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

* 1. **Product identifier**

|  |  |  |
| --- | --- | --- |
| Trade name | : | **Drillflog 110K10** |

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

|  |  |  |
| --- | --- | --- |
| Use of the Sub-  stance/Mixture | : | For drilling mud, |

|  |  |  |
| --- | --- | --- |
| Recommended restrictions  on use | : | For use in oil&gas industry |

* 1. **Details of the supplier of the safety data sheet**

|  |  |  |
| --- | --- | --- |
| Company | : | JV LLC “Process and water chemicals”  Street V. Kadirov 10-A, Chirchik city, Tashkent region, Republic of Uzbekistan. 111727 |

|  |  |  |
| --- | --- | --- |
| Telephone | : | +998999718800 |
| E-mail address of person responsible for the SDS | : | a.khakimov@pwch.uz |

* 1. **Emergency telephone number**

Carechem 24 International: +998999718800

# SECTION 2: Hazards identification

* 1. **Classification of the substance or mixture**

Not a hazardous substance or mixture.

* 1. **Label elements**

Not a hazardous substance or mixture.

* 1. **Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumula- tive and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regu- lation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Avoid spillage on floor as the product can become very slippery when wet.

# SECTION 3: Composition/information on ingredients

**3.2 Mixtures**

|  |  |  |
| --- | --- | --- |
| Chemical nature | : | Anionic water soluble polyacrylamide |

**Components**

|  |  |  |
| --- | --- | --- |
| Remarks | : | No hazardous ingredients |

# SECTION 4: First aid measures

* 1. **Description of first aid measures**

|  |  |  |
| --- | --- | --- |
| General advice | : | No hazards which require special first aid measures.  Show this safety data sheet to the doctor in attendance. |

|  |  |  |
| --- | --- | --- |
| Protection of first-aiders | : | No special precautions are necessary for first aid responders. |
| If inhaled | : | Remove to fresh air.  If there is difficulty in breathing, medical advice is required. |
| In case of skin contact | : | Wash off with soap and water. |
| In case of eye contact | : | In case of eye contact, remove contact lens and rinse imme- diately with plenty of water, also under the eyelids, for at least 15 minutes.  If eye irritation persists, consult a specialist. |
| If swallowed | : | No hazards which require special first aid measures. Rinse mouth with water.  Call a physician if symptoms occur. Do NOT induce vomiting.  Never give anything by mouth to an unconscious person. |

* 1. **Most important symptoms and effects, both acute and delayed**

|  |  |  |
| --- | --- | --- |
| Symptoms | : | No symptoms known or expected. |
| Risks | : | No hazards which require special first aid measures. |

* 1. **Indication of any immediate medical attention and special treatment needed**

|  |  |  |
| --- | --- | --- |
| Treatment | : | Symptomatic treatment. |

# SECTION 5: Firefighting measures

* 1. **Extinguishing media**

|  |  |  |
| --- | --- | --- |
| Suitable extinguishing media | : | Use water spray, alcohol-resistant foam, dry chemical or car- bon dioxide.  Product is compatible with standard fire-fighting agents. The product itself does not burn. |
| Unsuitable extinguishing media | : | High volume water jet  Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. |

* 1. **Special hazards arising from the substance or mixture**

|  |  |  |
| --- | --- | --- |
| Specific hazards during fire-  fighting | : | None known.  The product itself does not burn. |

* 1. **Advice for firefighters**

|  |  |  |
| --- | --- | --- |
| Special protective equipment  for firefighters | : | In the event of fire, wear self-contained breathing apparatus. |

|  |  |  |
| --- | --- | --- |
| Specific extinguishing meth- ods | : | Standard procedure for chemical fires.  Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.  Suppress (knock down) gases/vapours/mists with a water spray jet.  Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |
| Further information | : | Forms slippery/greasy layers with water. |

# SECTION 6: Accidental release measures

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

|  |  |  |
| --- | --- | --- |
| Personal precautions | : | For personal protection see section 8.  Material can create slippery conditions. |

* 1. **Environmental precautions**

|  |  |  |
| --- | --- | --- |
| Environmental precautions | : | Do not allow uncontrolled discharge of product into the envi- |

ronment.

If the product contaminates rivers and lakes or drains inform respective authorities.

