

|  |   | SAFETY DATA                |                         |                             |
|--|---|----------------------------|-------------------------|-----------------------------|
|  | dance with REACH (1907/20   | · · · ·                    | •                       |                             |
| Revision date:   | 29 December 2020  | Initial date of issue:     | 11 October 2011         | <b>SDS No.</b> 449B-8a      |
| SECTION 1: IDE   | ENTIFICATION OF THE SUB   | STANCE/MIXTURE ANI         | OF THE COMPANY          | JNDERTAKING                 |
| 1.1. Product ide   | ntifier   |                            |                         |                             |
| ARC HT-S (Part I   | B) (BLU, GY)  |                            |                         |                             |
| 1.2. Relevant ide  | entified uses of the substan  | ice or mixture and uses    | advised against         |                             |
| ARC Polymer Co<br>environment.                                 | mposite to be mixed with AR   | C HT-S (Part A) to provid  | e a corrosion resistant | coating for hot water/steam |
| 1.3. Details of th   | e supplier of the safety dat  | a sheet                    |                         |                             |
| (Mon Fri. 8:30 -<br>SDS requests: w<br>E-mail (SDS ques        | t<br>1834-1507, USA<br>6446 Fax: +1 978-469-678   |                            | ier:                    |                             |
| Unit 105, Burlingt<br>EU: Chesterton Ir<br>D85737 Ismaning     | nesterton Company Ltd., 889<br>con, Ontario L7L 4X8 – Tel. 90<br>nternational GmbH, Am Lenzo<br>g, Germany – Tel. +49-89-996                            | 05-335-5055<br>enfleck 23, |                         |                             |
| 1.4. Emergency   | telephone number  |                            |                         |                             |
|  |   |                            |                         |                             |
| SECTION 2: HA  | ZARDS IDENTIFICATION  |                            |                         |                             |
| 2.1. Classificatio   | on of the substance or mixt   | ure                        |                         |                             |
| 2.1.1. Classificat   | tion according to Regulatio   | on (EC) No 1272/2008 [C    | LP]                     |                             |
| Acute toxicity, Ca<br>Skin sensitization<br>Specific target or | ategory 1B, H314<br>age, Category 1, H318<br>itegory 4, H302/332<br>i, Category 1, H317<br>gan toxicity – repeated expos<br>aquatic environment, Chroni |                            | idneys, liver, muscles) |                             |
| 2.1.2. Classificat   | tion according to 29 CFR 19   | 910.1200 / WHMIS 2015      |                         |                             |
| Same as section  | 2.1.1.  |                            |                         |                             |
| 2.1.3. Australian  | statement of hazardous na   | ature                      |                         |                             |
| Hazardous accor  | ding to criteria of Safe Work A   | Australia.                 |                         |                             |
| 2.1.4. Additional  | information   |                            |                         |                             |
| Ear full taxt of LL  | statements: see SECTIONS  |                            |                         |                             |

For full text of H-statements: see SECTIONS 2.2 and 16.

