

SAFETY DATA SHEET (SDS)

SDS Compliant with REACH Regulation (EC) No 1907/2006 – N° 453/2010

SILFIX® HM

Version No. 3

Revision Date:
30/08/2019

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SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1. Product identifier.	Product Name: Silfix® HM.	
1.2. Relevant identified uses of the substance or mixture and uses advised against.	Identified uses: Cartridge applied sealant. Uses advised against: Any other use than the advised purpose.	
1.3. Details of the supplier of the datasheet.	Hodgson Sealants (Holdings) Limited Belprin Road Beverley East Yorkshire HU17 0LN	Tel: + 44 (0)1482 868321 Fax: + 44 (0)1482 679337 E-mail: SDS@hodgsonsealants.com
1.4. Emergency Phone Number (24 hours)	Tel: E-mail:	+44(0)333 600 2424 24-7emergencyadvice@ohes.co.uk

SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture. 2.1.1. Classification according to regulation (EC) No 1272/2008 [CLP].	This mixture does not meet the criteria for classification in accordance with regulation (EC) No 1272/2008 [CLP].
2.2. Label elements. 2.2.1. Classification according to regulation (EC) No 1272/2008 [CLP].	This mixture does not meet the criteria for classification in accordance with regulation (EC) No 1272/2008 [CLP].
Supplemental information.	EUH210 Safety data sheet available upon request EUH208 Contains: 4,5-dichloro-2-n-octyl-4-isothiazolin-3-one. May produce an allergic reaction.
2.3. Other hazards.	This product contains decamethylcyclopentasiloxane (D5) that has been identified by the Member State Committee of ECHA as fulfilling the vPvB criteria laid down in Annex XIII to Regulation (EC) No 1907/2006. See Section 12 for additional information. This product contains octamethylcyclotetrasiloxane (D4) that has been identified by the Member State Committee of ECHA as fulfilling the PBT and vPvB criteria laid down in Annex XIII to Regulation (EC) No 1907/2006. See Section 12 for additional information. This product contains dodecamethylcyclohexasiloxane (D6) that has been identified by the Member State Committee of ECHA as fulfilling the vPvB criteria laid down in Annex XIII to Regulation (EC) No 1907/2006. See Section 12 for additional information.

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SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.2. Mixtures

Description of mixture: Silicone elastomer. This product is a mixture.
PBT and vPvB substance

Name	CAS No.	EINECS No.	REACH Registration No.	% (weight)	Classification according to Regulation (EC) No 1278/2008 (CLP).
Decamethylcyclopentasiloxane	541-02-6	208-764-9	-	≥0.39 - ≤0.42	Not classified
Octamethylcyclotetrasiloxane	556-67-2	209-136-7	-	≥0.34 - ≤0.37	Flam. Liq. – 3 – H226 Repr. – 2 – H361f Aquatic chronic – 4 – H413
Dodecamethylcyclohexasiloxane	540-97-6	208-762-8	-	≥0.12 - ≤0.14	Not classified

Additional information: For full text of H-statements: see SECTION 16.

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

General advice:

Following inhalation:

Following skin contact:

Following eye contact:

Following ingestion:

If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Move person to fresh air; if effects occur, consult a physician.

Wash off with plenty of water.

Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

No emergency medical treatment necessary.

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

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

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

No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

SECTION 5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media;

Unsuitable extinguishing media;

Water spray Alcohol-resistant foam Carbon dioxide (CO₂) Dry chemical.

None known.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products;

Carbon oxides, silicon oxides.

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5.3. Advice for firefighters	<p>Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Contain fire water run-off if possible. Fire water run-off, if not contained, may cause environmental damage.</p> <p>Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.</p>
5.3.1. Special protective equipment for firefighters	<p>In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.</p>
SECTION 6. ACCIDENTAL RELEASE MEASURES	
6.1. Personal precautions, protective equipment and emergency procedures.	<p>Ensure adequate ventilation.</p>
6.1.1. For non-emergency personnel.	<p>Wear personal protective equipment (see SECTION 8).</p>
Protective equipment:	<p>Keep unprotected persons away. Avoid contact with skin and eyes. Avoid inhaling mists and vapours.</p>
Emergency procedures:	
6.2. Environmental precautions:	<p>Do not release the product to the aquatic environment above defined regulatory levels. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.</p>
6.3. Methods and material for containment and cleaning up.	<p>Wipe up or scrape up and contain for salvage or disposal. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.</p>
6.4. Reference to other sections	<p>See SECTION 7, 8, 11, 12 and 13.</p>
SECTION 7. HANDLING AND STORAGE	
7.2. Conditions for safe storage, including any incompatibilities.	<p>Keep in properly labelled containers. Store locked up. Store in accordance with the particular national regulations.</p> <p>Do not store with the following product types: Strong oxidizing agents.</p> <p>Unsuitable materials for containers: None known.</p>
7.3. Specific end use(s).	<p>Cartridge applied sealant.</p>

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SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Maximum airborne concentrations at the workplace:

This product does not contain any substances with critical values that have to be monitored at the workplace.

