
| Ethylene glycol | 10 mg/L | 1 mg/L | 10 mg/L | 199.5 mg/L | 37 mg/kg sediment dw | 3.7 mg/kg sediment dw | Not available | 1.53 mg/kg soil dw | Not available |

8.2. Exposure controls

Engineering Controls

Personal protective equipment must be CE marked and should be selected in collaboration with the supplier of such equipment.

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The recommended protective equipment and the specified standards are indicative. Standards should be of the latest version. Risk assessment of the actual workplace / operation (actual risk) may result in other protective measures. The suitability and durability of the protective equipment will depend on the application.

| | |
|--|---|
| 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 | When the potential exists for aerosols or mists of this product to be created, use a respirator with a particulate filter for oil aerosols or a supplied-air respirator as needed for adequate 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. |
| Hand Protection | Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): Nitrile gloves. |
| Skin Protection | Wear impervious protective clothing, including boots, gloves, lab coat, apron, rain jacket, pants or coverall, as appropriate, to prevent skin contact. |
| Eye Protection | Splashproof chemical monogoggles or safety glasses with side shields in conjunction with a face shield. (EN-166) |
| Other Precautions | Eyewash fountains and safety showers must be easily accessible. |
| Environmental Exposure Controls | Do not allow material to contaminate ground water system. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | | |
|---|-------------------|--------------------------|
| Physical State: Liquid | Color | Light yellow |
| Odor: Mild | Odor | No information available |
| <u>Property</u> | Threshold: | |
| <u>Remarks/ - Method</u> | <u>Values</u> | |
| pH: | 6.0 | |
| Freezing Point / Range | No data available | |
| Melting Point / Range | No data available | |
| Boiling Point / Range | No data available | |
| Flash Point | 100 °C | |
| Flammability (solid, gas) | No data available | |
| Upper flammability limit | No data available | |
| Lower flammability limit | No data available | |
| Evaporation rate | No data available | |
| Vapor Pressure | No data available | |
| Relative Vapor Density | No data available | |
| Relative Density | 1.070 | |
| Water Solubility | Soluble in water | |
| Solubility in other solvents | No data available | |
| Partition coefficient: n-octanol/water | No data available | |
| Autoignition Temperature | No data available | |
| Decomposition Temperature | No data available | |

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| | |
|-----------------------------|--------------------------|
| Viscosity | No data available |
| Explosive Properties | No information available |
| Oxidizing Properties | No information available |

9.2. Other information

| | |
|---------------------------|-------------------|
| Pour Point / Range | No data available |
| VOC Content (%) | No data available |

9.2.1 Information with regard to physical hazard classes No information available

9.2.2. Other safety characteristics No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Not expected to be reactive.

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

Can react with strong oxidizing agents.

10.4. Conditions to avoid

Excessive heat

10.5. Incompatible materials

Oxidizing agents

10.6. Hazardous decomposition products

Oxides of sulfur. Carbon oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute Toxicity

| | |
|---------------------|---|
| Inhalation | May cause mild respiratory irritation. |
| Eye Contact | Causes eye damage. |
| Skin Contact | Harmful in contact with skin. Causes severe burns. |
| Ingestion | May cause abdominal pain, vomiting, nausea, and diarrhea. |

Chronic Effects/Carcinogenicity May cause damage to organs through prolonged or repeated exposure.

Toxicology data for the components

| Substances | CAS Number | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---|------------|-----------------------|---------------------|--|
| Carboxylated / phosphonated sodium allyl sulphonate polymer | - | No data available | No data available | No data available |
| Ethylene glycol | 107-21-1 | 1400 mg/kg bw (Human) | 9530 mg/kg (Rabbit) | > 2.5 mg/L (Rat, mist, 6h) (saturated concentration) |

Rat = Rat, Rabbit = Rabbit, dust = dust

| Substances | CAS Number | Skin corrosion/irritation |
|-----------------|------------|-------------------------------------|
| Ethylene glycol | 107-21-1 | Non-irritating to the skin (Rabbit) |

