

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## SCONA TPPP 2003 FB

Version: 6.1

SDB\_GB

Revision Date: 30.09.2025

Date of last issue: 07.10.2024

Print Date: 07.10.2025

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

#### 1.1 Product identifier

Trade name : SCONA TPPP 2003 FB

Product code : 000000000000126268

Substance name : 1-Propene, polymer with ethene, reaction product with 2,5-Furanedione, Ethenylbenzene and 2-Propenoic acid

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

Use of the Substance/Mixture : Compatibilizer for PP-PA blends, toughness modification of polyethylene terephthalate.

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

Company : BYK-Chemie GmbH  
Abelstrasse 45  
46483 Wesel

Telephone : +49 281 670-0

Telefax : +49 281 65735

  

Information : Regulatory Affairs

Telephone : +49 281 670-23532

Telefax : +49 281 670-23533

E-mail address : GHS.BYK@altana.com

#### 1.4 Emergency telephone

+44 1235 239670

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Skin sensitization, Category 1 H317: May cause an allergic skin reaction.

#### 2.2 Label elements

##### Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H317 May cause an allergic skin reaction.

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Precautionary Statements : **Prevention:**  
P261 Avoid breathing dust.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves.  
**Response:**  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

### Hazardous ingredients which must be listed on the label:

- 108-31-6 maleic anhydride

### 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.

Ecological 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.

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.

Contaminated surfaces will be extremely slippery.

Take precautionary measures against static discharges.

Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Use adequate ventilation and/or engineering controls in high temperature processing to prevent exposure to vapors.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Substance name : 1-Propene, polymer with ethene, reaction product with 2,5-Furandione, Ethenylbenzene and 2-Propenoic acid

Chemical nature : Carboxylated Polypropylene (Maleic anhydride)

### Components

| Chemical name    | CAS-No.<br>EC-No. | Concentration (%)<br>w/w) | M-Factor, SCL, ATE     |
|------------------|-------------------|---------------------------|------------------------|
| maleic anhydride | 108-31-6          | >= 0,001 - < 0,1          | specific concentration |

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|  |           |  |                                                                                                                                                           |
|--|-----------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | 203-571-6 |  | limit<br>Skin Sens. 1A; H317<br>>= 0,001 %<br>Skin Sens. 1A; H317<br>>= 0,001 %<br><br>Acute toxicity estimate<br><br>Acute oral toxicity:<br>1.090 mg/kg |
|--|-----------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------|

### SECTION 4: First aid measures

#### 4.1 Description of first-aid measures

- General advice : Move out of dangerous area.  
Show this material safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : If on skin, rinse well with water.
- In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

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

- Symptoms : No information available.
- Risks : May cause an allergic skin reaction.

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

- Treatment : No information available.

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media : Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical  
  
Water

Unsuitable extinguishing media : High volume water jet

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

Specific hazards during fire fighting : Hazardous decomposition products formed under fire conditions.  
  
Hazardous combustion products : Carbon oxides

#### 5.3 Advice for firefighters

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.  
  
Further information : Standard procedure for chemical fires.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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### SECTION 6: Accidental release measures

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

Personal precautions : Use non-slip safety shoes in areas where spills or leaks can occur.  
Use personal protective equipment.  
Avoid dust formation.  
Avoid breathing dust.

#### 6.2 Environmental precautions

Environmental precautions : If the product contaminates rivers and lakes or drains inform respective authorities.  
  
Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.

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

Methods for cleaning up : Keep in suitable, closed containers for disposal.

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### 6.4 Reference to other sections

For disposal considerations see section 13., For personal protection see section 8.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Advice on safe handling : Avoid formation of respirable particles.  
Do not breathe vapors/dust.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Dispose of rinse water in accordance with local and national regulations.  
Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Advice on protection against fire and explosion : Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.
- Hygiene measures : Wash hands before breaks and at the end of workday.

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

- Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply with the technological safety standards.
- Further information on storage conditions : Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture.
- Recommended storage temperature : < 40 °C
- Further information on storage stability : Keep in a dry place.  
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

| Components                                                   | CAS-No.  | Value type (Form of exposure) | Control parameters  | Basis   |
|--------------------------------------------------------------|----------|-------------------------------|---------------------|---------|
| maleic anhydride                                             | 108-31-6 | TWA                           | 1 mg/m <sup>3</sup> | GB EH40 |
| Further information: Capable of causing occupational asthma. |          |                               |                     |         |
|                                                              |          | STEL                          | 3 mg/m <sup>3</sup> | GB EH40 |

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Further information: Capable of causing occupational asthma.