| 2.2.1. Labelling according to                          | Regulation (E   | C) No 127                                     | 2/2008 [CLP]  |   |   |
|--|---|---|---|---|---|
| Hazard pictograms:                                     |   |   | >   |   |   |
| <b>o</b>   |   |   |   |   |   |
| Signal word:   | Danger  |   |   |   |   |
| Hazard statements:                                     | H314<br>H302/332<br>H317<br>H373<br>H412  | Harmful i<br>May caus<br>May caus<br>repeated | f swallowed or if<br>se an allergic skin<br>se damage to the<br>exposure. | n reaction.   | d muscles through prolonged or  |
| Precautionary statements:                              | P260  |   | eathe spray.  |   |   |
| ,, ,   | P273<br>P280  | Avoid rele<br>Wear pro<br>IF ON Sk            | ease to the envir<br>tective gloves/clo<br>(IN (or hair): Tak             | othing and eye/fa                                     | ce protection.<br>all contaminated clothing. Rinse skin   |
|  | P305/351/338  | IF IN EYE                                     |   | usly with water fo<br>y to do. Continue               | r several minutes. Remove contact   |
|  | P301/330/331<br>P310<br>P363  | IF SWAL<br>Immediat                           | LOWED: rinse m  | outh. Do NOT in<br>N CENTER or do<br>ng before reuse. | duce vomiting.  |
| Supplemental information:                              | None  |   |   |   |   |
| 2.2.2. Labelling according to                          | 29 CFR 1910.1   | 200 / WHI                                     | MIS 2015  |   |   |
| Hazard pictograms:                                     | Same as section   | on 2.2.1.                                     |   |   |   |
| Signal word:   | Same as section 2.2.1.  |   |   |   |   |
| Hazard statements:                                     | Same as section   | on 2.2.1.                                     |   |   |   |
| Precautionary statements:                              | <ul> <li>P260 Do not breathe spray.</li> <li>P264 Wash hands thoroughly after handling.</li> <li>P270 Use only outdoors or in a well-ventilated area.</li> <li>P271 Use only outdoors or in a well-ventilated area.</li> <li>P272 Contaminated work clothing must not be allowed out of the workplace.</li> <li>P273 Avoid release to the environment.</li> <li>P280 Wear protective gloves/clothing and eye/face protection.</li> <li>P303/361/353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.</li> <li>P304/340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>P305/351/338 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.</li> <li>P301/330/331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.</li> <li>P310 Immediately call a POISON CENTER or doctor/physician.</li> <li>P363 Wash contaminated clothing before reuse.</li> </ul> |   |   |   |   |
| Supplemental information                               | P501  | Uspose (                                      | or contents/conta   | mer to an approv                                      | ved waste disposal plant.   |
| Supplemental information:                              |   |   |   |   |   |
| 2.3. Other hazards                                     |   |   |   |   |   |
| Upon machining, refer to the p                         | recautions in the   | e safety da                                   | ta sheets for Par   |   | ed material is considered nonhazardous.   |
| SECTION 3: COMPOSITION                                 | /INFORMATION  | ON INGR                                       | REDIENTS  |   |   |
| 3.2. Mixtures  | • /   | 18/4  | CAC No /  | DEACU   |   |
| Hazardous Ingredients <sup>1</sup>                     | %   | Wt.   | CAS No./<br>EC No.  | REACH<br>Reg. No.                                     | CLP/GHS Classification  |
| Methyleneoxide, polymer with benzenamine, hydrogenated | 45  | -55   | 135108-88-2<br>603-894-6  | 01-211998<br>3522-33                                  | Acute Tox. 4, H302<br>Skin Corr. 1C, H314<br>Skin Sens. 1, H317<br>STOT RE, H373 (oral, kidneys)<br>Aquatic Chronic 3, H412 |

