

# SAFETY DATA SHEET

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



## BYK-MAX AS 4170

Version: 8.0  
SDB\_REG\_EU

Revision Date: 10.10.2025

Date of last issue: 24.01.2025  
Print Date: 14.10.2025

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

#### 1.1 Product identifier

Trade name : BYK-MAX AS 4170  
Product code : 000000000000131508

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

Use of the Substance/Mixture : Anti-Static Agent

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

Company : BYK Netherlands BV  
Danzigweg 23  
7418 EN Deventer  
Telephone : +31 881 220 300  
  
Information : Regulatory Affairs  
Telephone : +49 281 670-23532  
Telefax : +49 281 670-23533  
E-mail address : GHS.BYK@altana.com

#### 1.4 Emergency telephone

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)

|                                                |                                                                                  |
|------------------------------------------------|----------------------------------------------------------------------------------|
| Skin corrosion, Sub-category 1C                | H314: Causes severe skin burns and eye damage.                                   |
| Serious eye damage, Category 1                 | H318: Causes serious eye damage.                                                 |
| Reproductive toxicity, Category 2              | H361fd: Suspected of damaging fertility. Suspected of damaging the unborn child. |
| Short-term (acute) aquatic hazard, Category 1  | H400: Very toxic to aquatic life.                                                |
| Long-term (chronic) aquatic hazard, Category 2 | H411: Toxic to aquatic life with long lasting effects.                           |

#### 2.2 Label elements

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

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|                          |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hazard pictograms        | : |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Signal Word              | : | Danger                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Hazard Statements        | : | <div>H314 Causes severe skin burns and eye damage.</div> <div>H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.</div> <div>H410 Very toxic to aquatic life with long lasting effects.</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Precautionary Statements | : | <b>Prevention:</b> <div>P260 Do not breathe dust.</div> <div>P273 Avoid release to the environment.</div> <div>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.</div><br><b>Response:</b> <div>P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.</div> <div>P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.</div> <div>P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.</div> <div>P391 Collect spillage.</div> |

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

- 61791-31-9 Ethanol, 2,2'-iminobis-, N-coco alkyl derivs.

### 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

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Chemical nature : Additive concentrate

### Components

| Chemical name                                    | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number | Classification                                                                                                                                                                                                                                                        | Concentration<br>(% w/w) |
|--------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Ethanol, 2,2'-iminobis-, N-coco<br>alkyl derivs. | 61791-31-9<br>263-163-9<br>01-2119957489-17           | Acute Tox. 4; H302<br>Skin Corr. 1C; H314<br>Eye Dam. 1; H318<br>Repr. 2; H361fd<br>STOT RE 2; H373<br>(Eyes)<br>Aquatic Acute 1;<br>H400<br>Aquatic Chronic 1;<br>H410<br><br>M-Factor (Acute<br>aquatic toxicity): 100<br>M-Factor (Chronic<br>aquatic toxicity): 1 | >= 7 - < 10              |

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.  
Consult a physician.  
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 : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Continue rinsing eyes during transport to hospital.  
Remove contact lenses.  
Protect unharmed eye.

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Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.  
Do NOT induce vomiting.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.

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

Symptoms : No information available.

Risks : Causes serious eye damage.  
Suspected of damaging fertility. Suspected of damaging the unborn child.  
Causes severe burns.

### 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

Unsuitable extinguishing media : High volume water jet

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

Specific hazards during fire fighting : Fire will produce dense black smoke containing hazardous combustion products (see section 10).

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

### 5.3 Advice for firefighters

Special protective equipment for fire-fighters : 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.

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### SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.  
Avoid dust formation.  
Avoid breathing dust.

#### 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 : Keep in suitable, closed containers for disposal.

#### 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.

Advice on protection against : Avoid dust formation. Provide appropriate exhaust ventilation  
fire and explosion at places where dust is formed.

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 : Keep container tightly closed in a dry and well-ventilated  
areas and containers 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 : No decomposition if stored and applied as directed.  
storage stability

#### 7.3 Specific end use(s)

Specific use(s) : No data available

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational Exposure Limits

Contains no substances with occupational exposure limit values.

#### 8.2 Exposure controls

##### Personal protective equipment

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

Hand protection  
Material : Nitrile rubber

Remarks : 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.

##### 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 : granular  
Color : white, off-white  
Odor : No data available  
Melting point/ range : No data available  
Initial boiling point : No data available  
Flammability : Combustible Solids  
Upper explosion limit / Upper flammability limit : No data available  
Lower explosion limit / Lower flammability limit : No data available

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|                                        |   |                                                                  |
|----------------------------------------|---|------------------------------------------------------------------|
| Flash point                            | : | No data available                                                |
| Autoignition temperature               | : | No data available                                                |
| Decomposition temperature              | : | No data available                                                |
| pH                                     | : | 7 (20 °C)<br>Concentration: 1 %                                  |
| 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                         | : | No data available                                                |
| Density                                | : | 0,929 g/cm <sup>3</sup> (20 °C, 1.013 hPa)<br>Method: calculated |
| Bulk density                           | : | 490 - 550 kg/m <sup>3</sup> Method: 34 (bulk density)            |
| Relative vapor density                 | : | Not applicable                                                   |

### 9.2 Other information

No data available

## 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

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### 10.5 Incompatible materials

Materials to avoid : None known.