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

| Substance name   | End Use | Routes of exposure | Potential health effects                            | Value                   |
|------------------|---------|--------------------|-----------------------------------------------------|-------------------------|
| maleic anhydride | Workers | Inhalation         | Long-term systemic effects, Long-term local effects | 0,081 mg/m <sup>3</sup> |
|                  | Workers | Inhalation         | Systemic effects, Acute effects, Local effects      | 0,2 mg/m <sup>3</sup>   |

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

| Substance name   | Environmental Compartment | Value        |
|------------------|---------------------------|--------------|
| maleic anhydride | Fresh water               | 0,038 mg/l   |
|                  | Sea water                 | 0,0038 mg/l  |
|                  | Intermittent releases     | 0,379 mg/l   |
|                  | Soil                      | 0,037 mg/kg  |
|                  | Fresh water sediment      | 0,296 mg/kg  |
|                  | Sea sediment              | 0,0296 mg/kg |
|                  | Sewage treatment plant    | 44,6 mg/l    |

## 8.2 Exposure controls

### Personal protective equipment

Eye/face protection : Eye wash bottle with pure water  
Tightly fitting safety goggles

Hand protection  
Material : Protective gloves

Remarks : When handling hot material, use heat resistant gloves.  
The suitability for a specific workplace should be discussed  
with the producers of the protective gloves.

Skin and body protection : Dust impervious protective suit  
Choose body protection according to the amount and  
concentration of the dangerous substance at the work place.

Respiratory protection : In the case of respirable dust, use self-contained breathing  
apparatus.

### Environmental exposure controls

General advice : If the product contaminates rivers and lakes or drains inform  
respective authorities.  
Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : granular

Color : light pink

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|                                                  |   |                                                 |
|--------------------------------------------------|---|-------------------------------------------------|
| Odor                                             | : | characteristic                                  |
| Odor Threshold                                   | : | No data available                               |
| Melting point/ range                             | : | 137 °C<br>Method: DIN 53461                     |
| Initial boiling point                            | : | Not applicable                                  |
| Upper explosion limit / Upper flammability limit | : | Not applicable                                  |
| Lower explosion limit / Lower flammability limit | : | Not applicable                                  |
| Flash point                                      | : | Not applicable                                  |
| Autoignition temperature                         | : | Not applicable                                  |
| Decomposition temperature                        | : | > 350 °C                                        |
| pH                                               | : | insoluble                                       |
| Viscosity                                        |   |                                                 |
| Viscosity, dynamic                               | : | Not applicable                                  |
| Viscosity, kinematic                             | : | Not applicable                                  |
| Solubility(ies)                                  |   |                                                 |
| Water solubility                                 | : | insoluble                                       |
| Solubility in other solvents                     | : | No data available                               |
| Partition coefficient: n-octanol/water           | : | No data available                               |
| Vapor pressure                                   | : | Not applicable                                  |
| Relative density                                 | : | No data available                               |
| Density                                          | : | ca. 0,90 g/cm <sup>3</sup><br>Method: DIN 53479 |
| Bulk density                                     | : | 0,45 - 0,55 g/cm <sup>3</sup> Method: DIN 53466 |
| Relative vapor density                           | : | Not applicable                                  |

### 9.2 Other information

No data available

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### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

No decomposition if stored and applied as directed.

#### 10.2 Chemical stability

No decomposition if stored and applied as directed.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions : Dust may form explosive mixture in air.

No decomposition if stored and applied as directed.

#### 10.4 Conditions to avoid

Conditions to avoid : No data available

#### 10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

#### 10.6 Hazardous decomposition products

Stable under recommended storage conditions.

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### SECTION 11: Toxicological information

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

##### Acute toxicity

Not classified due to lack of data.

##### Product:

Acute oral toxicity : Remarks: No data available

##### Components:

##### maleic anhydride:

Acute oral toxicity : LD50 (Rat, male and female): 1.090 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rabbit, female): 2.620 mg/kg  
GLP: No information available.

##### Skin corrosion/irritation

Not classified due to lack of data.

##### Product:

Remarks : May cause skin irritation and/or dermatitis.



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### Components:

#### maleic anhydride:

|         |                             |
|---------|-----------------------------|
| Species | : Rabbit                    |
| Method  | : No information available. |
| Result  | : Corrosive to skin         |
| GLP     | : no                        |

#### Serious eye damage/eye irritation

Not classified due to lack of data.