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| Substances | CAS Number | Serious eye damage/irritation |
|-----------------|------------|------------------------------------|
| Ethylene glycol | 107-21-1 | Non-irritating to the eye (Rabbit) |

| Substances | CAS Number | Skin Sensitization |
|-----------------|------------|--|
| Ethylene glycol | 107-21-1 | Did not cause sensitization on laboratory animals (guinea pig) Patch test on human volunteers did not demonstrate sensitization properties |

| Substances | CAS Number | Respiratory Sensitization |
|-----------------|------------|---------------------------|
| Ethylene glycol | 107-21-1 | No information available |

| Substances | CAS Number | Mutagenic Effects |
|-----------------|------------|--|
| Ethylene glycol | 107-21-1 | In vitro tests did not show mutagenic effects. In vivo tests did not show mutagenic effects. |

| Substances | CAS Number | Carcinogenic Effects |
|-----------------|------------|---|
| Ethylene glycol | 107-21-1 | Did not show carcinogenic effects in animal experiments |

| Substances | CAS Number | Reproductive toxicity |
|-----------------|------------|--|
| Ethylene glycol | 107-21-1 | Data are inconclusive or insufficient for classification. Fetotoxic and teratogenic effects observed in experimental animals at concentrations that did not produce maternal toxicity. |

| Substances | CAS Number | STOT - single exposure |
|-----------------|------------|---|
| Ethylene glycol | 107-21-1 | May cause disorder and damage to the Kidney; Central Nervous System (CNS) |

| Substances | CAS Number | STOT - repeated exposure |
|-----------------|------------|--|
| Ethylene glycol | 107-21-1 | Causes damage to organs through prolonged or repeated exposure: Kidney |

| Substances | CAS Number | Aspiration hazard |
|-----------------|------------|--------------------------|
| Ethylene glycol | 107-21-1 | No information available |

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors

11.2.2 Other Information

Other Adverse Effects No information available

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity effects

Harmful to aquatic life with long lasting effects.

| Substances | CAS Number | Toxicity to Algae | Toxicity to Fish | Toxicity to Microorganisms | Toxicity to Invertebrates |
|---|------------|------------------------------|---|----------------------------|---------------------------------------|
| Carboxylated / phosphonated sodium allyl sulphonate polymer | - | No information available | No information available | No information available | No information available |
| Ethylene glycol | 107-21-1 | EC50 (72h) 6500 - 13000 mg/L | LC50 (96h) 72860 mg/L (Pimephales promelas) | No information available | EC50(48 hr)>100 mg/L (Daphnia magna) |

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| | | | |
|--|-----------------------------|---|---|
| | (Selenastrum capricornutum) | NOEC (7d) 15380 mg/L (Pimephales promelas) | NOEC (7d) 8590 mg/L (Ceriodaphnia dubia) |
|--|-----------------------------|---|---|

growth rate = growth rate, similar substance = similar substance, activated sludge = activated sludge, reproduction = reproduction

12.2. Persistence and degradability

| Substances | CAS Number | Persistence and Degradability |
|---|------------|------------------------------------|
| Carboxylated / phosphonated sodium allyl sulphonate polymer | - | No information available |
| Ethylene glycol | 107-21-1 | Readily biodegradable (100% @ <4d) |

12.3. Bioaccumulative potential

Bioaccumulative Potential

| Substances | CAS Number | Bioaccumulation |
|---|------------|--------------------------|
| Carboxylated / phosphonated sodium allyl sulphonate polymer | - | No information available |
| Ethylene glycol | 107-21-1 | LogKow-1.36 |

12.4. Mobility in soil

| Substances | CAS Number | Mobility |
|---|------------|--------------------------|
| Carboxylated / phosphonated sodium allyl sulphonate polymer | - | No information available |
| Ethylene glycol | 107-21-1 | No information available |

12.5. Results of PBT and vPvB assessment

| Substances | PBT and vPvB assessment |
|-----------------|-------------------------|
| Ethylene glycol | Not PBT/vPvB |

12.6 Endocrine disrupting properties

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors

12.7 Other adverse effects

No information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Dispose in accordance with local regulations.
Contaminated Packaging Follow all applicable national or local regulations.

