

# Safety data sheet Safety data sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)



Transfer membrane ROTI®NC 0.2 300 x 30 cm

article number: 1YXN  
Version: 1.0 en

date of compilation: 2023-02-01

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

### 1.1 Product identifier

Identification of the substance **Transfer membrane ROTI®NC 0.2 300 x 30 cm**  
Article number 1YXN

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

Relevant identified uses: Laboratory chemical  
Laboratory and analytical use  
Uses advised against: Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household).

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

Carl Roth GmbH + Co KG  
Schoemperlenstr. 3-5  
D-76185 Karlsruhe  
Germany

**Telephone:**+49 (0) 721 - 56 06 0

**Telefax:** +49 (0) 721 - 56 06 149

**e-mail:** sicherheit@carlroth.de

**Website:** www.carlroth.de

Competent person responsible for the safety data sheet: :Department Health, Safety and Environment

**e-mail (competent person):** sicherheit@carlroth.de

### 1.4 Emergency telephone number

| Name  | Street    | Postal code/city     | Telephone    | Website |
|---|-----------|----------------------|--------------|---------|
| National Poisons Information Service<br>City Hospital | Dudley Rd | B187QH<br>Birmingham | 844 892 0111 |         |

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification acc. to GHS

| Section | Hazard class    | Cat-egory | Hazard class and category | Hazard statement |
|---------|-----------------|-----------|---------------------------|------------------|
| 2.7     | Flammable solid | 1         | Flam. Sol. 1              | H228             |

For full text of abbreviations: see SECTION 16

### 2.2 Label elements

**Labelling**

**Signal word** Danger

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## Pictograms

GHS02



## Hazard statements

H228 Flammable solid

## Precautionary statements

### Precautionary statements - prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

## 2.3 Other hazards

### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

not relevant (mixture)

### 3.2 Mixtures

#### Description of the mixture

| Name of substance | Identifier                              | Wt%        | Classification acc. to GHS | Pictograms | Notes |
|-------------------|---|------------|----------------------------|------------|-------|
| Nitrocellulose    | CAS No<br>9004-70-0                     | 70 - < 100 | Flam. Sol. 1 / H228        |            |       |
| Glycerine         | CAS No<br>56-81-5<br>EC No<br>200-289-5 | 6 - < 10   |                            |            | IOELV |

#### Notes

IOELV: Substance with a community indicative occupational exposure limit value

For full text of abbreviations: see SECTION 16

## SECTION 4: First aid measures

### 4.1 Description of first aid measures



#### General notes

No special measures are necessary.

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## Following inhalation

No special measures are necessary. There is no major dust generation possible.

## Following skin contact

Brush off loose particles from skin. No special measures are necessary.

## Following eye contact

No special measures are necessary.

## Following ingestion

No special measures are necessary.

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

Symptoms and effects are not known to date.

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

none

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media



#### Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings  
water, foam, dry extinguishing powder, ABC-powder

#### Unsuitable extinguishing media

water jet

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

Combustible.

#### Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), May produce toxic fumes of carbon monoxide if burning.

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

## SECTION 6: Accidental release measures

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



#### For non-emergency personnel

No special measures are necessary.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water.

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## 6.3 Methods and material for containment and cleaning up

### Advice on how to contain a spill

Take up mechanically.

### Advice on how to clean up a spill

Take up mechanically.

### Other information relating to spills and releases

Place in appropriate containers for disposal.

## 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

No special measures are necessary.

### Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs. When using do not smoke.

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

Store in a dry place.

### Incompatible substances or mixtures

Observe hints for combined storage.

### Protect against external exposure, such as

UV-radiation/sunlight

### Consideration of other advice:

### Specific designs for storage rooms or vessels

Recommended storage temperature: 15 – 25 °C

### 7.3 Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### National limit values

#### Occupational exposure limit values (Workplace Exposure Limits)

| Country | Name of agent | CAS No  | Identifier | TWA [mg/m <sup>3</sup> ] | STEL [mg/m <sup>3</sup> ] | Ceiling-C [mg/m <sup>3</sup> ] | Notation | Source    |
|---------|---------------|---------|------------|--------------------------|---------------------------|--------------------------------|----------|-----------|
| GB      | glycerol      | 56-81-5 | WEL        | 10                       |                           |                                | mist     | EH40/2005 |

#### Notation

Ceiling-C Ceiling value is a limit value above which exposure should not occur

mist As mists

STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

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| Relevant DNELs of components of the mixture |         |           |                       |                                    |                   |                         |
|---|---------|-----------|-----------------------|------------------------------------|-------------------|-------------------------|
| Name of substance                           | CAS No  | End-point | Threshold level       | Protection goal, route of exposure | Used in           | Exposure time           |
| Glycerine                                   | 56-81-5 | DNEL      | 220 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | chronic - local effects |

| Relevant PNECs of components of the mixture |         |           |                 |                   |                              |                              |
|---|---------|-----------|-----------------|-------------------|------------------------------|------------------------------|
| Name of substance                           | CAS No  | End-point | Threshold level | Organism          | Environmental compartment    | Exposure time                |
| Glycerine                                   | 56-81-5 | PNEC      | 1.000 mg/l      | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |

### 8.2 Exposure controls

#### Individual protection measures (personal protective equipment)

##### Eye/face protection



Use safety goggle with side protection.