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| 4,4'-Methylenebis(cyclohexylamine) 40-50 1761-71-3 01-211954 Acute Tox. 4, H302<br>217-168-8 1673-38 Skin Corr. 1B, H314  |        |  |  |  |  |
|---|--------|--|--|--|--|
| Eye Dam. 1, H318<br>Skin Sens. 1B, H317   |        |  |  |  |  |
| Diethylenetriamine*         1-5         111-40-0         01-211947         Acute Tox. 2, H330           203-865-4         3793-27         Acute Tox. 4, H302/312         Skin Corr. 1B, H314           Eye Dam. 1, H318         STOT SE 3, H335         Skin Sens. 1, H317  | ues)   |  |  |  |  |
| Other ingredients:<br>di-"Isononyl" phthalate 0-0.7 28553-12-0 NA Not classified<br>249-079-5 Not classified  |        |  |  |  |  |
| *This component is toxic by inhalation if sprayed or if aerosol/mist is created. Refer to section 11 for additional toxicity information for full text of H-statements: see SECTION 16.   | ation. |  |  |  |  |
| <ul> <li><sup>1</sup> Classified according to: • 29 CFR 1910.1200, 1915, 1916, 1917, Mass. Right-to-Know Law (ch. 40, M.G.LO. 111F)</li> <li>• 1272/2008/EC, GHS, REACH</li> <li>• WHMIS 2015</li> <li>• Safe Work Australia</li> </ul>                                     |        |  |  |  |  |
| SECTION 4: FIRST AID MEASURES   |        |  |  |  |  |
| 4.1. Description of first aid measures  |        |  |  |  |  |
| Inhalation: Remove to fresh air. If not breathing, administer artificial respiration. Contact physician.  |        |  |  |  |  |
| Skin contact: Flood area with water while removing contaminated clothing. Wash clothing before reuse. Consult physicial   | 1.     |  |  |  |  |
| Eye contact: Flush eyes for at least 30 minutes with large amounts of water. Consult physician.   |        |  |  |  |  |
| Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. C physician immediately.   | ontact |  |  |  |  |
| <b>Protection of first-aiders:</b> No action shall be taken involving any personal risk or without suitable training. Avoid contact the product while providing aid to the victim. Do not breathe mist. See section 8 for recommendations on personal protective equipment. | vith   |  |  |  |  |
| 4.2. Most important symptoms and effects, both acute and delayed  |        |  |  |  |  |
| Direct contact will cause burns to skin, eyes and mucous membranes. High vapor concentrations and mist can cause severe and respiratory tract irritation. May cause skin sensitization as evidenced by rashes or hives.   | eye    |  |  |  |  |
| 4.3. Indication of any immediate medical attention and special treatment needed   |        |  |  |  |  |
| Treat symptoms.   |        |  |  |  |  |
| SECTION 5: FIREFIGHTING MEASURES  |        |  |  |  |  |
| 5.1. Extinguishing media  |        |  |  |  |  |
| Suitable extinguishing media: Carbon dioxide, dry chemical, alcohol-resistant foam  |        |  |  |  |  |
| Unsuitable extinguishing media: No data available   |        |  |  |  |  |
| 5.2. Special hazards arising from the substance or mixture  |        |  |  |  |  |
| Incomplete combustion may form carbon monoxide. May generate: ammonia gas, toxic nitrogen oxide gases.  |        |  |  |  |  |
| 5.3. Advice for firefighters  |        |  |  |  |  |
| Cool exposed containers with water. Recommend Firefighters wear self-contained breathing apparatus.   |        |  |  |  |  |
| Flammability Classification: –  |        |  |  |  |  |
| HAZCHEM Emergency Action Code: 3 Z  |        |  |  |  |  |
| SECTION 6: ACCIDENTAL RELEASE MEASURES  |        |  |  |  |  |
| <b>6.1. Personal precautions, protective equipment and emergency procedures</b><br>Evacuate area. Provide adequate ventilation. Avoid skin contact. Utilize exposure controls and personal protection as specific Section 8.  | ed in  |  |  |  |  |
| 6.2. Environmental Precautions  |        |  |  |  |  |
| Keep out of sewers, streams and waterways.  |        |  |  |  |  |

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

Contain spill to a small area. Scoop up and transfer to a suitable container for disposal.

#### 6.4. Reference to other sections

Refer to section 13 for disposal advice.

# SECTION 7: HANDLING AND STORAGE

# 7.1. Precautions for safe handling

Do not breathe spray. Utilize exposure controls and personal protection as specified in Section 8. Do not contaminate with sodium nitrite or other nitrosating agents, which could cause the formation of cancer-causing nitrosamine. Remove contaminated clothing immediately. Wash clothing before reuse. Contaminated leather including shoes cannot be decontaminated and should be discarded. Avoid creating and breathing dust during removal, drilling, grinding, sawing or sanding.

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

Store in a cool, dry area.

#### 7.3. Specific end use(s)

No special precautions.