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

|  |  |  |
| --- | --- | --- |
| Methods for cleaning up | : | Product becomes slippery when it is wet.  Take up mechanically and collect into suitable containers for disposal.  After cleaning, flush away traces with water. |

* 1. **Reference to other sections**

See Sections 7 and 8 for proper handling and protective measures and Section 13 for proper waste disposal measures.

# SECTION 7: Handling and storage

* 1. **Precautions for safe handling**

|  |  |  |
| --- | --- | --- |
| Technical measures | : | Install appropriate equipment and wear appropriate personal  protective equipment (see "8. Exposure control/personal pro- tection"). |
| Advice on safe handling | : | If potential for exposure exists refer to Section 8 for specific personal protective equipment.  Provide for appropriate exhaust ventilation and dust collection at machinery.  Minimize dust generation and accumulation. |
| Advice on protection against fire and explosion | : | No special precautions required. |
| Hygiene measures | : | Handle in accordance with good industrial hygiene and safety practice. Wash hands before eating, drinking, or smoking. |

* 1. **Conditions for safe storage, including any incompatibilities**

|  |  |  |
| --- | --- | --- |
| Requirements for storage areas and containers | : | The product is hygroscopic. Protect from moisture. |
| Further information on stor- age conditions | : | Aqueous solutions or powders produce extremely slippery surfaces. |
| Advice on common storage | : | No special restrictions on storage with other products. |
| Storage period | : | 24 Months |
| Recommended storage tem- perature | : | < 40 °C |
| Dampness | : | Keep in a dry place. |

|  |  |  |
| --- | --- | --- |
| Further information on stor- age conditions | : | Recommended storage temperature for quality reasons. The product is chemically stable.  No decomposition if stored normally. |

|  |  |  |
| --- | --- | --- |
| Packaging material | : | Suitable material: Polypropylene, Polyethylene, PVC, polyes- ter with fibreglass reinforcement, stainless steel (AISI 304), acid-resistant steel (AISI 316)  Unsuitable material: To avoid product degradation and equip- ment corrosion, do not use iron, copper or aluminium contain- ers or equipment. |

* 1. **Specific end use(s)**

|  |  |  |
| --- | --- | --- |
| Specific use(s) | : | For professional and industrial installation and use only. |

# SECTION 8: Exposure controls/personal protection

* 1. **Control parameters**
  2. **Exposure controls Engineering measures**

Maintain air concentrations below occupational exposure standards.

Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.

**Personal protective equipment**

|  |  |  |
| --- | --- | --- |
| Eye protection | : | Safety glasses with side-shields conforming to EN166 |
| Hand protection |  |  |
| Material | : | Nitrile rubber |

|  |  |  |
| --- | --- | --- |
| Remarks | : | Protective gloves complying with EN 374. Permeability tests are not available for this product. Please observe the instruc- tions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consid- eration the specific local conditions under which the product  is used, such as the danger of cuts, abrasion, and the contact time. |
| Skin and body protection | : | Long sleeved clothing |
| Respiratory protection | : | Dust safety masks are recommended when the dust concen- tration is more than 10 mg/m³.  Half mask with a particle filter P2 (EN 143) |
| Protective measures | : | Handle in accordance with good industrial hygiene and safety practice.  Wash hands and face before breaks and immediately after handling the product.  Avoid dust formation. Do not breathe dust.  Use personal protective equipment.  Eye wash bottle or emergency eye-wash fountain must be found in the work place. |

**Environmental exposure controls**

|  |  |  |
| --- | --- | --- |
| Water | : | Do not discharge large quantities of concentrated spills or residues into surface water or sanitary sewer system.  Retain and dispose of contaminated wash water. |

# SECTION 9: Physical and chemical properties

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

|  |  |  |
| --- | --- | --- |
| Physical state | : | powder |
| Colour | : | white |
| Odour | : | odourless |
| Odour Threshold | : | Not applicable |

|  |  |  |
| --- | --- | --- |
| Melting point/freezing point | : | Decomposes before melting. |

|  |  |  |
| --- | --- | --- |
| Boiling point/boiling range | : | Not applicable |

|  |  |  |
| --- | --- | --- |
| Flammability | : | Not classified as a flammability hazard, Not expected to form  explosive dust-air mixtures. |

|  |  |  |
| --- | --- | --- |
| Upper explosion limit / Upper  flammability limit | : | Not applicable |

|  |  |  |
| --- | --- | --- |
| Lower explosion limit / Lower  flammability limit | : | Not applicable |