### Product:

|         |                                                                        |
|---------|------------------------------------------------------------------------|
| Remarks | : Product dust may be irritating to eyes, skin and respiratory system. |
|---------|------------------------------------------------------------------------|

### Components:

#### maleic anhydride:

|         |                     |
|---------|---------------------|
| Species | : Rabbit            |
| Result  | : Corrosive to eyes |
| GLP     | : yes               |

#### Respiratory or skin sensitization

##### Skin sensitization

May cause an allergic skin reaction.

##### Respiratory sensitization

Not classified due to lack of data.

### Product:

|         |                         |
|---------|-------------------------|
| Remarks | : Causes sensitization. |
|---------|-------------------------|

### Components:

#### maleic anhydride:

|                    |                           |
|--------------------|---------------------------|
| Test Type          | : Buehler Test            |
| Routes of exposure | : Skin contact            |
| Species            | : Guinea pig              |
| Method             | : OECD Test Guideline 406 |
| Result             | : Causes sensitization.   |
| GLP                | : yes                     |

#### Germ cell mutagenicity

Not classified due to lack of data.

#### Carcinogenicity

Not classified due to lack of data.

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### Reproductive toxicity

Not classified due to lack of data.

### STOT-single exposure

Not classified due to lack of data.

### STOT-repeated exposure

Not classified due to lack of data.

### Repeated dose toxicity

#### Product:

Remarks : No data available

### Aspiration toxicity

Not classified due to lack of data.

## 11.2 Information on other hazards

### Endocrine disrupting properties

#### Product:

Assessment : 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.

### Further information

#### Product:

Remarks : No data available

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

#### Components:

##### **maleic anhydride:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 75 mg/l  
Exposure time: 96 h  
Test Type: static test  
GLP: no

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Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 42,81 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata): 74,35 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 10 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
GLP: no

### 12.2 Persistence and degradability

#### Product:

Biodegradability : Remarks: The polymer is too large to be bioavailable.

#### Components:

##### **maleic anhydride:**

Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301B  
GLP: yes

### 12.3 Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: Does not significantly accumulate in organisms.

#### Components:

##### **maleic anhydride:**

Partition coefficient: n-octanol/water : log Pow: -2,61 (19,8 °C)  
pH: 4 - 9  
Method: OECD Test Guideline 107  
GLP: yes

### 12.4 Mobility in soil

#### Product:

Mobility : Remarks: The product is insoluble and floats on water.

#### Components:

##### **maleic anhydride:**

Distribution among environmental compartments : Koc: 42, log Koc: 1,63

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### 12.5 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.

### 12.6 Endocrine disrupting properties

**Product:**

Assessment : 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.

### 12.7 Other adverse effects

**Product:**

Additional ecological information : No data available

---

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

---

## SECTION 14: Transport information

### 14.1 UN number or ID 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

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**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

### 14.3 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 Maritime transport in bulk according to IMO instruments

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:  
Number on list 75: If you intend to use this product as tattoo ink, please contact your vendor.  
  
Number on list: 78:  
Polymers of propylene or of other olefins, in primary forms

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synthetic polymer microparticles  
(SPM) content: 90 - 100%

The synthetic polymer microparticles  
supplied is subject to conditions laid  
down by entry 78 of Annex XVII to  
Regulation (EC) No 1907/2006 of  
the European Parliament and of the  
Council

REACH - List of substances subject to authorisation : Not applicable  
(Annex XIV)

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

### 15.2 Chemical Safety Assessment

Not applicable

## SECTION 16: Other information

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

EUH071 : Corrosive to the respiratory tract.

### Full text of other abbreviations

GB EH40 : UK. EH40 WEL - Workplace Exposure Limits  
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; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the  
Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation;  
Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -  
Standard of the German Institute for Standardization; DSL - Domestic Substances List (Canada);  
ECHA - European Chemicals Agency; EC-Number - European Community number; ECx -  
Concentration associated with x% response; ELx - Loading rate associated with x% response;  
EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -  
Concentration associated with x% growth rate response; GHS - Globally Harmonized System;  
GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA -  
International Air Transport Association; IBC - International Code for the Construction and  
Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory  
concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing  
Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -  
International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -  
International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50

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- Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization 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; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

Skin Sens. 1

H317

#### Classification procedure:

Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance 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.

GB / EN