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

#### Occupational exposure limit values

| Ingredients   | OSH |       | ACGI     |       | UK  | WEL <sup>3</sup> | AUSTRA   | -     |
|---|-----|-------|----------|-------|-----|------------------|----------|-------|
|   | ppm | mg/m³ | ppm      | mg/m³ | ppm | mg/m³            | ppm      | mg/m³ |
| Methyleneoxide, polymer with<br>benzenamine, hydrogenated | -   | -     | -        | -     | -   | -                | -        | -     |
| 4,4'-<br>Methylenebis(cyclohexylamine<br>)                | -   | -     | -        | -     | _   | -                | -        | -     |
| Diethylenetriamine  | _   | _     | 1 (skin) | 4.2   | 1   | 4.3              | 1 (skin) | 4.2   |
| di-"Isononyl" phthalate                                   | -   | -     | _        | -     | -   | 5                | _        | -     |

<sup>1</sup> United States Occupational Health & Safety Administration permissible exposure limits

<sup>2</sup> American Conference of Governmental Industrial Hygienists threshold limit values

<sup>3</sup> EH40 Workplace exposure limits, Health & Safety Executive

<sup>4</sup> Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003]

### Derived No Effect Level (DNEL) according to Regulation (EC) No 1907/2006:

#### Workers

Not available Not available

### 3951 Predicted No Effect Concentration (PNEC) according to Regulation (EC) No 1907/2006:

Not available Not available

#### 8.2. Exposure controls

#### 8.2.1. Engineering measures

Provide sufficient ventilation to keep the vapor concentrations below the exposure limits. If necessary, provide local exhaust. If it is necessary to alter the final cured product such that dust may be generated, use adequate dust extraction or damp down.

#### 8.2.2. Individual protection measures

| Respiratory protection:  | Not normally needed. In case of insufficient ventilation, utilize an approved organic vapor respirator (e.g., EN filter type A/P2). During spraying, wear suitable respiratory equipment. |
|--------------------------|---|
| Protective gloves:       | Chemical resistant gloves (e.g. neoprene, nitrile).   |
| Eye and face protection: | Safety goggles.   |
| Other:                   | Impervious clothing as necessary to prevent skin contact.   |

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## 8.2.3. Environmental exposure controls

Refer to sections 6 and 12.

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| 9.1. Information on basic phy   | sical and chemical properties   | 3   |  |
|---|---|---|--|
| Physical state<br>Colour<br>Initial boiling point<br>Melting point<br>% Volatile (by volume)<br>Flash point<br>Method<br>Viscosity<br>Autoignition temperature<br>Decomposition temperature<br>Upper/lower flammability<br>or explosive limits<br>Flammability (solid, gas)<br>Explosive properties<br>9.2. Other information | viscous liquid<br>blue and black<br>> 215°C (> 420°F)<br>not determined<br>None<br>> 100°C (> 212°F)<br>PM Closed Cup<br>1500 - 2400 cps @ 25°C<br>not determined<br>not determined<br>not determined<br>not determined | Odour<br>Odour threshold<br>Vapour pressure @ 20°C<br>% Aromatics by weight<br>pH<br>Relative density<br>Weight per volume<br>Coefficient (water/oil)<br>Vapour density (air=1)<br>Rate of evaporation (ether=1)<br>Solubility in water<br>Oxidising properties | amine<br>not determined<br>not determined<br>None<br>not applicable<br>1.000 – 1.019 kg/l<br>8.32 - 8.48 lbs/gal.<br>< 1<br>> 1<br>< 1<br>slightly soluble<br>not determined |
| VOC, EPA 24: 0.6 lbs/gal.   |   |   |  |
| SECTION 10: STABILITY AN  | D REACTIVITY  |   |  |
| 10.1. Reactivity  |   |   |  |
| Refer to sections 10.3 and 10.5   | j.  |   |  |
| 10.2. Chemical stability  |   |   |  |
| Stable  |   |   |  |
| 10.3. Possibility of hazardous  | s reactions   |   |  |
| No dangerous reactions known  | under conditions of normal use  |   |  |
| 10.4. Conditions to avoid   |   |   |  |
| Open flames and high tempera  | tures.  |   |  |
| 10.5. Incompatible materials  |   |   |  |
| •   | strong oxidizers like liquid Chlor  | ine and concentrated Oxygen.  |  |
| 10.6. Hazardous decompositi   | <b>.</b>  |   |  |
| •   | •   | , nitrosamines and other toxic fume   | 5.   |
| SECTION 11: TOXICOLOGIC   | AL INFORMATION  |   |  |
| 11.1. Information on toxicolo   | gical effects   |   |  |
| Primary route of exposure<br>under normal use:  | Inhalation, skin and eye contac   | xt.   |  |
| Acute toxicity -  |   |   |  |
| Oral:   | Harmful if swallowed. ATE-mix   | = 410 mg/kg   |  |
|   | Substance   | Test  | Result   |
|   | Methyleneoxide, polymer with  | LD50, rat   | 449 mg/kg  |
|   | benzenamine, hydrogenated   |   | (estimated)  |

