

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## Krytox™ GPL 103

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 13.01.2026  |
| 4.0     | 09.04.2026     | 9582418-00012 | Date of first issue: 15.09.2021 |

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

#### 1.1 Product identifier

|                |   |                 |
|----------------|---|-----------------|
| Trade name     | : | Krytox™ GPL 103 |
| SDS-Identcode  | : | 130000024216    |
| Substance name | : | PFPE fluid      |

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

|                                    |   |                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Use of the Sub-<br>stance/Mixture  | : | Lubricant                                                                                                                                                                                                                                                                                                                                      |
| Recommended restrictions<br>on use | : | For industrial use only.<br>Do not use or resell Chemours™ materials in medical applica-<br>tions involving implantation in the human body or contact with<br>internal body fluids or tissues unless agreed to by Seller in a<br>written agreement covering such use. For further information,<br>please contact your Chemours representative. |

#### 1.3 Details of the supplier of the safety data sheet

|                                                     |   |                                                                              |
|-----------------------------------------------------|---|------------------------------------------------------------------------------|
| Company                                             | : | Chemours Netherlands B.V.<br>Baanhoekweg 22<br>3313 LA Dordrecht Netherlands |
| Telephone                                           | : | +31-(0)-78-630-1011                                                          |
| Telefax                                             | : | +31-78-6163737                                                               |
| E-mail address of person<br>responsible for the SDS | : | sds-support@chemours.com                                                     |

#### 1.4 Emergency telephone number

+44 20 3807 3798 (CHEMTREC - Recommended)

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK  
SI 2019/720, and UK SI 2020/1567)

Not a hazardous substance or mixture.

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### 2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)**

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

### 2.3 Other hazards

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.

The thermal decomposition vapours of fluorinated plastics may cause polymer fume fever with flu-like symptoms in humans, especially when smoking contaminated tobacco.

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## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Substance name : PFPE fluid

#### Components

No hazardous ingredients

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

|                            |                                                                                                                           |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Protection of first-aiders | : No special precautions are necessary for first aid responders.                                                          |
| If inhaled                 | : If inhaled, remove to fresh air.<br>Get medical attention if symptoms occur.                                            |
| In case of skin contact    | : Wash with water and soap as a precaution.<br>Get medical attention if symptoms occur.                                   |
| In case of eye contact     | : Flush eyes with water as a precaution.<br>Get medical attention if irritation develops and persists.                    |
| If swallowed               | : If swallowed, DO NOT induce vomiting.<br>Get medical attention if symptoms occur.<br>Rinse mouth thoroughly with water. |

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

Symptoms : Inhalation may provoke the following symptoms:  
Polymer fume fever

Skin contact may provoke the following symptoms:

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Redness

Eye contact may provoke the following symptoms

Blurred vision

Discomfort

Lachrymation

Inhalation may provoke the following symptoms:

Irritation

Shortness of breath

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

|| Treatment : Treat symptomatically and supportively.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Not applicable  
Will not burn

Unsuitable extinguishing media : Not applicable  
Will not burn

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Exposure to combustion products may be a hazard to health.

Hazardous combustion products : Hydrogen fluoride  
carbonyl fluoride  
potentially toxic fluorinated compounds  
aerosolized particulates  
Carbon oxides

### 5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Remove undamaged containers from fire area if it is safe to do so.  
Evacuate area.

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### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).

#### 6.2 Environmental precautions

Environmental precautions : Avoid release to the environment.  
Prevent further leakage or spillage if safe to do so.  
Prevent spreading over a wide area (e.g. by containment or oil barriers).  
Retain and dispose of contaminated wash water.  
If spillage enters rivers or watercourses, inform the Environment Agency (emergency telephone number 0800 807060).

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

Methods for cleaning up : Soak up with inert absorbent material.  
For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container.  
Clean up remaining materials from spill with suitable absorbent.  
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.  
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

#### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation : Use only with adequate ventilation.

Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment  
Take care to prevent spills, waste and minimize release to the environment.