8.2. Exposure control

8.2.1. Appropriate engineering controls:

Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. Do not eat, drink or smoke when handling. Wash hands at the end of work and before eating.

8.2.2. Personal protection equipment:

8.2.2.1. Eye face protection:

Safety glasses with side shields.

8.2.2.2. Skin protection:

Chemical resistant gloves. After handling; make sure the skin is cleaned and protected.

8.2.2.3. Respiratory protection:

For most conditions no protection required. In case of strong exposure (elevated temperature with no ventilation): Organic vapour cartridge, type A.

8.2.2.4. Thermal hazards:

Not applicable

8.2.3. Environmental exposure controls:

Prevent material from entering surface waters or soil.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties.

- a) **Appearance:** Paste
- b) **Odour:** Acetic acid / strong.
- c) **Odour Threshold:** No data available.
- d) **pH:** No data available.
- e) **Melting point / freezing point:** No data available.
- f) **Initial boiling point and boiling range:** Not applicable
- g) **Flash point:** >100°C
- h) **Evaporation rate:** No data available.
- i) **Flammability (solid, gas):** Not applicable.
- j) **Upper / lower flammability or explosive limits:** No data available.

- k) **Vapour pressure:** No data available.
- l) **Vapour density:** No data available.
- m) **Relative Density:** 1.02 g/ml
- n) **Solubility (ies):** No data available.
- o) **Partition coefficient: n-octanol / water:** No data available.
- p) **Auto-ignition temperature:** No data available.
- q) **Decomposition temperature:** No data available.
- r) **Viscosity:** No data available.
- s) **Explosive properties:** No data available.
- t) **Oxidising properties:** None

9.2 Other Information:

No further data available.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

10.2 Chemical stability

10.3 Possibility of Hazardous Reactions

Not classified as a reactivity hazard.
Stable under normal conditions.
Can react with strong oxidising reagents.

10.4 Conditions to Avoid

None known.

10.5 Incompatible Materials

Oxidising reagents.

10.6 Hazardous decomposition products

Formaldehyde.

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SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:

- Acute oral toxicity

- Acute dermal toxicity

- Acute inhalation toxicity

Skin corrosion / irritation:

Serious eye damage / eye irritation

Sensitisation:

Specific Target Organ Systemic Toxicity (Single Exposure):

Specific Target Organ Systemic Toxicity (Repeated Exposure):

Carcinogenicity:

Teragenicity:

Toxicity for reproduction:

Mutagenicity:

Aspiration hazard:

Further toxicological information:

Components influencing toxicology:

Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. As product: Single dose oral LD50 has not been determined. Based on information for component(s): LD50, Rat, > 5,000 mg/kg Estimated.

Prolonged skin contact is unlikely to result in absorption of harmful amounts. As product: The dermal LD50 has not been determined. Based on information for component(s): LD50, Rabbit, > 2,000 mg/kg Estimated. Brief exposure (minutes) is not likely to cause adverse effects. Vapor from heated material may cause respiratory irritation. As product: The LC50 has not been determined.

Prolonged exposure not likely to cause significant skin irritation.

May cause slight temporary eye irritation. May cause mild eye discomfort.

For skin sensitization: Did not cause allergic skin reactions when tested in guinea pigs. For respiratory sensitization: No relevant information found.

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

For similar material(s): Based on available data, repeated exposures are not anticipated to cause significant adverse effects. Contains an additional component(s) that is/are encapsulated in the product and are not expected to be released under normal processing conditions or foreseeable emergency. For this family of materials: Did not cause cancer in long-term animal studies which used routes of exposure considered relevant to industrial handling. Positive results have been reported in other studies using routes of exposure not relevant to industrial handling.

Contains an additional component(s) that is/are encapsulated in the product and are not expected to be released under normal processing conditions or foreseeable emergency.

For similar material(s): Did not cause birth defects or any other fetal effects in laboratory animals.

For the major component(s): In animal studies, did not interfere with reproduction.