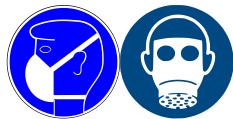
##### Skin protection



##### • hand protection

Hand protection is not required.

##### Respiratory protection



Usually no personal respiratory protection necessary.

##### Environmental exposure controls

Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                              |                |
|------------------------------|----------------|
| Physical state               | solid          |
| Colour                       | white          |
| Odour                        | odourless      |
| Melting point/freezing point | not determined |

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|  |   |
|--|---|
| Boiling point or initial boiling point and boiling range | not determined                                  |
| Flammability   | flammable solid in accordance with GHS criteria |
| Lower and upper explosion limit                          | not determined                                  |
| Flash point  | not applicable                                  |
| Auto-ignition temperature                                | not determined                                  |
| Decomposition temperature                                | not relevant                                    |
| pH (value)   | not applicable                                  |
| Kinematic viscosity                                      | not relevant                                    |

### Solubility(ies)

Water solubility not determined

### Partition coefficient

Partition coefficient n-octanol/water (log value): this information is not available

Vapour pressure not determined

### Density and/or relative density

Density not determined

Relative vapour density information on this property is not available

Particle characteristics No data available.

### Other safety parameters

Oxidising properties none

## 9.2 Other information

Information with regard to physical hazard classes: There is no additional information.

Other safety characteristics: There is no additional information.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Risk of ignition.

#### **If heated**

Risk of ignition.

### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

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## 10.3 Possibility of hazardous reactions

**Violent reaction with:** strong oxidiser

## 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

## 10.5 Incompatible materials

There is no additional information.

## 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

#### Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### Classification acc. to GHS

#### Acute toxicity

Shall not be classified as acutely toxic.

| Acute toxicity of components of the mixture |         |                          |          |                                  |         |
|---|---------|--------------------------|----------|----------------------------------|---------|
| Name of substance                           | CAS No  | Exposure route           | Endpoint | Value                            | Species |
| Glycerine                                   | 56-81-5 | dermal                   | LD50     | >10.000 mg/kg                    | rabbit  |
| Glycerine                                   | 56-81-5 | oral                     | LD50     | 27.200 mg/kg                     | rat     |
| Glycerine                                   | 56-81-5 | inhalation:<br>dust/mist | LC50     | >5.850 mg/m <sup>3</sup> /<br>4h | rat     |

#### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

#### Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

#### Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

#### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

#### Carcinogenicity

Shall not be classified as carcinogenic.

#### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

#### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

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## Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

## Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

## Symptoms related to the physical, chemical and toxicological characteristics

### • If swallowed

Data are not available.

### • If in eyes

Data are not available.

### • If inhaled

Data are not available.

### • If on skin

Data are not available.

### • Other information

Health effects are not known.

## 11.2 Endocrine disrupting properties

None of the ingredients are listed.

## 11.3 Information on other hazards

There is no additional information.

## SECTION 12: Ecological information

### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

| Aquatic toxicity (acute) of components of the mixture |         |          |             |         |               |
|---|---------|----------|-------------|---------|---------------|
| Name of substance                                     | CAS No  | Endpoint | Value       | Species | Exposure time |
| Glycerine   | 56-81-5 | LC50     | 54.000 mg/l | fish    | 96 h          |

### 12.2 Persistence and degradability

| Degradability of components of the mixture |         |                |                  |      |        |        |
|--|---------|----------------|------------------|------|--------|--------|
| Name of substance                          | CAS No  | Process        | Degradation rate | Time | Method | Source |
| Glycerine                                  | 56-81-5 | biotic/abiotic | 63 %             | 14 d |        |        |

### 12.3 Bioaccumulative potential

Data are not available.



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## Bioaccumulative potential of components of the mixture

| Name of substance | CAS No  | BCF | Log KOW                      | BOD5/COD |
|-------------------|---------|-----|------------------------------|----------|
| Glycerine         | 56-81-5 |     | -1,75 (pH value: 7,4, 25 °C) |          |

### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

Data are not available.

### 12.6 Endocrine disrupting properties

None of the ingredients are listed.

### 12.7 Other adverse effects

Data are not available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Sewage disposal-relevant information

Do not empty into drains.

#### Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used.

### 13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

#### Properties of waste which render it hazardous

HP 3 flammable

### 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

## SECTION 14: Transport information

### 14.1 UN number or ID number

|           |         |
|-----------|---------|
| ADRRID    | UN 3270 |
| IMDG-Code | UN 3270 |
| ICAO-TI   | UN 3270 |

### 14.2 UN proper shipping name

|           |                                 |
|-----------|---------------------------------|
| ADRRID    | NITROCELLULOSE MEMBRANE FILTERS |
| IMDG-Code | NITROCELLULOSE MEMBRANE FILTERS |



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|   |   |
|---|---|
| ICAO-TI   | Nitrocellulose membrane filters                                       |
| <b>14.3 Transport hazard class(es)</b>  |   |
| ADRRID  | 4.1   |
| IMDG-Code   | 4.1   |
| ICAO-TI   | 4.1   |
| <b>14.4 Packing group</b>   |   |
| ADRRID  | II  |
| IMDG-Code   | II  |
| ICAO-TI   | II  |
| <b>14.5 Environmental hazards</b>   | non-environmentally hazardous acc. to the dangerous goods regulations |
| <b>14.6 Special precautions for user</b>  |   |
| Provisions for dangerous goods (ADR) should be complied within the premises.                                    |   |
| <b>14.7 Maritime transport in bulk according to IMO instruments</b>   |   |
| The cargo is not intended to be carried in bulk.  |   |
| <b>14.8 Information for each of the UN Model Regulations</b>  |   |
| <b>Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)Additional information</b>   |   |
| Proper shipping name  | NITROCELLULOSE MEMBRANE FILTERS                                       |
| Particulars in the transport document   | UN3270, NITROCELLULOSE MEMBRANE FILTERS, 4.1, II, (E)                 |
| Classification code   | F1  |
| Danger label(s)   | 4.1   |
|                              |   |
| Special provisions (SP)   | 237, 286  |
| Excepted quantities (EQ)  | E2  |
| Limited quantities (LQ)   | 1 kg  |
| Transport category (TC)   | 2   |
| Tunnel restriction code (TRC)   | E   |
| <b>Emergency Action Code</b>  | 1Z  |
| <b>Regulations concerning the International Carriage of Dangerous Goods by Rail (RID)Additional information</b> |   |
| <b>Classification code</b>  | F1  |
| <b>Danger label(s)</b>  | 4.1   |
|                              |   |
| <b>Special provisions (SP)</b>  | 237, 286  |



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|   |  |
|---|--|
| <b>Excepted quantities (EQ)</b>   | E2   |
| <b>Limited quantities (LQ)</b>  | 1 kg   |
| <b>Transport category (TC)</b>  | 2  |
| <b>Hazard identification No</b>   | 40   |
| <b>International Maritime Dangerous Goods Code (IMDG) - Additional information</b>        |  |
| Proper shipping name  | NITROCELLULOSE MEMBRANE FILTERS                  |
| Particulars in the shipper's declaration  | UN3270, NITROCELLULOSE MEMBRANE FILTERS, 4.1, II |
| Marine pollutant  | -  |
| Danger label(s)   | 4.1  |
|          |  |
| Special provisions (SP)   | 237, 286   |
| Excepted quantities (EQ)  | E2   |
| Limited quantities (LQ)   | 1 kg   |
| EmS   | F-A, S-I   |
| Stowage category  | D  |
| <b>International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information</b> |  |
| Proper shipping name  | Nitrocellulose membrane filters                  |
| Particulars in the shipper's declaration  | UN3270, Nitrocellulose membrane filters, 4.1, II |
| Danger label(s)   | 4.1  |
|        |  |
| Special provisions (SP)   | A57, A73, A122                                   |
| Excepted quantities (EQ)  | E2   |
| Limited quantities (LQ)   | 1 kg   |

## SECTION 15: Regulatory information

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

#### Relevant provisions of the European Union (EU)

##### Seveso Directive

| 2012/18/EU (Seveso III) |                                       |   |       |
|-------------------------|---------------------------------------|---|-------|
| No                      | Dangerous substance/hazard categories | Qualifying quantity (tonnes) for the application of lower and upper-tier requirements | Notes |
|                         | not assigned                          |   |       |

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### Deco-Paint Directive

|             |     |
|-------------|-----|
| VOC content | 0 % |
|-------------|-----|

### Industrial Emissions Directive (IED)

|             |     |
|-------------|-----|
| VOC content | 0 % |
|-------------|-----|

### Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

### Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

### Water Framework Directive (WFD)

none of the ingredients are listed

### Regulation on the marketing and use of explosives precursors

none of the ingredients are listed

### Regulation on drug precursors

none of the ingredients are listed

### Regulation on substances that deplete the ozone layer (ODS)

none of the ingredients are listed

### Regulation concerning the export and import of hazardous chemicals (PIC)

none of the ingredients are listed

### Regulation on persistent organic pollutants (POP)

none of the ingredients are listed

### National regulations(GB)

#### List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list

none of the ingredients are listed

#### Restrictions according to GB REACH, Annex 17

none of the ingredients are listed

### Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

### National inventories

| Country | Inventory  | Status                         |
|---------|------------|--------------------------------|
| AU      | AIIC       | all ingredients are listed     |
| CA      | DSL        | all ingredients are listed     |
| CN      | IECSC      | all ingredients are listed     |
| EU      | ECSI       | not all ingredients are listed |
| EU      | REACH Reg. | not all ingredients are listed |
| JP      | CSCL-ENCS  | all ingredients are listed     |

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| Country | Inventory | Status                                 |
|---------|-----------|--|
| KR      | KECI      | all ingredients are listed             |
| MX      | INSQ      | all ingredients are listed             |
| NZ      | NZIoC     | all ingredients are listed             |
| PH      | PICCS     | all ingredients are listed             |
| TR      | CICR      | not all ingredients are listed         |
| TW      | TCSI      | all ingredients are listed             |
| US      | TSCA      | all ingredients are listed as "ACTIVE" |

### Legend

|            |   |
|------------|---|
| AIIC       | Australian Inventory of Industrial Chemicals                            |
| CICR       | Chemical Inventory and Control Regulation                               |
| CSCL-ENCS  | List of Existing and New Chemical Substances (CSCL-ENCS)                |
| DSL        | Domestic Substances List (DSL)  |
| ECSI       | EC Substance Inventory (EINECS, ELINCS, NLP)                            |
| IECSC      | Inventory of Existing Chemical Substances Produced or Imported in China |
| INSQ       | National Inventory of Chemical Substances                               |
| KECI       | Korea Existing Chemicals Inventory                                      |
| NZIoC      | New Zealand Inventory of Chemicals                                      |
| PICCS      | Philippine Inventory of Chemicals and Chemical Substances (PICCS)       |
| REACH Reg. | REACH registered substances   |
| TCSI       | Taiwan Chemical Substance Inventory                                     |
| TSCA       | Toxic Substance Control Act   |

## 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information

### Abbreviations and acronyms

| Abbr.      | Descriptions of used abbreviations  |
|------------|---|
| ADR        | Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)                         |
| BCF        | Bioconcentration factor   |
| BOD        | Biochemical Oxygen Demand   |
| CAS        | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)  |
| Ceiling-C  | Ceiling value   |
| COD        | Chemical oxygen demand  |
| DGR        | Dangerous Goods Regulations (see IATA/DGR)  |
| DNEL       | Derived No-Effect Level   |
| EC No      | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)     |
| EH40/2005  | EH40/2005 Workplace exposure limits ( <a href="http://www.nationalarchives.gov.uk/doc/open-government-licence/">http://www.nationalarchives.gov.uk/doc/open-government-licence/</a> ) |
| EINECS     | European Inventory of Existing Commercial Chemical Substances   |
| ELINCS     | European List of Notified Chemical Substances   |
| EmS        | Emergency Schedule  |
| Flam. Sol. | Flammable solid   |

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| Abbr.     | Descriptions of used abbreviations  |
|-----------|---|
| GB REACH  | The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)  |
| GHS       | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations   |
| IATA      | International Air Transport Association   |
| IATA/DGR  | Dangerous Goods Regulations (DGR) for the air transport (IATA)  |
| ICAO      | International Civil Aviation Organization   |
| ICAO-TI   | Technical instructions for the safe transport of dangerous goods by air   |
| IMDG      | International Maritime Dangerous Goods Code   |
| IMDG-Code | International Maritime Dangerous Goods Code   |
| index No  | The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008  |
| LC50      | Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval                       |
| LD50      | Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval  |
| log KOW   | n-Octanol/water   |
| NLP       | No-Longer Polymer   |
| PBT       | Persistent, Bioaccumulative and Toxic   |
| PNEC      | Predicted No-Effect Concentration   |
| REACH     | Registration, Evaluation, Authorisation and Restriction of Chemicals  |
| RID       | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail) |
| STEL      | Short-term exposure limit   |
| TWA       | Time-weighted average   |
| VOC       | Volatile Organic Compounds  |
| vPvB      | Very Persistent and very Bioaccumulative  |
| WEL       | Workplace exposure limit  |

### Key literature references and sources for data

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### Classification procedure

Physical and chemical properties. The classification is based on tested mixture. Health hazards. Environmental hazards. The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text             |
|------|------------------|
| H228 | Flammable solid. |

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## **Disclaimer**

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.