

acc. to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU

## **UNIL SP 220**

Version number: 3.0 Revision: 09.10.2023 Replaces version of: 11.04.2022 (2)

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

#### 1.1 Product identifier

Trade name UNIL SP 220

Registration number (REACH)

Not relevant (mixture)

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

Relevant identified uses Lubricants, greases, release products

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

UNIL Deutschland GmbH Liebknechtstraße 50 70565 Stuttgart Germany

Telephone: +49 711 7868-0 Telefax: +49 711 7868-489 e-mail: info@unil.de Website: www.unil.de

e-mail (competent person) produktsicherheit@scharr.de

#### 1.4 Emergency telephone number

| Poison centre |                          |                                 |                  |
|---------------|--------------------------|---------------------------------|------------------|
| Country       | Name                     | Postal code/city                | Telephone        |
| Germany       | Giftinformation Freiburg | 79106 Freiburg im Bre-<br>isgau | +49 (0)761 19240 |

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

| Hazard class                                          | Category | Hazard class and cat-<br>egory | Hazard state-<br>ment |
|-------------------------------------------------------|----------|--------------------------------|-----------------------|
| hazardous to the aquatic environment - chronic hazard | 3        | Aquatic Chronic 3              | H412                  |

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects Spillage and fire water can cause pollution of watercourses.

#### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

- signal word not required- pictograms not required

- hazard statements

H412 Harmful to aquatic life with long lasting effects.



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- precautionary statements

P273 Avoid release to the environment.

P501 Dispose of contents/container to industrial combustion plant.

- supplemental hazard information

EUH208 Contains Amines, C12-14-tert-alkyl. May produce an allergic reaction.

#### 2.3 Other hazards

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance in a concentration of  $\geq$  0,1%.

**Endocrine disrupting properties** 

Does not contain an endocrine disruptor (EDC) in a concentration of  $\geq$  0,1%.

## **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Not relevant (mixture)

#### 3.2 Mixtures

Hazardous ingredients

| Name of substance                                                     | Identifier                                                                                 | Wt% | Classification acc. to GHS                                                                                                                                                                   | Pictograms |
|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| Amines, C12-14-tert-alkyl                                             | CAS No<br>68955-53-3<br>EC No<br>701-175-2<br>REACH Reg. No<br>01-2119456798-18-<br>xxxx   | <1  | Acute Tox. 4 / H302<br>Acute Tox. 3 / H311<br>Acute Tox. 2 / H330<br>Skin Corr. 1B / H314<br>Eye Dam. 1 / H318<br>Skin Sens. 1A / H317<br>Aquatic Acute 1 / H400<br>Aquatic Chronic 1 / H410 |            |
| C16-18-(even numbered,<br>saturated and unsatur-<br>ated)-alkylamines | CAS No<br>1213789-63-9<br>EC No<br>627-034-4<br>REACH Reg. No<br>01-2119473797-19-<br>xxxx | <1  | Acute Tox. 4 / H302<br>Skin Corr. 1B / H314<br>Eye Dam. 1 / H318<br>STOT SE 3 / H335<br>STOT RE 2 / H373<br>Asp. Tox. 1 / H304<br>Aquatic Acute 1 / H400<br>Aquatic Chronic 1 / H410         |            |

| Name of substance                                                     | Specific Conc. Limits | M-Factors                                              | ATE                                                                                                             | Exposure route                       |
|-----------------------------------------------------------------------|-----------------------|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------------------------|
| Amines, C12-14-tert-alkyl                                             | -                     | -                                                      | >500 <sup>mg</sup> / <sub>kg</sub><br>251 <sup>mg</sup> / <sub>kg</sub><br>0,5 <sup>mg</sup> / <sub>l</sub> /4h | oral<br>dermal<br>inhalation: vapour |
| C16-18-(even numbered,<br>saturated and unsatur-<br>ated)-alkylamines | -                     | M-factor<br>(acute) = 10<br>M-factor<br>(chronic) = 10 | 1.689 <sup>mg</sup> / <sub>kg</sub>                                                                             | oral                                 |

For full text of abbreviations: see SECTION 16.



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#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

#### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Self-protection of the first aider.

#### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

#### Following skin contact

Wash with plenty of soap and water.

#### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Call a physician immediately.

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

Breathing difficulties. Headache. Vertigo.

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

Subsequent observance for pneumonia and pulmonary oedema. Supervise the blood circulation.

## **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO2), Sand

Unsuitable extinguishing media

Water jet

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

Danger of bursting container.