LD50, rat

LD50, rat

4,4'-Methylenebis(cyclohexylamine)

Diethylenetriamine

380 mg/kg

1080 mg/kg

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## Product: ARC HT-S (Part B) (BLU, GY)

|                                    | mg/kg   |                                    | ot met. ATE-mix = 2264                 |  |  |  |
|------------------------------------|---|------------------------------------|--|--|--|--|
|                                    | Substance   | Test                               | Result                                 |  |  |  |
|                                    | Methyleneoxide, polymer with benzenamine, hydrogenated  | LD50, rabbit                       | 2673 mg/kg                             |  |  |  |
|                                    | 4,4'-Methylenebis(cyclohexylamine)  | LD50, rabbit                       | 2110 mg/kg                             |  |  |  |
|                                    | Diethylenetriamine  | LD50, rabbit                       | 1045 mg/kg                             |  |  |  |
| Inhalation:                        | Harmful if inhaled (aerosol/mist). ATE-mix = 3.43 mg/l (aerosol/mist).  |                                    |  |  |  |  |
|                                    | Substance   | Test                               | Result                                 |  |  |  |
|                                    | Diethylenetriamine  | LC50, rat, 4 h                     | > 0.07 - < .3 mg/l<br>(aerosol/mist)   |  |  |  |
|                                    | Diethylenetriamine  | LC50, rat, 4 h                     | No mortality at vapor saturation level |  |  |  |
| Skin corrosion/irritation:         | Causes burns.   |                                    |  |  |  |  |
|                                    | Substance   | Test                               | Result                                 |  |  |  |
|                                    | Formaldehyde, polymer with  | In vitro test                      | Corrosive                              |  |  |  |
|                                    | benzenamine, hydrogenated + 4,4'-   |                                    |  |  |  |  |
|                                    | Methylenebis(cyclohexylamine)   |                                    |  |  |  |  |
|                                    | Diethylenetriamine  | Skin irritation, rabbit            | Corrosive                              |  |  |  |
| Serious eye damage/<br>irritation: | Causes serious eye damage.  |                                    |  |  |  |  |
|                                    | Substance   | Test                               | Result                                 |  |  |  |
|                                    | Diethylenetriamine  | Eye irritation                     | Corrosive                              |  |  |  |
| Respiratory or skin sensitisation: | May cause skin sensitization as evidence  | ed by rashes or hives.             |  |  |  |  |
|                                    | Substance   | Test                               | Result                                 |  |  |  |
|                                    | Diethylenetriamine  | Skin sensitization, guinea pig     | Sensitizing                            |  |  |  |
| Germ cell mutagenicity:            | Diethylenetriamine: based on available d  | ata, the classification criteria a | re not met.                            |  |  |  |
| Carcinogenicity:                   | This product contains no carcinogens as<br>International Agency for Research on Ca<br>Administration (OSHA) or Regulation (E0 | ncer (IARC), the Occupational      |  |  |  |  |
| Reproductive toxicity:             | Diethylenetriamine: Not expected to cause   | se toxicity.                       |  |  |  |  |
| STOT – single exposure:            | Diethylenetriamine: may cause respirato   | ry irritation.                     |  |  |  |  |
| STOT – repeated exposure:          |   | and muscles through prolonge       |  |  |  |  |
| Aspiration hazard:                 | Based on available data, the classificatio  | n criteria are not met.            |  |  |  |  |
| Other information:                 | None known  |                                    |  |  |  |  |
|                                    |   |                                    |  |  |  |  |

Ecotoxicological data have not been determined specifically for this product. The information given below is based on a knowledge of the components and the ecotoxicology of similar substances.