### 10.6 Hazardous decomposition products

Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

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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 : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

#### Skin corrosion/irritation

Causes severe burns.

#### Product:

Remarks : Extremely corrosive and destructive to tissue.

#### Serious eye damage/eye irritation

Causes serious eye damage.

#### Product:

Remarks : May cause irreversible eye damage.

#### Respiratory or skin sensitization

##### Skin sensitization

Not classified due to lack of data.

##### Respiratory sensitization

Not classified due to lack of data.

#### Product:

Remarks : No data available

#### Germ cell mutagenicity

Not classified due to lack of data.

#### Product:

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

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### Carcinogenicity

Not classified due to lack of data.

#### Product:

Remarks : No data available

### Reproductive toxicity

Suspected of damaging fertility. Suspected of damaging the unborn child.

#### Product:

Effects on fertility : Remarks: No data available

Effects on fetal development : Remarks: No data available

### STOT-single exposure

Not classified due to lack of data.

#### Product:

Remarks : No data available

### STOT-repeated exposure

Not classified due to lack of data.

#### Product:

Remarks : No data available

### Repeated dose toxicity

#### Product:

Remarks : No data available

### Aspiration toxicity

Not classified due to lack of data.

#### 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 : 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:

##### **Ethanol, 2,2'-iminobis-, N-coco alkyl derivs.:**

M-Factor (Acute aquatic toxicity) : 100

M-Factor (Chronic aquatic toxicity) : 1

### 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

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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 : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life with long lasting effects.

---

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.  
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.

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## SECTION 14: Transport information

### 14.1 UN number or ID number

ADR : UN 3259  
RID : UN 3259  
IMDG : UN 3259  
IATA : UN 3259

### 14.2 UN proper shipping name

ADR : AMINES, SOLID, CORROSIVE, N.O.S.  
(Alkylbis(2-hydroxyethyl)amine)  
RID : AMINES, SOLID, CORROSIVE, N.O.S.  
(Alkylbis(2-hydroxyethyl)amine)  
IMDG : AMINES, SOLID, CORROSIVE, N.O.S.  
(Alkylbis(2-hydroxyethyl)amine)  
IATA : Amines, solid, corrosive, n.o.s.  
(Alkylbis(2-hydroxyethyl)amine)

### 14.3 Transport hazard class(es)

ADR : 8

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**RID** : 8  
**IMDG** : 8  
**IATA** : 8

### 14.4 Packing group

#### ADR

Packing group : III  
Classification Code : C8  
Hazard Identification Number : 80  
Labels : 8  
Tunnel restriction code : E

#### RID

Packing group : III  
Classification Code : C8  
Hazard Identification Number : 80  
Labels : 8

#### IMDG

Packing group : III  
Labels : 8  
EmS Code : F-A, S-B  
Remarks : IMDG Code segregation group 18 - Alkalis

#### IATA (Cargo)

Packing instruction (cargo aircraft) : 864  
Packing instruction (LQ) : Y845  
Packing group : III  
Labels : Corrosives

#### IATA (Passenger)

Packing instruction (passenger aircraft) : 860  
Packing instruction (LQ) : Y845  
Packing group : III  
Labels : Corrosives

### 14.5 Environmental hazards

#### ADR

Environmentally hazardous : yes

#### RID

Environmentally hazardous : yes

#### IMDG

Marine pollutant : yes

### 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.

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### 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 - 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:<br>Number on list: <b>78</b> :<br>Polymers of propylene or of other olefins, in primary forms, Polymers of ethylene, in primary forms<br><b>synthetic polymer microparticles (SPM) content: 65 - 75%</b><br>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 - Candidate List of Substances of Very High Concern for Authorization (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                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. | E1 | ENVIRONMENTAL HAZARDS                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

### 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

H302 : Harmful if swallowed.

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|        |                                                                                   |
|--------|-----------------------------------------------------------------------------------|
| H314   | : Causes severe skin burns and eye damage.                                        |
| H318   | : Causes serious eye damage.                                                      |
| H361fd | : Suspected of damaging fertility. Suspected of damaging the unborn child.        |
| H373   | : May cause damage to organs through prolonged or repeated exposure if swallowed. |
| H400   | : Very toxic to aquatic life.                                                     |
| H410   | : Very toxic to aquatic life with long lasting effects.                           |

### Full text of other abbreviations

|                 |                                                      |
|-----------------|------------------------------------------------------|
| Acute Tox.      | : Acute toxicity                                     |
| Aquatic Acute   | : Short-term (acute) aquatic hazard                  |
| Aquatic Chronic | : Long-term (chronic) aquatic hazard                 |
| Eye Dam.        | : Serious eye damage                                 |
| Repr.           | : Reproductive toxicity                              |
| Skin Corr.      | : Skin corrosion                                     |
| STOT RE         | : Specific target organ toxicity - repeated exposure |

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 - 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

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### Classification of the mixture:

|                   |        |
|-------------------|--------|
| Skin Corr. 1C     | H314   |
| Eye Dam. 1        | H318   |
| Repr. 2           | H361fd |
| Aquatic Acute 1   | H400   |
| Aquatic Chronic 2 | H411   |

### Classification procedure:

|                    |
|--------------------|
| Calculation method |
| Calculation method |
| Calculation method |
| Calculation method |
| Calculation method |

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