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO2)

## 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.



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#### **SECTION 6: Accidental release measures**

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

For non-emergency personnel

Remove persons to safety. Ventilate affected area. Avoidance of ignition sources.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases. Provision of sufficient ventilation.

## 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

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

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

#### 6.4 Reference to other sections

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

#### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Recommendations

- measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

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

- Lagerklasse (storage class according to TRGS 510, 10 (combustible liquids) Germany)

#### 7.3 Specific end use(s)

See section 16 for a general overview.



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## **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits) this information is not available

## Relevant DNELs of components of the mixture

| Name of sub-<br>stance                                                     | CAS No           | End-<br>point | Threshold<br>level         | Protection<br>goal, route of<br>exposure | Used in           | Exposure time                 |
|----------------------------------------------------------------------------|------------------|---------------|----------------------------|------------------------------------------|-------------------|-------------------------------|
| Amines, C12-14-<br>tert-alkyl                                              | 68955-53-3       | DNEL          | 12,1 mg/<br>m³             | human, inhalat-<br>ory                   | worker (industry) | acute - systemic<br>effects   |
| Amines, C12-14-<br>tert-alkyl                                              | 68955-53-3       | DNEL          | 12,5 mg/<br>m³             | human, inhalat-<br>ory                   | worker (industry) | chronic - systemic<br>effects |
| Amines, C12-14-<br>tert-alkyl                                              | 68955-53-3       | DNEL          | 12,1 mg/<br>m³             | human, inhalat-<br>ory                   | worker (industry) | chronic - local ef-<br>fects  |
| C16-18-(even<br>numbered, satur-<br>ated and unsatur-<br>ated)-alkylamines | 1213789-63-<br>9 | DNEL          | 0,38 mg/<br>m <sup>3</sup> | human, inhalat-<br>ory                   | worker (industry) | chronic - systemic<br>effects |
| C16-18-(even<br>numbered, satur-<br>ated and unsatur-<br>ated)-alkylamines | 1213789-63-<br>9 | DNEL          | 1 mg/m³                    | human, inhalat-<br>ory                   | worker (industry) | chronic - local ef-<br>fects  |
| C16-18-(even<br>numbered, satur-<br>ated and unsatur-<br>ated)-alkylamines | 1213789-63-<br>9 | DNEL          | 1 mg/m³                    | human, inhalat-<br>ory                   | worker (industry) | acute - local ef-<br>fects    |

## Relevant PNECs of components of the mixture

| Name of sub-<br>stance        | CAS No     | End-<br>point | Threshold<br>level                 | Organism                   | Environmental<br>compartment    | Exposure time                   |
|-------------------------------|------------|---------------|------------------------------------|----------------------------|---------------------------------|---------------------------------|
| Amines, C12-14-<br>tert-alkyl | 68955-53-3 | PNEC          | 0,004 <sup>mg</sup> / <sub>l</sub> | aquatic organ-<br>isms     | water                           | intermittent re-<br>lease       |
| Amines, C12-14-<br>tert-alkyl | 68955-53-3 | PNEC          | 0,001 <sup>mg</sup> / <sub>l</sub> | aquatic organ-<br>isms     | freshwater                      | short-term (single<br>instance) |
| Amines, C12-14-<br>tert-alkyl | 68955-53-3 | PNEC          | 0 <sup>mg</sup> / <sub>l</sub>     | aquatic organ-<br>isms     | marine water                    | short-term (single<br>instance) |
| Amines, C12-14-<br>tert-alkyl | 68955-53-3 | PNEC          | 0,635 <sup>mg</sup> / <sub>l</sub> | aquatic organ-<br>isms     | sewage treatment<br>plant (STP) | short-term (single<br>instance) |
| Amines, C12-14-<br>tert-alkyl | 68955-53-3 | PNEC          | 2,14 <sup>mg</sup> / <sub>kg</sub> | aquatic organ-<br>isms     | freshwater sedi-<br>ment        | short-term (single<br>instance) |
| Amines, C12-14-<br>tert-alkyl | 68955-53-3 | PNEC          | 0,214 <sup>mg</sup> /<br>kg        | aquatic organ-<br>isms     | marine sediment                 | short-term (single<br>instance) |
| Amines, C12-14-<br>tert-alkyl | 68955-53-3 | PNEC          | 0,428 <sup>mg</sup> /<br>kg        | terrestrial organ-<br>isms | soil                            | short-term (single<br>instance) |