Do not breathe decomposition products.

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Hygiene measures : If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

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

Requirements for storage areas and containers : Keep in properly labelled containers. Store in accordance with the particular national regulations.

Advice on common storage : No special restrictions on storage with other products.

Further information on storage stability : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : No data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Contains no substances with occupational exposure limit values.

#### Occupational exposure limits of decomposition products

| Components                      | CAS-No.   | Value type (Form of exposure) | Control parameters                             | Basis      |
|---------------------------------|-----------|-------------------------------|------------------------------------------------|------------|
| Hydrofluoric acid               | 7664-39-3 | TWA                           | 1.8 ppm<br>1.5 mg/m <sup>3</sup><br>(Fluorine) | GB EH40    |
|                                 |           | STEL                          | 3 ppm<br>2.5 mg/m <sup>3</sup><br>(Fluorine)   | GB EH40    |
|                                 |           | TWA                           | 1.8 ppm<br>1.5 mg/m <sup>3</sup>               | 2000/39/EC |
| Further information: Indicative |           |                               |                                                |            |
|                                 |           | STEL                          | 3 ppm<br>2.5 mg/m <sup>3</sup>                 | 2000/39/EC |
| Further information: Indicative |           |                               |                                                |            |
| Carbonyl difluoride             | 353-50-4  | TWA                           | 2.5 mg/m <sup>3</sup><br>(Fluorine)            | 2000/39/EC |
| Further information: Indicative |           |                               |                                                |            |
| Carbon dioxide                  | 124-38-9  | TWA                           | 5,000 ppm<br>9,150 mg/m <sup>3</sup>           | GB EH40    |
|                                 |           | STEL                          | 15,000 ppm<br>27,400 mg/m <sup>3</sup>         | GB EH40    |
|                                 |           | TWA                           | 5,000 ppm                                      | 2006/15/EC |

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|                 |                                              |      |                      |             |
|-----------------|----------------------------------------------|------|----------------------|-------------|
|                 |                                              |      | 9,000 mg/m3          |             |
|                 | Further information: Indicative              |      |                      |             |
| Carbon monoxide | 630-08-0                                     | TWA  | 20 ppm<br>23 mg/m3   | GB EH40     |
|                 |                                              | STEL | 100 ppm<br>117 mg/m3 | GB EH40     |
|                 |                                              | STEL | 100 ppm<br>117 mg/m3 | 2017/164/EU |
|                 | Further information: Indicative              |      |                      |             |
|                 |                                              | TWA  | 20 ppm<br>23 mg/m3   | 2017/164/EU |
|                 | Further information: Indicative              |      |                      |             |
|                 |                                              | TWA  | 20 ppm<br>23 mg/m3   | 2004/37/EC  |
|                 | Further information: Carcinogens or mutagens |      |                      |             |
|                 |                                              | STEL | 100 ppm<br>117 mg/m3 | 2004/37/EC  |
|                 | Further information: Carcinogens or mutagens |      |                      |             |

### Biological occupational exposure limits of decomposition products.

| Substance name  | CAS-No.  | Control parameters                                             | Sampling time | Basis          |
|-----------------|----------|----------------------------------------------------------------|---------------|----------------|
| Carbon monoxide | 630-08-0 | Carbon monoxide:<br>30 parts per million<br>(End-tidal breath) | After shift   | GB EH40<br>BAT |

## 8.2 Exposure controls

### Appropriate engineering controls

Processing may form hazardous compounds (see section 10).

Ensure adequate ventilation, especially in confined areas.

Minimize workplace exposure concentrations.

### Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection : Wear the following personal protective equipment:  
Safety glasses  
Equipment should conform to BS EN 166

Hand protection

Remarks : Wash hands before breaks and at the end of workday.

Skin and body protection : Skin should be washed after contact.