### 12.1. Toxicity

Harmful to aquatic life with long lasting effects. Methyleneoxide, polymer with benzenamine, hydrogenated: 48 h EC50 (for daphnia) = 15.4 mg/l.

#### 12.2. Persistence and degradability

Unreacted components (Parts A and B), improperly released to the environment, can cause ground and water pollution. Diethylenetriamine, 4,4'-Methylenebis(cyclohexylamine): expected to be resistant to biodegradation.

### 12.3. Bioaccumulative potential

Methyleneoxide, polymer with benzenamine, hydrogenated: does not bioaccumulate. 4,4'-Methylenebis(cyclohexylamine): low potential for bioaccumulation (bioconcentration factor < 100, estimated). Diethylenetriamine: bioconcentration in aquatic organisms is not expected to be significant (log Kow: -2.13).

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# 12.4. Mobility in soil

Liquid. Slightly soluble in water. In determining environmental mobility, consider the product's physical and chemical properties (see Section 9). Diethylenetriamine: expected to be highly mobile in soil.

### 12.5. Results of PBT and vPvB assessment

Not available

# 12.6. Other adverse effects

None known

## SECTION 13: DISPOSAL CONSIDERATIONS

# 13.1. Waste treatment methods

Combine resin and curative. The final cured material is considered nonhazardous. Unreacted components are a special waste (classified as hazardous according to 2008/98/EC). Incinerate waste product when in liquid form with a properly licensed facility. Check local, state and national/federal regulations and comply with the most stringent requirement.

| SECTION 14: TRANSPORT INFORM         | ATION  |
|--------------------------------------|--|
| 14.1. UN number                      |  |
| ADR/RID/ADN/IMDG/ICAO:               | UN2735   |
| TDG:                                 | UN2735   |
| US DOT:                              | UN2735   |
| 14.2. UN proper shipping name        |  |
| ADR/RID/ADN/IMDG/ICAO:               | AMINES, LIQUID, CORROSIVE, N.O.S. (CYCLOALIPHATIC AMINE)   |
| TDG:                                 | AMINES, LIQUID, CORROSIVE, N.O.S. (CYCLOALIPHATIC AMINE)   |
| US DOT:                              | AMINES, LIQUID, CORROSIVE, N.O.S. (CYCLOALIPHATIC AMINE)   |
| 14.3. Transport hazard class(es)     |  |
| ADR/RID/ADN/IMDG/ICAO:               | 8  |
| TDG:                                 | 8  |
| US DOT:                              | 8  |
| 14.4. Packing group                  |  |
| ADR/RID/ADN/IMDG/ICAO:               | III  |
| TDG:                                 |  |
| US DOT:                              |  |
| 14.5. Environmental hazards          |  |
| NO ENVIRONMENTAL HAZARDS             |  |
| 14.6. Special precautions for user   |  |
| NO SPECIAL PRECAUTIONS FOR           | USER   |
|                                      | Annex II of MARPOL73/78 and the IBC Code   |
| NOT APPLICABLE                       |  |
| 14.8. Other information              |  |
|                                      | d Quantities in packaging having a rated capacity gross weight of 66 lb. or less and in inner packages 173.154 (b),(2)). ERG NO. 153 |
| IMDG: EmS F-A, S-B, IMDG segre       |  |
| ADR: Classification code C7, Tunne   | l restriction code (E)   |
| SECTION 15: REGULATORY INFOR         | MATION   |
| 15.1. Safety, health and environment | tal regulations/legislation specific for the substance or mixture  |
| 15.1.1. EU regulations               |  |
|                                      | · · · ·  |