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#### Relevant PNECs of components of the mixture

| Name of sub-<br>stance                                                     | CAS No           | End-<br>point | Threshold<br>level                 | Organism                   | Environmental<br>compartment    | Exposure time                   |
|----------------------------------------------------------------------------|------------------|---------------|------------------------------------|----------------------------|---------------------------------|---------------------------------|
| C16-18-(even<br>numbered, satur-<br>ated and unsatur-<br>ated)-alkylamines | 1213789-63-<br>9 | PNEC          | 0,26 <sup>µg</sup> / <sub>l</sub>  | aquatic organ-<br>isms     | freshwater                      | short-term (single<br>instance) |
| C16-18-(even<br>numbered, satur-<br>ated and unsatur-<br>ated)-alkylamines | 1213789-63-<br>9 | PNEC          | 0,026 <sup>µg</sup> / <sub>I</sub> | aquatic organ-<br>isms     | marine water                    | short-term (single<br>instance) |
| C16-18-(even<br>numbered, satur-<br>ated and unsatur-<br>ated)-alkylamines | 1213789-63-<br>9 | PNEC          | 550 <sup>µg</sup> / <sub>l</sub>   | aquatic organ-<br>isms     | sewage treatment<br>plant (STP) | short-term (single<br>instance) |
| C16-18-(even<br>numbered, satur-<br>ated and unsatur-<br>ated)-alkylamines | 1213789-63-<br>9 | PNEC          | 3,76 <sup>mg</sup> / <sub>kg</sub> | aquatic organ-<br>isms     | freshwater sedi-<br>ment        | short-term (single<br>instance) |
| C16-18-(even<br>numbered, satur-<br>ated and unsatur-<br>ated)-alkylamines | 1213789-63-<br>9 | PNEC          | 0,376 <sup>mg</sup> /<br>kg        | aquatic organ-<br>isms     | marine sediment                 | short-term (single<br>instance) |
| C16-18-(even<br>numbered, satur-<br>ated and unsatur-<br>ated)-alkylamines | 1213789-63-<br>9 | PNEC          | 10 <sup>mg</sup> / <sub>kg</sub>   | terrestrial organ-<br>isms | soil                            | short-term (single<br>instance) |

## 8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- type of material

PE: polyethylene, CR: chloroprene (chlorobutadiene) rubber, IIR: isobutene-isoprene (butyl) rubber

- material thickness > 0,35 mm

- breakthrough times of the glove material 0,4 mm

>120 minutes (permeation: level 4)

- other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.



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#### Respiratory protection

[In case of inadequate ventilation] wear respiratory protection. Combination filtering device (EN 141). Type: A (against organic gases and vapours with a boiling point of > 65 °C, colour code: Brown).

## Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

## **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

| Physical state                                           | liquid                                                    |
|----------------------------------------------------------|-----------------------------------------------------------|
| Colour                                                   | yellow                                                    |
| Odour                                                    | characteristic                                            |
| Melting point/freezing point                             | <-10 °C                                                   |
| Boiling point or initial boiling point and boiling range | not determined                                            |
| Evaporation rate                                         | not determined                                            |
| Flammability                                             | this material is combustible, but will not ignite readily |
| Lower and upper explosion limit                          | 0,6 vol% - 6,5 vol%                                       |
| Flash point                                              | >200 °C                                                   |
| Auto-ignition temperature                                | >250 °C                                                   |
| pH (value)                                               | not determined                                            |
| Kinematic viscosity                                      | 220 <sup>mm²</sup> / <sub>s</sub> at 40 °C                |
| Solubility(ies)                                          | not determined                                            |

#### Partition coefficient

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

| Vapour pressure | not determined |
|-----------------|----------------|
|-----------------|----------------|

## Density and/or relative density

| Density | 0,896 <sup>g</sup> / <sub>cm³</sub> at 15 °C |
|---------|----------------------------------------------|
|---------|----------------------------------------------|



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| Particle characteristics                           | not relevant (liquid)                                                |  |  |  |  |
|----------------------------------------------------|----------------------------------------------------------------------|--|--|--|--|
| Other information                                  |                                                                      |  |  |  |  |
| Information with regard to physical hazard classes | hazard classes acc. to GHS (physical hazards): not relevant          |  |  |  |  |
| Other safety characteristics                       |                                                                      |  |  |  |  |
| Temperature class (EU, acc. to ATEX)               | T3 (maximum permissible surface temperature on the equipment: 200°C) |  |  |  |  |

## **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

9.2

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

## 10.2 Chemical stability

See below "Conditions to avoid".

#### 10.3 Possibility of hazardous reactions

In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture.

#### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

#### 10.5 Incompatible materials

Oxidisers

## 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

## **SECTION 11: Toxicological information**

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

Test data are not available for the complete mixture.

Classification procedure

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

#### Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4: May be harmful if inhaled.