|  |  |  |
| --- | --- | --- |
| Flash point | : | Not applicable |

|  |  |  |
| --- | --- | --- |
| Auto-ignition temperature | : | does not ignite |

|  |  |  |
| --- | --- | --- |
| Decomposition temperature | : | > 150 °C  Method: ISO 11358  No decomposition if stored and applied as directed. Hazardous decomposition products formed under fire condi- tions. |

|  |  |  |
| --- | --- | --- |
| pH | : | 6 - 8 (25 °C)  Concentration: 0,5 % |

Viscosity

|  |  |  |
| --- | --- | --- |
| Viscosity, dynamic | : | Not applicable |

|  |  |  |
| --- | --- | --- |
| Viscosity, kinematic | : | Not applicable |

Solubility(ies)

|  |  |  |
| --- | --- | --- |
| Water solubility | : | > 5 g/l (25 °C)  Limited by viscosity. |

|  |  |  |
| --- | --- | --- |
| Partition coefficient: n- octanol/water | : | log Pow: << 4  Method: OECD Test Guideline 107 Information refers to the main component. |

|  |  |  |
| --- | --- | --- |
| Vapour pressure | : | Not applicable |

|  |  |  |
| --- | --- | --- |
| Relative density | : | not determined |

|  |  |  |
| --- | --- | --- |
| Density | : | not determined |

|  |  |  |
| --- | --- | --- |
| Bulk density | : | 650 - 850 kg/m³ |
| Relative vapour density | : | Not applicable |

* 1. **Other Information**

|  |  |  |
| --- | --- | --- |
| Oxidizing properties | : | The substance or mixture is not classified as oxidizing. |

|  |  |  |
| --- | --- | --- |
| Minimum explosible dust con-  centration | : | Not applicable |
| Evaporation rate | : | Not applicable |

|  |  |  |
| --- | --- | --- |
| Surface tension | : | Surface activity is not to be expected. |

# SECTION 10: Stability and reactivity

* 1. **Reactivity**

Stable under recommended storage conditions.

* 1. **Chemical stability**

The product is chemically stable.

* 1. **Possibility of hazardous reactions**

|  |  |  |
| --- | --- | --- |
| Hazardous reactions | : | None reasonably foreseeable. |

* 1. **Conditions to avoid**

|  |  |  |
| --- | --- | --- |
| Conditions to avoid | : | Avoid contact with alkaline materials which will degrade the polymer.  Avoid moisture. |

* 1. **Incompatible materials**

|  |  |  |
| --- | --- | --- |
| Materials to avoid | : | Strong oxidizing agents |

* 1. **Hazardous decomposition products**

Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke. Ammonia

# SECTION 11: Toxicological information

* 1. **Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity**

**Product:**

|  |  |  |
| --- | --- | --- |
| Acute oral toxicity | : | LD50 Oral: > 5 000 mg/kg  Method: OECD Test Guideline 401 Remarks: Read-across (Analogy) |

|  |  |  |
| --- | --- | --- |
| Acute inhalation toxicity | : | Acute toxicity estimate: > 20 mg/l  Exposure time: 4 h |

|  |  |  |
| --- | --- | --- |
| Acute dermal toxicity | : | LD50 Dermal (Albino rabbit): > 10 000 mg/kg  Method: No guideline followed |

|  |  |  |
| --- | --- | --- |
| Acute toxicity (other routes of administration) | : | Remarks: This information is not available.  The product contains no substances known to be hazardous  to health in concentrations which need to be taken into ac- count. |

**Skin corrosion/irritation Product:**

|  |  |  |
| --- | --- | --- |
| Assessment | : | No skin irritation |
| Test substance | : | Read-across (Analogy) |
| Remarks | : | Literary reference |

**Serious eye damage/eye irritation Product:**

|  |  |  |
| --- | --- | --- |
| Species | : | Rabbit |
| Assessment | : | No eye irritation |
| Method | : | Draize Test |
| Test substance | : | Read-across (Analogy) |
| Remarks | : | Dust contact with the eyes can lead to mechanical irritation. |

**Respiratory or skin sensitisation Product:**

|  |  |  |
| --- | --- | --- |
| Test Type | : | Buehler Test |
| Exposure routes | : | Dermal |
| Species | : | Guinea pig |
| Assessment | : | Does not cause skin sensitisation. |
| Method | : | OECD Test Guideline 406 |
| Result | : | negative |
| Test substance | : | Read-across (Analogy) |

|  |  |  |
| --- | --- | --- |
| Exposure routes | : | Inhalation |
| Assessment | : | Does not cause respiratory sensitisation. |
| Method | : | Calculation method |

