

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## DISPERBYK-2023

Version 3.0

SDB\_LI

Revision Date: 14.02.2023

Date of last issue: 04.11.2020

Print Date 16.05.2025

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

#### 1.1 Product identifier

Trade name : DISPERBYK-2023

UFI : XP62-70V2-V00R-8WG8

Product code : 000000000000121879

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

Use of the Sub-  
stance/Mixture : Wetting & Dispersing Additive

#### 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 number

Europe +44 1235 239670  
Middle East/Africa +44 1235 239671  
Americas +1 215 207 0061  
East/South East Asia +65 3158 1074  
(Local India: 000 800 100 7479)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

|                                                                                      |                                           |
|--------------------------------------------------------------------------------------|-------------------------------------------|
| Flammable liquids, Category 2                                                        | H225: Highly flammable liquid and vapour. |
| Eye irritation, Category 2                                                           | H319: Causes serious eye irritation.      |
| Specific target organ toxicity - single exposure, Category 3, Central nervous system | H336: May cause drowsiness or dizziness.  |

#### 2.2 Label elements

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

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|                                |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hazard pictograms              | : |                                                                                                                                                                                                                                                                                                                                                                                              |
| Signal word                    | : | Danger                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Hazard statements              | : | H225 Highly flammable liquid and vapour.<br>H319 Causes serious eye irritation.<br>H336 May cause drowsiness or dizziness.                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Supplemental Hazard Statements | : | EUH066 Repeated exposure may cause skin dryness or cracking.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Precautionary statements       | : | <b>Prevention:</b><br>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br>P233 Keep container tightly closed.<br>P261 Avoid breathing mist or vapours.<br>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.<br><b>Response:</b><br>P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.<br>P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. |

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

- 141-78-6 ethyl acetate

### 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.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Solution of a copolymer with pigment affinic groups

#### Components

| Chemical name | CAS-No.<br>EC-No.<br>Index-No. | Classification | Concentration<br>(% w/w) |
|---------------|--------------------------------|----------------|--------------------------|
|               |                                |                |                          |

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|               | Registration number                       |                                                                                                   |              |
|---------------|-------------------------------------------|---------------------------------------------------------------------------------------------------|--------------|
| ethyl acetate | 141-78-6<br>205-500-4<br>01-2119475103-46 | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319<br>STOT SE 3; H336<br>(Central nervous system)<br>EUH066 | >= 30 - < 50 |

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : Consult a physician after significant exposure.  
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
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 : No information available.

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

- Treatment : No information available.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

- Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

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Unsuitable extinguishing media : High volume water jet

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

Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Carbon oxides  
Nitrogen oxides (NOx)

### 5.3 Advice for firefighters

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

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
For safety reasons in case of fire, cans should be stored separately in closed containments.  
Use a water spray to cool fully closed containers.

## SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

### 6.2 Environmental precautions

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

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

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

### 6.4 Reference to other sections

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

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

- Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapours/dust.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Take precautionary measures against static discharges.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Container may be opened only under exhaust ventilation hood.  
Open drum carefully as content may be under pressure.  
Dispose of rinse water in accordance with local and national regulations.
- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.  
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.
- Hygiene measures : When using do not eat or drink. When using do not smoke.  
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 : No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.
- 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

| Components                      | CAS-No.  | Value type (Form of exposure) | Control parameters                 | Basis       |
|---------------------------------|----------|-------------------------------|------------------------------------|-------------|
| ethyl acetate                   | 141-78-6 | STEL                          | 400 ppm<br>1.468 mg/m <sup>3</sup> | 2017/164/EU |
| Further information: Indicative |          |                               |                                    |             |
|                                 |          |                               | 200 ppm<br>734 mg/m <sup>3</sup>   | 2017/164/EU |
| Further information: Indicative |          |                               |                                    |             |