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## Acute toxicity estimate (ATE) of components of the mixture

| Name of substance                                                  | CAS No       | Exposure route     | ATE                                  |
|--------------------------------------------------------------------|--------------|--------------------|--------------------------------------|
| Amines, C12-14-tert-alkyl                                          | 68955-53-3   | oral               | >500 <sup>mg</sup> / <sub>kg</sub>   |
| Amines, C12-14-tert-alkyl                                          | 68955-53-3   | dermal             | 251 <sup>mg</sup> / <sub>kg</sub>    |
| Amines, C12-14-tert-alkyl                                          | 68955-53-3   | inhalation: vapour | 0,5 <sup>mg</sup> / <sub>l</sub> /4h |
| C16-18-(even numbered, saturated and unsat-<br>urated)-alkylamines | 1213789-63-9 | oral               | 1.689 <sup>mg</sup> / <sub>kg</sub>  |

## Acute toxicity of components of the mixture

| Name of substance                                             | CAS No       | Exposure<br>route | Endpoint | Value                                | Species |
|---------------------------------------------------------------|--------------|-------------------|----------|--------------------------------------|---------|
| Amines, C12-14-tert-alkyl                                     | 68955-53-3   | oral              | LD50     | >500 <sup>mg</sup> / <sub>kg</sub>   | rat     |
| Amines, C12-14-tert-alkyl                                     | 68955-53-3   | dermal            | LD50     | 251 <sup>mg</sup> / <sub>kg</sub>    | rat     |
| C16-18-(even numbered, saturated and unsaturated)-alkylamines | 1213789-63-9 | oral              | LD50     | 1.689 <sup>mg</sup> / <sub>kg</sub>  | rat     |
| C16-18-(even numbered, saturated and unsaturated)-alkylamines | 1213789-63-9 | dermal            | LD50     | >2.000 <sup>mg</sup> / <sub>kg</sub> | rat     |

#### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

## Serious eye damage/eye irritation

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

#### Respiratory or skin sensitisation

Contains Amines, C12-14-tert-alkyl. May produce an allergic reaction.

#### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

#### Carcinogenicity

Shall not be classified as carcinogenic.

## Reproductive toxicity

Shall not be classified as a reproductive toxicant.

## Specific target organ toxicity - single exposure

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

#### Specific target organ toxicity - repeated exposure

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

#### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

#### 11.2 Information on other hazards

There is no additional information.



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## **SECTION 12: Ecological information**

#### 12.1 Toxicity

Acc. to 1272/2008/EC: Harmful to aquatic life with long lasting effects. Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV): WGK 2, obviously hazardous to water (Germany)

#### Aquatic toxicity (acute) of components of the mixture CAS No Exposure time Name of substance **Endpoint** Value **Species** Amines, C12-14-tert-1,3 mg/I 68955-53-3 LC50 fish 96 h alkyl Amines, C12-14-tert-68955-53-3 EC50 ≤6 <sup>mg</sup>/<sub>I</sub> aquatic invertebrates 48 h alkyl Amines, C12-14-tert-68955-53-3 ErC50 $0,44 \, ^{mg}/_{I}$ algae 72 h alkyl 1213789-63-9 LC50 0,84 <sup>mg</sup>/<sub>I</sub> fish 96 h C16-18-(even numbered, saturated and unsaturated)-alkylamines C16-18-(even numbered, saturated 1213789-63-9 EC50 0,32 <sup>mg</sup>/<sub>l</sub> aquatic invertebrates 48 h and unsaturated)-alkylamines C16-18-(even 1213789-63-9 ErC50 0,39 mg/<sub>I</sub> algae 72 h numbered, saturated and unsaturated)-alkylamines

| Aquatic toxicity (ch                                                     | Aquatic toxicity (chronic) of components of the mixture |          |                                   |                       |                  |  |
|--------------------------------------------------------------------------|---------------------------------------------------------|----------|-----------------------------------|-----------------------|------------------|--|
| Name of substance                                                        | CAS No                                                  | Endpoint | Value                             | Species               | Exposure<br>time |  |
| Amines, C12-14-tert-<br>alkyl                                            | 68955-53-3                                              | EC50     | 63,5 <sup>mg</sup> / <sub>l</sub> | microorganisms        | 30 min           |  |
| C16-18-(even<br>numbered, saturated<br>and unsaturated)-al-<br>kylamines | 1213789-63-9                                            | EC50     | 0,24 <sup>mg</sup> / <sub>l</sub> | aquatic invertebrates | 21 d             |  |

## 12.2 Persistence and degradability

Biodegradation

Data are not available.