**Germ cell mutagenicity Product:**

|  |  |  |
| --- | --- | --- |
| Genotoxicity in vivo | : | Remarks: Based on available data, the classification criteria  are not met. |

**Carcinogenicity Product:**

|  |  |  |
| --- | --- | --- |
| Remarks | : | Based on available data, the classification criteria are not met. |

**Reproductive toxicity Product:**

|  |  |  |
| --- | --- | --- |
| Effects on fertility | : | Remarks: Based on available data, the classification criteria  are not met. |

**STOT - single exposure Product:**

|  |  |  |
| --- | --- | --- |
| Remarks | : | Based on available data, the classification criteria are not met. |

**STOT - repeated exposure Product:**

|  |  |  |
| --- | --- | --- |
| Remarks | : | Based on available data, the classification criteria are not met. |

**Repeated dose toxicity Product:**

|  |  |  |
| --- | --- | --- |
| Remarks | : | No data available |

**Aspiration toxicity Product:**

No aspiration toxicity classification

* 1. **Information on other hazards Endocrine disrupting properties Product:**

|  |  |  |
| --- | --- | --- |
| Assessment | : | The substance/mixture does not contain components consid- ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. |

# SECTION 12: Ecological information

* 1. **Toxicity**

Product:

|  |  |  |
| --- | --- | --- |
| Toxicity to fish | : | LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l |

Exposure time: 96 h Test Type: Acute toxicity

Method: OECD Test Guideline 203 Remarks: Read-across (Analogy)

|  |  |  |
| --- | --- | --- |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h  Test Type: Immobilization  Test substance: Read-across (Analogy) Method: OECD Test Guideline 202 |
|  |  | EC50 (Acartia tonsa (copepod)): 342 mg/l Exposure time: 48 h  Test Type: Immobilization  Test substance: Read-across (Analogy) Method: PARCOM SOP 106 |
| Toxicity to algae/aquatic plants | : | IC50 (Green algae (Selenastrum capricornutum)): > 100 mg/l Exposure time: 72 h  Test Type: Growth inhibition Method: OECD Test Guideline 201 |
|  |  | IC50 (Skeletonema costatum (diatom)): 2 276 mg/l Exposure time: 72 h  Test Type: Growth inhibition Method: PARCOM SOP 104 |

|  |  |  |
| --- | --- | --- |
| Sediment toxicity | : | EC50: 1415 mg/l Exposure duration: 10 d  Species: Corophium volutator (amphipoda) Method: PARCOM SOP 102  Remarks: Read-across (Analogy) |

* 1. **Persistence and degradability Product:**

|  |  |  |
| --- | --- | --- |
| Biodegradability | : | Test Type: Closed Bottle test Biodegradation: < 10 % Exposure time: 28 d  Method: OECD Test Guideline 306 Test substance: Read-across (Analogy)  Remarks: The polymeric ingredient is not readily biodegrada- ble. |

* 1. **Bioaccumulative potential Product:**

|  |  |  |
| --- | --- | --- |
| Bioaccumulation | : | Remarks: No bioaccumulation is to be expected (log Pow <=  4). |

* 1. **Mobility in soil**

No data available

* 1. **Results of PBT and vPvB assessment Product:**

|  |  |  |
| --- | --- | --- |
| Assessment | : | This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or  very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. |

* 1. **Endocrine disrupting properties Product:**

|  |  |  |
| --- | --- | --- |
| Assessment | : | The substance/mixture does not contain components consid- ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation  (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. |

* 1. **Other adverse effects Product:**

|  |  |  |
| --- | --- | --- |
| Additional ecological infor- mation | : | Information given is based on data on the components and the ecotoxicology of similar products.  This product has no known ecotoxicological effects. |

# SECTION 13: Disposal considerations

**13.1 Waste treatment methods**

|  |  |  |
| --- | --- | --- |
| Product | : | Recycling, recovery and reuse of materials is recommended if permitted by regulations.  If recycling is not practicable, dispose of in compliance with local regulations. |
| Contaminated packaging | : | Must be disposed of in accordance with local and national regulations. |

# SECTION 14: Transport information

* 1. **UN number or ID number**

Not regulated as a dangerous good

* 1. **UN proper shipping name**

Not regulated as a dangerous good

* 1. **Transport hazard class(es)**

Not regulated as a dangerous good

* 1. **Packing group**

Not regulated as a dangerous good

* 1. **Environmental hazards**

Not regulated as a dangerous good

* 1. **Special precautions for user**

|  |  |  |
| --- | --- | --- |
| Remarks | : | None known. |

* 1. **Maritime transport in bulk according to IMO instruments**

Not applicable for product as supplied.