Contains a component(s) which were negative in in vitro genetic toxicity studies. Contains component(s) which were negative in animal genetic toxicity studies.

Based on physical properties, not likely to be an aspiration hazard.

Decamethylcyclopentasiloxane

Acute inhalation toxicity

LC50, Rat, male and female, 4 Hour, dust/mist, 8.67 mg/l

Octamethylcyclotetrasiloxane

Acute inhalation toxicity

LC50, Rat, male and female, 4 Hour, dust/mist, 36 mg/l OECD Test Guideline 403

Dodecamethylcyclohexasiloxane

Acute inhalation toxicity

The LC50 has not been determined.

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SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity:

Decamethylcyclotetrasiloxane

- **Acute toxicity to fish**
Not expected to be acutely toxic to aquatic organisms.
No toxicity at the limit of solubility
LC50, Oncorhynchus mykiss (rainbow trout), 96 Hour, > 16 µg/l, OECD Test Guideline 204 or Equivalent
- **Acute toxicity to aquatic invertebrates**
No toxicity at the limit of solubility
EC50, Daphnia magna, 48 Hour, > 2.9 mg/l, OECD Test Guideline 202 or equivalent.
- **Acute toxicity to algae / aquatic plants**
No toxicity at the limit of solubility
ErC50, Pseudokirchneriella subcapitata (green algae), 96 Hour, Growth rate, > 0.012 mg/l
No toxicity at the limit of solubility
NOEC, Pseudokirchneriella subcapitata (green algae), 96 Hour, Growth rate, 0.012 mg/l.
- **Chronic toxicity to fish**
No toxicity at the limit of solubility
LC50, Oncorhynchus mykiss (rainbow trout), 14 d, > 16 mg/l
No toxicity at the limit of solubility
NOEC, Oncorhynchus mykiss (rainbow trout), 45 d, >= 0.017 mg/l
No toxicity at the limit of solubility
NOEC, Oncorhynchus mykiss (rainbow trout), 90 d, >= 0.014 mg/l
NOEC, Daphnia magna, 21 d, 0.015 mg/l
- **Chronic toxicity to aquatic invertebrates**
This product does not have any known adverse effect on the soil organisms tested. NOEC, Eisenia fetida (earthworms), >= 76 mg/kg
- **Toxicity to soil-dwelling organisms**

Octamethylcyclotetrasiloxane

- **Acute toxicity to fish**
Not expected to be acutely toxic to aquatic organisms.
No toxicity at the limit of solubility
LC50, Oncorhynchus mykiss (rainbow trout), flow-through, 96 Hour, > 0.022 mg/l
No toxicity at the limit of solubility
LC50, Cyprinodon variegatus (sheepshead minnow), flow-through, 14 d, > 0.0063 mg/l
- **Acute toxicity to aquatic invertebrates**
No toxicity at the limit of solubility
EC50, Mysidopsis bahia (opossum shrimp), flow-through test, 96 Hour, > 0.0091 mg/l
No toxicity at the limit of solubility
EC50, Daphnia magna (Water flea), flow-through test, 48 Hour, > 0.015 mg/l
- **Acute toxicity to algae / aquatic plants**
No toxicity at the limit of solubility
ErC50, Pseudokirchneriella subcapitata (green algae), 72 Hour, Growth rate, > 0.022 mg/l
- **Chronic toxicity to fish**
No toxicity at the limit of solubility
NOEC, Oncorhynchus mykiss (rainbow trout), 93 d, >= 0.0044 mg/l
- **Chronic toxicity to aquatic invertebrates**
No toxicity at the limit of solubility
NOEC, Daphnia magna (Water flea), 21 d, >= 0.0079 mg/l

Dodecamethylcyclohexasiloxane

- **Acute toxicity to algae / aquatic plants**
Not expected to be acutely toxic to aquatic organisms.
No toxicity at the limit of solubility
ErC50, Pseudokirchneriella subcapitata (green algae), 72 Hour, > 0.002 mg/l
- **Chronic toxicity to aquatic invertebrates**
No toxicity at the limit of solubility
NOEC, Daphnia magna (Water flea), 21 d, 0.0046 mg/l