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## Degradability of components of the mixture

| Name of sub-<br>stance                                                          | CAS No       | Process                      | Degradation<br>rate | Time | Method | Source |
|---------------------------------------------------------------------------------|--------------|------------------------------|---------------------|------|--------|--------|
| Amines, C12-<br>14-tert-alkyl                                                   | 68955-53-3   | oxygen deple-<br>tion        | 22 %                | 28 d |        | ECHA   |
| C16-18-(even<br>numbered, sat-<br>urated and un-<br>saturated)-al-<br>kylamines | 1213789-63-9 | carbon dioxide<br>generation | 18 %                | 6 d  |        | ECHA   |
| C16-18-(even<br>numbered, sat-<br>urated and un-<br>saturated)-al-<br>kylamines | 1213789-63-9 | oxygen deple-<br>tion        | 34 %                | 5 d  |        | ECHA   |

## 12.3 Bioaccumulative potential

Data are not available.

#### Bioaccumulative potential of components of the mixture

| Name of substance         | CAS No     | BCF | Log KOW                   | BOD5/COD |
|---------------------------|------------|-----|---------------------------|----------|
| Amines, C12-14-tert-alkyl | 68955-53-3 |     | 2,9 (pH value: ~7, 23 °C) |          |

## 12.4 Mobility in soil

Data are not available.

#### 12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance in a concentration of  $\geq 0.1\%$ .

## 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of  $\geq$  0,1%.

### 12.7 Other adverse effects

Data are not available.

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

## Relevant provisions relating to waste

Mineral-based non-chlorinated engine, gear and lubricating oils 13 02 05\*



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#### Remarks

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

#### **SECTION 14: Transport information**

**14.1 UN number or ID number** not subject to transport regulations

**14.2 UN proper shipping name** not relevant

**14.3 Transport hazard class(es)** none

**14.4 Packing group** not assigned

**14.5 Environmental hazards** non-environmentally hazardous acc. to the dan-

gerous goods regulations

14.6 Special precautions for user

There is no additional information.

14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

## Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - additional information

Not subject to ADR, RID and ADN.

International Maritime Dangerous Goods Code (IMDG) - additional information Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) - additional information Not subject to ICAO-IATA.

#### **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

## Restrictions according to REACH, Annex XVII

Dangerous substances with restrictions (REACH, Annex XVII)

| Name of substance                                             | Name acc. to inventory                                                                                   | CAS No | Restriction | No |
|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------|-------------|----|
| UNIL SP 220                                                   | this product meets the criteria for<br>classification in accordance with Reg-<br>ulation No 1272/2008/EC |        | R3          | 3  |
| Amines, C12-14-tert-alkyl                                     | substances in tattoo inks and perman-<br>ent make-up                                                     |        | R75         | 75 |
| C16-18-(even numbered, saturated and unsaturated)-alkylamines | substances in tattoo inks and permanent make-up                                                          |        | R75         | 75 |

Legend

R3 1. Shall not be used in:

<sup>-</sup> ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental



acc. to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU

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lamps and ashtrays,

- tricks and jokes,
   games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
  2. Articles not complying with paragraph 1 shall not be placed on the market.
- 3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both,
- can be used as fuel in decorative oil lamps for supply to the general public, and present an aspiration hazard and are labelled with H304.
- 4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).
- European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).

  5. Without prejudice to the implementation of other Union provisions relating to the classification, labelling and packaging of substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:
  (a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows:
  "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil or even sucking the wick of lamps may lead to life-threatening lung damage";
  (b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1
  December 2010 as follows: 'Just a sip of grill lighter fluid may lead to life threatening lung damage';
  (c) lamps oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.';



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1. Shall not be placed on the market in mixtures for use for tattooing purposes, and mixtures containing any such substances shall not be used for tattooing purposes, after 4 January 2022 if the substance or substances in question is or are present in the following circumstances:

(a) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as carcinogen category 1A, 1B or 2, or germ cell mutagen category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight;

(b) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as reproductive toxicant category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight; (c) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin sensitiser category 1, 1A

or 1B, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight; (d) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin corrosive category 1, 1A, 1B or 1C or skin irritant category 2, or as serious eye damage category 1 or eye irritant category 2, the substance is present in the mixture in a concentration equal to or greater than:

the mixture in a concentration equal to or greater than:
(i) 0,1 % by weight, if the substance is used solely as a pH regulator;
(ii) 0,01 % by weight, in all other cases;
(e) in the case of a substance listed in Annex II to Regulation (EC) No 1223/2009 (\*1), the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight;
(f) in the case of a substance for which a condition of one or more of the following kinds is specified in column g (Product type, Body parts) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight: centration equal to or greater than 0,00005 % by weight:

(i) "Rinse-off products";

(ii) "Not to be used in products applied on mucous membranes";

(iii) "Not to be used in eye products"

(g) in the case of a substance for which a condition is specified in column h (Maximum concentration in ready for use preparation) or column i (Other) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration, or in some other way, that does not accord with the condition specified in that column;

(h) in the case of a substance listed in Appendix 13 to this Annex, the substance is present in the mixture in a concentration equal to or greater than the concentration limit specified for that substance in that Appendix.