Authorisations under Title VII: Not applicable

Restrictions under Title VIII: None

| Other EU regulations:  | Directive 94/33/EC on the protection of young people at work.  |
|--|--|
| 15.1.2. National regulati  | ions   |
| US EPA SARA TITLE III  |  |
| 312 Hazards:   | 313 Chemicals:   |
| See section 2.1.1.   | None   |
| Other national regulation  | <b>ons:</b> National implementation of the EC Directive referred to in section 15.1.1.   |
| 15.2. Chemical safety as   | ssessment  |
| No Chemical Safety Asse  | essment has been carried out for this substance/mixture by the supplier.   |
| SECTION 16: OTHER IN   |  |
| and acronyms: ADR:<br>ATE: ,<br>BCF:<br>CATPE<br>CLP: (<br>ES: E<br>GHS:<br>ICAO:<br>IMDG<br>LC50:<br>LO50:<br>LO50:<br>LO50:<br>LO50:<br>LO50:<br>LOEL<br>N/A: N<br>NA: N<br>NA: N<br>NA: N<br>NOEC<br>PBT:<br>(Q)SA<br>REAC<br>REL:<br>RID: F<br>SDS:<br>STEL:<br>STOT<br>TDG:<br>TWA:<br>US DO<br>vPvB:<br>WEL: | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways<br>European Agreement concerning the International Carriage of Dangerous Goods by Road<br>Acute Toxicity Estimate<br>Bioconcentration Factor<br>E: Converted Acute Toxicity point Estimate<br>Classification Labelling Packaging Regulation (1272/2008/EC)<br>xposure Standard<br>Globally Harmonized System<br>I: International Civil Aviation Organization<br>I: International Maritime Dangerous Goods<br>I: Lethal Concentration to 50 % of a test population<br>I: Lethal Dose to 50% of a test population<br>I: Lowest Observed Effect Level<br>Vot Applicable<br>Iot Available<br>D: Organization for Economic Co-operation and Development<br>Persistent, Bioaccumulative and Toxic substance<br>RI: Quantitative Structure-Activity Relationship<br>CH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (1907/2006/EC)<br>Recommended Exposure Limit<br>Regulations concerning the International Carriage of Dangerous Goods by Rail<br>Safety Data Sheet<br>Schort Term Exposure Limit<br>RE: Specific Target Organ Toxicity, Repeated Exposure<br>Transportation of Dangerous Goods (Canada)<br>Time Weighted Average<br>OT: United States Department of Transportation<br>very Persistent and very Bioaccumulative substance<br>Workplace Exposure Limit<br>Si: Workplace Exposure Limit<br>RE: Specific Target Organ Toxicity, Single Exposure<br>Transportation of Dangerous Goods (Canada)<br>Time Weighted Average<br>OT: United States Department of Transportation<br>very Persistent and very Bioaccumulative substance<br>Workplace Exposure Limit<br>S: Workplace Hazardous Materials Information System<br>abbreviations and acronyms can be looked up at www.wikipedia.org. |
| Key literature reference<br>and sources for data:  |  |

| Classification   | Classification procedure  |
|--|---|
| Skin Corr. 1B, H314  | Calculation method  |
| Eye Dam. 1, H318   | Calculation method  |
| Acute Tox. 4, H302/332   | Calculation method  |
| Skin Sens. 1, H317   | Calculation method  |
| STOT RE 2, H373  | Calculation method  |
| Aquatic Chronic 3, H412  | Calculation method  |
| H3<br>H3<br>H3<br>H3<br>H3<br>H3<br>H3<br>H3<br>H3<br>H3<br>H3<br>H4 | <ul> <li>12: Harmful if swallowed.</li> <li>12: Harmful in contact with skin.</li> <li>14: Causes severe skin burns and eye damage.</li> <li>17: May cause an allergic skin reaction.</li> <li>18: Causes serious eye damage.</li> <li>30: Fatal if inhaled.</li> <li>32: Harmful if inhaled.</li> <li>35: May cause respiratory irritation.</li> <li>73: May cause damage to organs through prolonged or repeated exposure.</li> <li>12: Harmful to aquatic life with long lasting effects.</li> </ul> |
| Hazard pictogram names: 0  | Corrosion, exclamation mark, health hazard  |
| Changes to the SDS in this re  | evision: Section 14.8.  |
| Date of last revision: 29 Dec  | cember 2020   |
| Further information: None  |   |

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