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

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| Substance name | End Use   | Exposure routes | Potential health effects                            | Value                             |
|----------------|-----------|-----------------|-----------------------------------------------------|-----------------------------------|
| ethyl acetate  | Workers   | Inhalation      | Acute systemic effects, Acute local effects         | 1468 mg/m <sup>3</sup><br>400 ppm |
|                | Workers   | Inhalation      | Long-term systemic effects, Long-term local effects | 734 mg/m <sup>3</sup><br>200 ppm  |
|                | Workers   | Skin contact    | Long-term systemic effects                          | 63 mg/kg                          |
|                | Consumers | Inhalation      | Acute systemic effects, Acute local effects         | 734 mg/m <sup>3</sup><br>200 ppm  |
|                | Consumers | Inhalation      | Long-term systemic effects, Long-term local effects | 367 mg/m <sup>3</sup>             |
|                | Consumers | Skin contact    | Long-term systemic effects                          | 37 mg/kg                          |
|                | Consumers | Ingestion       | Long-term systemic effects                          | 4,5 mg/kg                         |

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

| Substance name | Environmental Compartment | Value       |
|----------------|---------------------------|-------------|
| ethyl acetate  | Fresh water               | 0,26 mg/l   |
|                | Marine water              | 0,026 mg/l  |
|                | Fresh water sediment      | 0,34 mg/kg  |
|                | Marine sediment           | 0,034 mg/kg |
|                | Soil                      | 0,22 mg/kg  |

## 8.2 Exposure controls

### Personal protective equipment

Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.

Hand protection  
Material : butyl-rubber  
Break through time : 120 min

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

### Environmental exposure controls

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

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### SECTION 9: Physical and chemical properties

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

|                                                  |   |                                                                                             |
|--------------------------------------------------|---|---------------------------------------------------------------------------------------------|
| Physical state                                   | : | liquid                                                                                      |
| Colour                                           | : | amber                                                                                       |
| Odour                                            | : | characteristic                                                                              |
| Odour Threshold                                  | : | No data available                                                                           |
| Melting point/range                              | : | < 5 °C<br>Method: derived                                                                   |
| Initial boiling point                            | : | 77 °C<br>Method: derived                                                                    |
| Upper explosion limit / Upper flammability limit | : | No data available                                                                           |
| Lower explosion limit / Lower flammability limit | : | No data available                                                                           |
| Flash point                                      | : | -4 °C<br>Method: 48 (Abel-Pensky)                                                           |
| Auto-ignition temperature                        | : | > 200 °C<br>Method: M0062 (Analytics Wesel)                                                 |
| Decomposition temperature                        | : | No data available                                                                           |
| pH                                               | : | 6 (20 °C)<br>Concentration: 1 %<br>Method: Universal pH-value indicator                     |
| Viscosity                                        |   |                                                                                             |
| Viscosity, dynamic                               | : | 853 mPa.s (20 °C)<br>Method: P/K 20°C                                                       |
| Solubility(ies)                                  |   |                                                                                             |
| Water solubility                                 | : | emulsifiable                                                                                |
| Solubility in other solvents                     | : | No data available                                                                           |
| Partition coefficient: n-octanol/water           | : | No data available                                                                           |
| Vapour pressure                                  | : | 98 hPa (20 °C)<br>Method: derived                                                           |
| Relative density                                 | : | No data available                                                                           |
| Density                                          | : | 0,988 g/cm <sup>3</sup> (20 °C, 1.013 hPa)<br>Method: 4 deaerated (20°C oscillating U-tube) |
| Bulk density                                     | : | Not applicable                                                                              |
| Relative vapour density                          | : | No data available                                                                           |

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### 9.2 Other information

Flammability (liquids) : Sustains combustion

Evaporation rate : 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 : No decomposition if stored and applied as directed.

Vapours may form explosive mixture with air.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

### 10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents  
Strong acids  
Strong bases  
Alkali metals

### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

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## SECTION 11: Toxicological information

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

#### Acute toxicity

##### Product:

Acute oral toxicity : Remarks: No data available

#### Serious eye damage/eye irritation

##### Product:

Remarks : Causes serious eye irritation.