2. For the purposes of this entry use of a mixture "for tattooing purposes" means injection or introduction of the mixture into a person's skin, mucous membrane or eyeball, by any process or procedure (including procedures commonly referred to as permanent make-up, cosmetic tattooing, micro-blading and micro-pigmentation), with the aim of making a mark or design on his or her body.

3. If a substance not listed in Appendix 13 falls within more than one of points (a) to (g) of paragraph 1, the strictest concen-

tration limit laid down in the points in question shall apply to that substance. If a substance listed in Appendix 13 also falls within one or more of points (a) to (g) of paragraph 1, the concentration limit laid down in point (h) of paragraph 1 shall apply to that substance.

4. By way of derogation, paragraph 1 shall not apply to the following substances until 4 January 2023: (a) Pigment Blue 15:3 (CI 74160, EC No 205-685-1, CAS No 147-14-8); (b) Pigment Green 7 (CI 74260, EC No 215-524-7, CAS No 1328-53-6).

5. If Part 3 of Annex VI to Regulation (EC) No 1272/2008 is amended after 4 January 2021 to classify or re-classify a substance such that the substance then becomes caught by point (a), (b), (c) or (d) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the date of application of that new or revised classification is after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect on the date of application of that new or revised classification.
6. If Annex II or Annex IV to Regulation (EC) No 1223/2009 is amended after 4 January 2021 to list or change the listing of a

substance such that the substance then becomes caught by point (e), (f) or (g) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the amendment takes effect after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect from the date falling 18 months after entry into force of the act by which that amendment was made.

7. Suppliers placing a mixture on the market for use for tattooing purposes shall ensure that, after 4 January 2022, the mixture is marked with the following information:

(a) the statement "Mixture for use in tattoos or permanent make-up";

(b) a reference number to uniquely identify the batch;

(c) the list of ingredients in accordance with the nomenclature established in the glossary of common ingredient names pursuant to Article 33 of Regulation (EC) No 1223/2009, or in the absence of a common ingredient name, the IUPAC name. In the absence of a common ingredient name or IUPAC name, the CAS and EC number. Ingredients shall be listed in descending order by weight or volume of the ingredients at the time of formulation. "Ingredient" means any substance added during the process of formulation and present in the mixture for use for tattooing purposes. Impurities shall not be regarded as ingredients. If the name of a substance, used as ingredient within the meaning of this entry, is already required to be stated on the label in accordance with Regulation (EC) No 1272/2008, that ingredient does not need to be marked in accordance with this

(d) the additional statement "pH regulator" for substances falling under point (d)(i) of paragraph 1; (e) the statement "Contains nickel. Can cause allergic reactions." if the mixture contains nickel below the concentration limit specified in Appendix 13;

(f) the statement "Contains chromium (VI). Can cause allergic reactions." if the mixture contains chromium (VI) below the concentration limit specified in Appendix 13

(g) safety instructions for use insofar as they are not already required to be stated on the label by Regulation (EC) No 1272/

The information shall be clearly visible, easily legible and marked in a way that is indelible.

The information shall be written in the official language(s) of the Member State(s) where the mixture is placed on the market, unless the Member State(s) concerned provide(s) otherwise.

Where necessary because of the size of the package, the information listed in the first subparagraph, except for point (a),



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shall be included instead in the instructions for use.

Before using a mixture for tattooing purposes, the person using the mixture shall provide the person undergoing the procedure with the information marked on the package or included in the instructions for use pursuant to this paragraph.

8. Mixtures that do not contain the statement "Mixture for use in tattoos or permanent make-up" shall not be used for tattooing purposes.

9. This entry does not apply to substances that are gases at temperature of 20 °C and pressure of 101,3 kPa, or generate a vapour pressure of more than 300 kPa at temperature of 50 °C, with the exception of formaldehyde (CAS No 50-00-0, EC No 200-001-8)

10. This entry does not apply to the placing on the market of a mixture for use for tattooing purposes, or to the use of a mixture for tattooing purposes, when placed on the market exclusively as a medical device or an accessory to a medical device, within the meaning of Regulation (EU) 2017/745, or when used exclusively as a medical device or an accessory to a medical device, within the same meaning. Where the placing on the market or use may not be exclusively as a medical device or an accessory to a medical device, the requirements of Regulation (EU) 2017/745 and of this Regulation shall apply cumulatively.