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<p>12.2 Persistence and degradability</p> <p><u>Decamethylcyclopentasiloxane</u></p> <p><u>Octamethylcyclotetrasiloxane</u></p> <p><u>Dodecamethylcycloheasiloxane</u></p>	<p>Biodegradability: Material is expected to biodegrade very slowly (in the environment). Fails to pass OECD/EEC tests for ready biodegradability. 10-day Window: Not applicable Biodegradation: 0.14 % Exposure time: 28 d Method: OECD Test Guideline 310</p> <p>Biodegradability: Material is expected to biodegrade very slowly (in the environment). Fails to pass OECD/EEC tests for ready biodegradability. 10-day Window: Not applicable Biodegradation: 3.7 % Exposure time: 28 d Method: OECD Test Guideline 310</p> <p>Stability in Water (1/2-life) Hydrolysis, DT50, 69.3 - 144 Hour, pH 7, Half-life Temperature 24.6 °C, OECD Test Guideline 111</p> <p>Biodegradability: Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions. 10-day Window: Fail Biodegradation: 57 % Exposure time: 28 d Method: OECD Test Guideline 301B</p>
<p>12.3. Bioaccumulative potential:</p> <p><u>Decamethylcyclopentasiloxane</u></p> <p><u>Octamethylcyclotetrasiloxane</u></p> <p><u>Dodecamethylcyclohexasiloxane</u></p>	<p>Bioaccumulation: Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5). Partition coefficient: n-octanol/water(log Pow): 5.2 Measured Bioconcentration factor (BCF): 2,010 Fish Estimated.</p> <p>Bioaccumulation: Bioconcentration potential is high (BCF > 3000 or Log Pow between 5 and 7). Partition coefficient: n-octanol/water(log Pow): 6.49 Measured Bioconcentration factor (BCF): 12,400 Pimephales promelas (fathead minnow) Measured</p> <p>Bioaccumulation: Bioconcentration potential is low (BCF less than 100 or log Pow greater than 7). Partition coefficient: n-octanol/water(log Pow): 8.87</p>
<p>12.4. Mobility in soil:</p> <p><u>Decamethylcyclopentasiloxane</u></p> <p><u>Octamethylcyclotetrasiloxane</u></p> <p><u>Dodecamethylcyclohexasiloxane</u></p>	<p>Expected to be relatively immobile in soil (Koc > 5000). Partition coefficient (Koc): > 5000 Estimated.</p> <p>Expected to be relatively immobile in soil (Koc > 5000).</p> <p>Potential for mobility in soil is very high (Koc between 0 and 50).</p>

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12.5. Results of PBT and vPvB testing:

Decamethylcyclopentasiloxane

Decamethylcyclopentasiloxane (D5) meets the current REACH Annex XIII criteria for vPvB. However, D5 does not behave similarly to known PBT/vPvB substances. The weight of scientific evidence from field studies shows that D5 is not biomagnifying in aquatic and terrestrial food webs. D5 in air will degrade by reaction with naturally occurring hydroxyl radicals in the atmosphere. Any D5 in air that does not degrade by reaction with hydroxyl radicals is not expected to deposit from the air to water, to land, or to living organisms. Based on an independent scientific panel of experts, the Canadian Minister of the Environment has concluded that "D5 is not entering the environment in a quantity or concentration or under conditions that have or may have an immediate or long-term harmful effect on the environment or its biological diversity, or that constitute or may constitute a danger to the environment on which life depends".

Octamethylcyclotetrasiloxane

Octamethylcyclotetrasiloxane (D4) meets the current REACH Annex XIII criteria for PBT and vPvB. In Canada, D4 has been assessed and deemed to meet the PiT criteria. However, D4 does not behave similarly to known PBT/vPvB substances. The weight of scientific evidence from field studies shows that D4 is not biomagnifying in aquatic and terrestrial food webs. D4 in air will degrade by reaction with naturally occurring hydroxyl radicals in the atmosphere. Any D4 in air that does not degrade by reaction with hydroxyl radicals is not expected to deposit from the air to water, to land, or to living organisms.

Dodecamethylcyclohexasiloxane

Dodecamethylcyclohexasiloxane (D6) meets the current REACH Annex XIII criteria for vPvB. However, D6 does not behave similarly to known PBT/vPvB substances. The weight of scientific evidence from field studies shows that D6 is not biomagnifying in aquatic and terrestrial food webs. D6 in air will degrade by reaction with naturally occurring hydroxyl radicals in the atmosphere. Any D6 in air that does not degrade by reaction with hydroxyl radicals is not expected to deposit from the air to water, to land, or to living organisms.