# SECTION 15: Regulatory information

* 1. **Safety, health and environmental regulations/legislation specific for the substance or mix- ture**

|  |  |  |
| --- | --- | --- |
| Regulation (EC) No 649/2012 of the European Parlia- ment and the Council concerning the export and import  of dangerous chemicals | : | Not applicable |

|  |  |
| --- | --- |
| Seveso III: Directive 2012/18/EU of the Euro- pean Parliament and of the Council on the  control of major-accident hazards involving dangerous substances. | Not applicable |

|  |  |  |
| --- | --- | --- |
| Volatile organic compounds | : | Directive 2010/75/EU of 24 November 2010 on industrial  emissions (integrated pollution prevention and control) Not applicable |

**Other regulations:**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**The components of this product are reported in the following inventories:**

|  |  |  |
| --- | --- | --- |
| TSCA | : | All components of this product are included in the United States TSCA Chemical Inventory with Active Status or are not required to be listed on the United States TSCA Chemical  Inventory. |

|  |  |  |
| --- | --- | --- |
| DSL | : | All components of this product are included in the Canada Domestic Substance List (DSL) or are not required to be listed  on the Canada Domestic Substance List (DSL). |

:

|  |  |  |
| --- | --- | --- |
| EINECS | : | All components of this product are included in the European  Inventory of Existing Chemical Substances (EINECS) or are not required to be listed on EINECS. |

|  |  |  |
| --- | --- | --- |
| AIIC | : | All components of this product are included in the Australian  Inventory of Industrial Chemicals (AIIC) or are not required to be listed on the Australian Inventory of Industrial Chemicals |

(AIIC).

|  |  |  |
| --- | --- | --- |
| IECSC | : | All components of this product are included on the Chinese inventory or are not required to be listed on the Chinese in-  ventory. |

|  |  |  |
| --- | --- | --- |
| ENCS | : | All components of this product are included on the Japanese (ENCS) inventory or are not required to be listed on the Japa-  nese (ENCS) inventory. |

|  |  |  |
| --- | --- | --- |
| KECI | : | All components of this product are included in the Korean (ECL) inventory or are not required to be listed on the Korean  (ECL) inventory. |

|  |  |  |
| --- | --- | --- |
| PICCS | : | All components of this product are included on the Philippine (PICCS) inventory or are not required to be listed on the Phil-  ippine (PICCS) inventory. |

|  |  |  |
| --- | --- | --- |
| NZIoC | : | All components of this product are included in the New Zea-  land inventory (NZIoC) or are not required to be listed on the New Zealand inventory(NZIoC). |

|  |  |  |
| --- | --- | --- |
| TCSI | : | All components of this product are included on the Taiwan  Toxic Chemical Substances Control Act Inventory. |

* 1. **Chemical safety assessment**

A Chemical Safety Assessment is not required for this mixture.

# SECTION 16: Other information

**Full text of other abbreviations**

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Test- ing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regula- tion (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 - Emergen- cy Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration as- sociated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good La- boratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships car- rying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - Interna- tional 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 popula-

tion; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - Interna- tional 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) Ef- fect 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 sub- stance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quanti- tative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Re- striction 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; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA

* Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

**Further information**

|  |  |  |
| --- | --- | --- |
| Training advice | : | Read the safety data sheet before using the product. |

|  |  |  |
| --- | --- | --- |
| Other information | : | Relevant changes have been marked with vertical lines. |
| Sources of key data used to  compile the Safety Data Sheet | : | Regulations, databases, literature, own tests. |
| **Classification of the mixture:** |  | **Classification procedure:** |
|  |  | Bridging principle "Substantially simi- lar mixtures". |

The information provided in this Safety Data Sheet is correct to the best of our knowledge, infor- mation and belief at the date of its publication. The information given is designed only as a guid- ance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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