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

none of the ingredients are listed

#### **Seveso Directive**

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

## **Industrial Emissions Directive (IED)**

VOC content

< 3 %.

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

none of the ingredients are listed

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

none of the ingredients are listed

#### Regulation on persistent organic pollutants (POP)

none of the ingredients are listed

## **National regulations (Austria)**

Ordinance on combustible liquids (VbF)

**not applicable** (flash point higher than 60°C and not a gas oil or petroleum) (product that meets the requirements for viscouse products according to VbF 2023, § 1 (9))

## **National regulations (Germany)**

# Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV)

Wassergefährdungsklasse, WGK 2 (water hazard class)

2 obviously hazardous to water

## **National regulations Switzerland**

## Ordinance on the incentive tax on volatile organic compounds (VOCV)

VOC content (object of taxation): 45,86 %



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## **National inventories**

| Country | Inventory  | Status                         |
|---------|------------|--------------------------------|
| AU      | AIIC       | not all ingredients are listed |
| CA      | DSL        | not all ingredients are listed |
| CN      | IECSC      | not all ingredients are listed |
| EU      | ECSI       | not all ingredients are listed |
| EU      | REACH Reg. | not all ingredients are listed |
| JP      | CSCL-ENCS  | not all ingredients are listed |
| KR      | KECI       | not all ingredients are listed |
| MX      | INSQ       | not all ingredients are listed |
| NZ      | NZIoC      | not all ingredients are listed |
| PH      | PICCS      | not all ingredients are listed |
| TR      | CICR       | not all ingredients are listed |
| TW      | TCSI       | not all ingredients are listed |
| US      | TSCA       | not all ingredients are listed |

Legend

AIIC Australian Inventory of Industrial Chemicals CICR CSCL-ENCS

Chemical Inventory and Control Regulation
List of Existing and New Chemical Substances (CSCL-ENCS)

DSL ECSI IECSC INSQ

List of Existing and New Chemical Substances (CSCL-ENCS)

Domestic Substances List (DSL)

EC Substance Inventory (EINECS, ELINCS, NLP)

Inventory of Existing Chemical Substances Produced or Imported in China National Inventory of Chemical Substances

Korea Existing Chemicals Inventory

New Zealand Inventory of Chemicals

Philippine Inventory of Chemicals and Chemical Substances (PICCS)

REACH registered substances KECI NZIoC

PICCS

REACH registered substances
Taiwan Chemical Substance Inventory REACH Reg. TCSI

TSCA Toxic Substance Control Act

## **Chemical safety assessment**

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

## **SECTION 16: Other information**

## Indication of changes (revised safety data sheet)

| Section | Former entry (text/value)            | Actual entry (text/value)                                                                                   |
|---------|--------------------------------------|-------------------------------------------------------------------------------------------------------------|
| 2.2     |                                      | - supplemental hazard information:<br>change in the listing (table)                                         |
| 2.3     | Other hazards:<br>of no significance | Other hazards                                                                                               |
| 2.3     |                                      | Results of PBT and vPvB assessment:<br>Does not contain a PBT-/vPvB-substance in a concentration of ≥ 0,1%. |