Respiratory protection : If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.  
Filter should conform to BS EN 14387

Filter type : Combined acidic gas/vapour and organic vapour type (AE)

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### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

|                                                  |   |                                                     |
|--------------------------------------------------|---|-----------------------------------------------------|
| Appearance                                       | : | viscous liquid                                      |
| Colour                                           | : | colourless                                          |
| Odour                                            | : | odourless                                           |
| Odour Threshold                                  | : | No data available                                   |
| pH                                               | : | 7                                                   |
| Melting point/freezing point                     | : | No data available                                   |
| Initial boiling point and boiling range          | : | No data available                                   |
| Flash point                                      | : | Method: Pensky-Martens closed cup<br>does not flash |
| Evaporation rate                                 | : | No data available                                   |
| Flammability (solid, gas)                        | : | Not applicable                                      |
| Flammability (liquids)                           | : | Will not burn                                       |
| Upper explosion limit / Upper flammability limit | : | No data available                                   |
| Lower explosion limit / Lower flammability limit | : | No data available                                   |
| Vapour pressure                                  | : | No data available                                   |
| Relative vapour density                          | : | No data available                                   |
| Relative density                                 | : | 1.86 - 1.91 (24 °C)                                 |
| Solubility(ies)                                  |   |                                                     |
| Water solubility                                 | : | insoluble                                           |
| Partition coefficient: n-octanol/water           | : | No data available                                   |
| Auto-ignition temperature                        | : | No data available                                   |
| Decomposition temperature                        | : | 350 °C                                              |
| Viscosity                                        |   |                                                     |
| Viscosity, kinematic                             | : | No data available                                   |

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Explosive properties : Not explosive

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

### 9.2 Other information

Particle size : Not applicable

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Not classified as a reactivity hazard.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Hazardous decomposition products will be formed at elevated temperatures.

### 10.4 Conditions to avoid

Conditions to avoid : None known.

### 10.5 Incompatible materials

Materials to avoid : None.

### 10.6 Hazardous decomposition products

Thermal decomposition : Hydrofluoric acid  
Carbonyl difluoride  
Carbon dioxide  
Carbon monoxide

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Information on likely routes of exposure : Inhalation  
Skin contact  
Ingestion  
Eye contact

#### Acute toxicity

Not classified based on available information.

#### Skin corrosion/irritation

Not classified based on available information.

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### **Serious eye damage/eye irritation**

Not classified based on available information.

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

Not classified based on available information.

#### **Respiratory sensitisation**

Not classified based on available information.

### **Germ cell mutagenicity**

Not classified based on available information.

### **Carcinogenicity**

Not classified based on available information.

### **Reproductive toxicity**

Not classified based on available information.

### **STOT - single exposure**

Not classified based on available information.

### **STOT - repeated exposure**

Not classified based on available information.

### **Aspiration hazard**

Not classified based on available information.

### **Endocrine disrupting properties**

#### **Product:**

Assessment : This substance/mixture does not contain components considered to have endocrine disrupting properties for human health according to UK REACH Article 57(f), at levels of 0.1% or higher.

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## **SECTION 12: Ecological information**

### **12.1 Toxicity**

No data available

### **12.2 Persistence and degradability**

No data available

### **12.3 Bioaccumulative potential**

No data available

### **12.4 Mobility in soil**

No data available

### **12.5 Results of PBT and vPvB assessment**

#### **Product:**

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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.

### 12.6 Other adverse effects

#### Product:

#### Endocrine disrupting properties

#### Product:

Assessment : This substance/mixture does not contain components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f) at levels of 0.1% or higher.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.  
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.  
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.  
Do not dispose of waste into sewer.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.  
If not otherwise specified: Dispose of as unused product.