#### Respiratory or skin sensitisation

##### Product:

Remarks : No data available



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### Germ cell mutagenicity

**Product:**

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

### Carcinogenicity

**Product:**

Remarks : No data available

### Reproductive toxicity

**Product:**

Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

### STOT - single exposure

**Product:**

Remarks : No data available

### STOT - repeated exposure

**Product:**

Remarks : No data available

### Repeated dose toxicity

**Product:**

Remarks : No data available

### Aspiration toxicity

**Product:**

No data available

## 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.

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### Further information

#### Product:

Remarks : Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.  
Concentrations substantially above the TLV value may cause narcotic effects.  
Solvents may degrease the skin.

## 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

### 12.2 Persistence and degradability

#### Product:

Biodegradability : Remarks: No data available

### 12.3 Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: No data available

### 12.4 Mobility in soil

No data available

### 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:

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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.  
Do not burn, or use a cutting torch on, the empty drum.

### SECTION 14: Transport information

#### 14.1 UN number or ID number

ADR : UN 1173  
RID : UN 1173  
IMDG : UN 1173  
IATA : UN 1173

#### 14.2 UN proper shipping name

ADR : ETHYL ACETATE, SOLUTION  
RID : ETHYL ACETATE, SOLUTION  
IMDG : ETHYL ACETATE, SOLUTION  
IATA : Ethyl acetate, solution

#### 14.3 Transport hazard class(es)

ADR : 3  
RID : 3  
IMDG : 3  
IATA : 3

#### 14.4 Packing group

**ADR**  
Packing group : II  
Classification Code : F1  
Hazard Identification Number : 33  
Labels : 3  
Tunnel restriction code : D/E

**RID**  
Packing group : II  
Classification Code : F1

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Hazard Identification Number : 33  
Labels : 3

### IMDG

Packing group : II  
Labels : 3  
EmS Code : F-E, S-D  
Remarks : IMDG Code segregation group - none

### IATA (Cargo)

Packing instruction (cargo aircraft) : 364  
Packing group : II  
Labels : Flammable Liquids

### IATA (Passenger)

Packing instruction (passenger aircraft) : 353  
Packing instruction (LQ) : Y341  
Packing group : II  
Labels : Flammable Liquids

## 14.5 Environmental hazards

### ADR

Environmentally hazardous : no

### RID

Environmentally hazardous : no

### IMDG

Marine pollutant : no

## 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## 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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

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

Fire Hazard Class : A I: Flash point less than 21 °C, at 15 °C not miscible in water

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving P5c FLAMMABLE LIQUIDS

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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.

### Full text of H-Statements

|        |                                                         |
|--------|---------------------------------------------------------|
| H225   | : Highly flammable liquid and vapour.                   |
| H319   | : Causes serious eye irritation.                        |
| H336   | : May cause drowsiness or dizziness.                    |
| EUH066 | : Repeated exposure may cause skin dryness or cracking. |

### Full text of other abbreviations

|                    |                                                                                                                        |
|--------------------|------------------------------------------------------------------------------------------------------------------------|
| Eye Irrit.         | : Eye irritation                                                                                                       |
| Flam. Liq.         | : Flammable liquids                                                                                                    |
| STOT SE            | : Specific target organ toxicity - single exposure                                                                     |
| 2017/164/EU        | : Europe. Commission Directive 2017/164/EU establishing a fourth list of indicative occupational exposure limit values |
| 2017/164/EU / STEL | : Short term exposure limit                                                                                            |
| 2017/164/EU /      | : Limit Value - eight hours                                                                                            |

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 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 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 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 Organisation for Standardization; 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 - 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, 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 -

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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:

|              |      |
|--------------|------|
| Flam. Liq. 2 | H225 |
| Eye Irrit. 2 | H319 |
| STOT SE 3    | H336 |

#### Classification procedure:

|                                     |
|-------------------------------------|
| Based on product data or assessment |
| Calculation method                  |
| 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.

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