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SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods:	Do not dump into any sewers, on the ground, or into any body of water. This product, when being disposed of in its unused and uncontaminated state should be treated as a hazardous waste according to EC Directive 2008/98/EC. Any disposal practices must be in compliance with all national and provincial laws and any municipal or local by-laws governing hazardous waste. For used, contaminated and residual materials additional evaluations may be required.
13.1.1. Product / packaging disposal: Waste codes / waste designations according to LoW:	Dispose of in accordance with local regulations. Do not empty product into drains. According to the European catalogue, waste codes are not product specific, but application specific. The user should assign waste codes, preferably in discussion with the waste disposal authorities.
13.1.2. Waste treatment-relevant information:	No data available.
13.1.3. Sewage disposal-relevant information:	No data available.
13.1.4. Other disposal recommendations:	No data available.

SECTION 14. TRANSPORT INFORMATION

	Road ADR	Railway RID	Sea - IMDG Code	Air – ICAO-TI/IATA-DGR
14.1. UN Number	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing Group	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards	Not regulated	Not regulated	Not regulated	Not regulated
14.6. Special precautions for user	Not regulated	Not regulated	Not regulated	Not regulated
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code"	Not intended	Not intended	Not intended	Not intended

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SECTION 15. REGULATORY INFORMATION

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

REACH Regulation (EC) No 1907/2006

This product contains only components that have been either registered, are exempt from registration, are regarded as registered or are not subject to registration according to Regulation (EC) No. 1907/2006 (REACH). The aforementioned indications of the REACH registration status are provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. It is the buyer's/user's responsibility to ensure that his/her understanding of the regulatory status of this product is correct.

Restrictions on the manufacture, placing on the market and use:

The following substance/s contained in this product is/are subject through Annex XVII of REACH regulation to restrictions on the manufacture, placing on the market and use when present in certain dangerous substances, mixtures and articles. Users of this product have to comply with the restrictions placed upon it by the aforementioned provision.

CAS-No.: 541-02-6

Name: **Decamethylcyclopentasiloxane**

Restriction status: listed in REACH Annex XVII

Restricted uses: See Commission Regulation (EU) No 2018/35 for Conditions of restriction

Number on the list: 70

CAS-No.: 556-67-2

Name: **Octamethylcyclotetrasiloxane**

Restriction status: listed in REACH Annex XVII

Restricted uses: See Commission Regulation (EU) No 2018/35 for Conditions of restriction

Number on the list: 70

Authorisation status under REACH:

The following substance/s contained in this product might be or is/are subject to authorization in accordance with REACH:

CAS-No.: 541-02-6

Name: **Decamethylcyclopentasiloxane**

Authorisation status: listed in the Candidate List of Substances of Very High Concern for Authorisation

Authorisation number: Not available

Sunset date: Not available

Exempted (Categories of) Uses: Not available

CAS-No.: 556-67-2

Name: **Octamethylcyclotetrasiloxane**

Authorisation status: listed in the Candidate List of Substances of Very High Concern for Authorisation

Authorisation number: Not available

Sunset date: Not available

Exempted (Categories of) Uses: Not available

CAS-No.: 540-97-6

Name: **Dodecamethylcyclohexasiloxane**

Authorisation status: listed in the Candidate List of Substances of Very High Concern for Authorisation

Authorisation number: Not available

Sunset date: Not available

Exempted (Categories of) Uses: Not available

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Listed in Regulation: Not applicable

15.2 Chemical Safety Assessment.

No data available.

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SECTION 16. OTHER INFORMATION

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

H226 Flammable liquid and vapour.

H361f Suspected of damaging fertility.

H413 May cause long lasting harmful effects to aquatic life.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) No 1272/2008

This product is not classified as dangerous according to EC criteria.

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

This Product Safety Data Sheet was prepared in compliance with article 31 and Annex II of the EU REACH regulation as well as their relevant amendments, on the approximation of laws, regulations and administrative provisions relative to the classification, packaging and labelling of dangerous substances and preparations.

This product should only be used as stated in Hodgson literature. It is the responsibility of the persons in receipt of this Product Safety Data Sheet to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose of or in any way come in to contact with the product. If the recipient subsequently produces a formulation containing the Hodgson product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from the Hodgson Product Safety Data Sheet to their own Product Safety Data Sheet in compliance with article 31 and Annex II of the EU REACH regulation.

All information and instructions provided in the Product Safety Data Sheet are based on the current state of scientific and technical knowledge at the date indicated on the present Product Safety Data Sheet. Hodgson shall not be held responsible for any defect in the product covered by this Product Safety Data Sheet, should the existence of such defect not be detectable considering the current state of scientific and technical knowledge.