## SECTION 14: Transport information

### 14.1 UN number

|      |                                     |
|------|-------------------------------------|
| ADN  | : Not regulated as a dangerous good |
| ADR  | : Not regulated as a dangerous good |
| RID  | : Not regulated as a dangerous good |
| IMDG | : Not regulated as a dangerous good |
| IATA | : Not regulated as a dangerous good |

### 14.2 UN proper shipping name

|     |                                     |
|-----|-------------------------------------|
| ADN | : Not regulated as a dangerous good |
| ADR | : Not regulated as a dangerous good |
| RID | : Not regulated as a dangerous good |

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|      |                                     |
|------|-------------------------------------|
| IMDG | : Not regulated as a dangerous good |
| IATA | : Not regulated as a dangerous good |

### 14.3 Transport hazard class(es)

|      |                                     |
|------|-------------------------------------|
| ADN  | : Not regulated as a dangerous good |
| ADR  | : Not regulated as a dangerous good |
| RID  | : Not regulated as a dangerous good |
| IMDG | : Not regulated as a dangerous good |
| IATA | : Not regulated as a dangerous good |

### 14.4 Packing group

|                  |                                     |
|------------------|-------------------------------------|
| ADN              | : Not regulated as a dangerous good |
| ADR              | : Not regulated as a dangerous good |
| RID              | : Not regulated as a dangerous good |
| IMDG             | : Not regulated as a dangerous good |
| IATA (Cargo)     | : Not regulated as a dangerous good |
| IATA (Passenger) | : Not regulated as a dangerous good |

### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

Not applicable

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks : Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

|                                                                                                                 |                  |
|-----------------------------------------------------------------------------------------------------------------|------------------|
| UK REACH List of restrictions (Annex 17)                                                                        | : Not applicable |
| UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation                             | : Not applicable |
| The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain) | : Not applicable |
| Regulation (EU) No 2024/590 on substances that deplete the ozone layer                                          | : Not applicable |
| UK REACH List of substances subject to authorisation (Annex XIV)                                                | : Not applicable |

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GB Export and import of hazardous chemicals - Prior : Not applicable  
Informed Consent (PIC) Regulation

Control of Major Accident Hazards Regulations 2015 (COMAH)  
Not applicable

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

Other information : Krytox™ and any associated logos are trademarks or copy-  
rights of The Chemours Company FC, LLC.  
Chemours™ and the Chemours Logo are trademarks of The  
Chemours Company.  
Before use read Chemours safety information.  
For further information contact the local Chemours office or  
nominated distributors.

Items where changes have been made to the previous version  
are highlighted in the body of this document by two vertical  
lines.

### Full text of other abbreviations

|                    |                                                                                                                                                                            |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2000/39/EC         | : Europe. Commission Directive 2000/39/EC establishing a first<br>list of indicative occupational exposure limit values                                                    |
| 2004/37/EC         | : Europe. Directive 2004/37/EC on the protection of workers<br>from the risks related to exposure to carcinogens, mutagens<br>or reprotoxic substances at work - Annex III |
| 2006/15/EC         | : Europe. Indicative occupational exposure limit values                                                                                                                    |
| 2017/164/EU        | : Europe. Commission Directive 2017/164/EU establishing a<br>fourth list of indicative occupational exposure limit values                                                  |
| GB EH40            | : UK. EH40 WEL - Workplace Exposure Limits                                                                                                                                 |
| GB EH40 BAT        | : UK. Biological monitoring guidance values                                                                                                                                |
| 2000/39/EC / TWA   | : Limit Value - eight hours                                                                                                                                                |
| 2000/39/EC / STEL  | : Short term exposure limit                                                                                                                                                |
| 2004/37/EC / STEL  | : Short term exposure limit                                                                                                                                                |
| 2004/37/EC / TWA   | : Long term exposure limit                                                                                                                                                 |
| 2006/15/EC / TWA   | : Limit Value - eight hours                                                                                                                                                |
| 2017/164/EU / STEL | : Short term exposure limit                                                                                                                                                |
| 2017/164/EU / TWA  | : Limit Value - eight hours                                                                                                                                                |
| GB EH40 / TWA      | : Long-term exposure limit (8-hour TWA reference period)                                                                                                                   |
| GB EH40 / STEL     | : Short-term exposure limit (15-minute reference period)                                                                                                                   |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland  
Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by  
Road; AIIIC - 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

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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 Harmonised 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 Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; 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 - Organisation 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; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

### Further information

Other information :

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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