SECTION 14: Transport information

IMDG/IMO

UN Number UN3265
UN proper shipping name: Corrosive Liquid, Acidic, Organic, N.O.S. (Carboxylated / phosphonated sodium allyl sulphonate polymer)
Transport Hazard Class(es): 8
Packing Group: III
Environmental Hazards: Not applicable

ADN

SAFETY DATA SHEET

1-15% SCALETREAT TP 8385 in NaCl Brine

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Revision Date: 24-Jan-2023
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Revision Number: 3
Internal ID Code HM009785

UN Number UN3265
UN proper shipping name: Corrosive Liquid, Acidic, Organic, N.O.S. (Carboxylated / phosphonated sodium allyl sulphonate polymer)
Transport Hazard Class(es): 8
Packing Group Not applicable
Environmental Hazards: Not applicable

ADR/RID

UN Number UN3265
UN proper shipping name: Corrosive Liquid, Acidic, Organic, N.O.S. (Carboxylated / phosphonated sodium allyl sulphonate polymer)
Transport Hazard Class(es): 8
Packing Group Not applicable
Environmental Hazards: Not applicable

IATA/ICAO

UN Number UN3265
UN proper shipping name: Corrosive Liquid, Acidic, Organic, N.O.S. (Carboxylated / phosphonated sodium allyl sulphonate polymer)
Transport Hazard Class(es): 8
Packing Group: III
Environmental Hazards: Not applicable

14.1. UN Number UN3265

14.2. UN proper shipping name: Corrosive Liquid, Acidic, Organic, N.O.S. (Carboxylated / phosphonated sodium allyl sulphonate polymer)

14.3. Transport Hazard Class(es): 8

14.4. Packing Group Not applicable

14.5. Environmental Hazards: Not applicable

14.6. Special Precautions for User None

14.7. Maritime transport in bulk according to IMO instruments No information available

SECTION 15: Regulatory information

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

International Inventories

US TSCA Inventory Product contains one or more components not listed on the inventory.

Canadian Domestic Substances List (DSL) Product contains one or more components not listed on the inventory.

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

Germany, Water Endangering Classes (WGK) WGK 1: Low hazard to waters.

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

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Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

| Substances | CAS Number | Seveso III | TA LUFT |
|---|------------|----------------|----------------|
| Carboxylated / phosphonated sodium allyl sulphonate polymer | - | Not applicable | Not applicable |
| Ethylene glycol | 107-21-1 | Not applicable | Not applicable |

| Substances | CAS Number | REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances | REACH (1907/2006) - Annex XIV - Substances Subject to Authorization |
|---|------------|---|---|
| Carboxylated / phosphonated sodium allyl sulphonate polymer | - | Not applicable | Not applicable |
| Ethylene glycol | 107-21-1 | Not applicable | Not applicable |

15.2. Chemical safety assessment

No information available

SECTION 16: Other information

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

H302 - Harmful if swallowed
H312 - Harmful in contact with skin
H314 - Causes severe skin burns and eye damage
H318 - Causes serious eye damage
H373 - May cause damage to organs through prolonged or repeated exposure
H412 - Harmful to aquatic life with long lasting effects

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

bw – body weight
CAS – Chemical Abstracts Service
CLP – REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on Classification, Labelling and Packaging of substances and mixtures
EC – European Commission
EC10 – Effective Concentration 10%
EC50 – Effective Concentration 50%
EEC – European Economic Community
ErC50 – Effective Concentration growth rate 50%
IBC Code – International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
LC50 – Lethal Concentration 50%
LD50 – Lethal Dose 50%
LL0 – Lethal Loading 0%
LL50 – Lethal Loading 50%
MARPOL – International Convention for the Prevention of Pollution from Ships
mg/kg – milligram/kilogram
mg/L – milligram/liter
NIOSH – National Institute for Occupational Safety and Health
NOEC – No Observed Effect Concentration
NTP – National Toxicology Program
OEL – Occupational Exposure Limit
PBT – Persistent Bioaccumulative and Toxic
PC – Chemical Product category
PEL – Permissible Exposure Limit
ppm – parts per million
PROC – Process category
REACH – REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals

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STEL – Short Term Exposure Limit
SU – Sector of Use category

Key literature references and sources for data
www.ChemADVISOR.com/

Revision Date: 24-Jan-2023
Reason for Revision Update to Format

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End of Safety Data Sheet