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| es version of: 11. |                                                                                                                                                                                                       |                                                                                                                                                                                                                                  |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Section            | Former entry (text/value)                                                                                                                                                                             | Actual entry (text/value)                                                                                                                                                                                                        |
| 2.3                |                                                                                                                                                                                                       | Endocrine disrupting properties:<br>Does not contain an endocrine disruptor (EDC) in a<br>concentration of ≥ 0,1%.                                                                                                               |
| 3.2                |                                                                                                                                                                                                       | Hazardous ingredients:<br>change in the listing (table)                                                                                                                                                                          |
| 3.2                |                                                                                                                                                                                                       | Hazardous ingredients:<br>change in the listing (table)                                                                                                                                                                          |
| 8.1                | Control parameters:<br>This information is not available.                                                                                                                                             | Control parameters:<br>Occupational exposure limit values (Workplace Ex-<br>posure Limits)<br>this information is not available                                                                                                  |
| 8.1                |                                                                                                                                                                                                       | Relevant DNELs of components of the mixture:<br>change in the listing (table)                                                                                                                                                    |
| 8.1                |                                                                                                                                                                                                       | Relevant PNECs of components of the mixture:<br>change in the listing (table)                                                                                                                                                    |
| 8.2                | Respiratory protection: [In case of inadequate ventilation] wear respiratory protection. Type: AX (gas filters and combined filters against low-boiling point organic compounds, colour code: Brown). | Respiratory protection: [In case of inadequate ventilation] wear respiratory protection. Combination filtering device (EN 141). Type: A (against organic gases and vapours with a boiling point of > 65 °C, colour code: Brown). |
| 11.1               |                                                                                                                                                                                                       | Acute toxicity estimate (ATE) of components of the mixture: change in the listing (table)                                                                                                                                        |
| 11.1               |                                                                                                                                                                                                       | Acute toxicity of components of the mixture: change in the listing (table)                                                                                                                                                       |
| 11.1               | Respiratory or skin sensitisation:<br>Contains 2,5-Bis(oktyldithio)-1,3,4-Thiadiazol. May<br>produce an allergic reaction.                                                                            | Respiratory or skin sensitisation:<br>Contains Amines, C12-14-tert-alkyl. May produce an<br>allergic reaction.                                                                                                                   |
| 12.1               |                                                                                                                                                                                                       | Aquatic toxicity (acute) of components of the mix-<br>ture:<br>change in the listing (table)                                                                                                                                     |
| 12.1               |                                                                                                                                                                                                       | Aquatic toxicity (chronic) of components of the mix-<br>ture:<br>change in the listing (table)                                                                                                                                   |
| 12.2               |                                                                                                                                                                                                       | Degradability of components of the mixture:<br>change in the listing (table)                                                                                                                                                     |
| 12.3               |                                                                                                                                                                                                       | Bioaccumulative potential of components of the mix-<br>ture:<br>change in the listing (table)                                                                                                                                    |
| 12.5               | Results of PBT and vPvB assessment:<br>Data are not available.                                                                                                                                        | Results of PBT and vPvB assessment: According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance in a concentration of ≥ 0,1%.                                      |
| 12.6               | Endocrine disrupting properties:<br>None of the ingredients are listed.                                                                                                                               | Endocrine disrupting properties:<br>Does not contain an endocrine disruptor (EDC) in a<br>concentration of ≥ 0,1%.                                                                                                               |



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## **Abbreviations and acronyms**

| Abbr.           | Descriptions of used abbreviations                                                                                                                                                                                              |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute Tox.      | Acute toxicity                                                                                                                                                                                                                  |
| ADN             | Accord européen relatif au transport international des marchandises dangereuses par voies de naviga-<br>tion intérieures (European Agreement concerning the International Carriage of Dangerous Goods by In-<br>land Waterways) |
| ADR             | Accord relatif au transport international des marchandises dangereuses par route (Agreement concern-<br>ing the International Carriage of Dangerous Goods by Road)                                                              |
| Aquatic Acute   | Hazardous to the aquatic environment - acute hazard                                                                                                                                                                             |
| Aquatic Chronic | Hazardous to the aquatic environment - chronic hazard                                                                                                                                                                           |
| Asp. Tox.       | Aspiration hazard                                                                                                                                                                                                               |
| ATE             | Acute Toxicity Estimate                                                                                                                                                                                                         |
| BCF             | Bioconcentration factor                                                                                                                                                                                                         |
| BOD             | Biochemical Oxygen Demand                                                                                                                                                                                                       |
| CAS             | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)                                                                                                                          |
| CLP             | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures                                                                                                                              |
| COD             | Chemical oxygen demand                                                                                                                                                                                                          |
| DGR             | Dangerous Goods Regulations (see IATA/DGR)                                                                                                                                                                                      |
| DNEL            | Derived No-Effect Level                                                                                                                                                                                                         |
| EC50            | Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval                                                |
| EC No           | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an ident fier of substances commercially available within the EU (European Union)                                               |
| EINECS          | European Inventory of Existing Commercial Chemical Substances                                                                                                                                                                   |
| ELINCS          | European List of Notified Chemical Substances                                                                                                                                                                                   |
| ErC50           | ≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control                                                          |
| Eye Dam.        | Seriously damaging to the eye                                                                                                                                                                                                   |
| Eye Irrit.      | Irritant to the eye                                                                                                                                                                                                             |
| GHS             | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations                                                                                                                       |
| IATA            | International Air Transport Association                                                                                                                                                                                         |
| IATA/DGR        | Dangerous Goods Regulations (DGR) for the air transport (IATA)                                                                                                                                                                  |
| ICAO            | International Civil Aviation Organization                                                                                                                                                                                       |
| IMDG            | International Maritime Dangerous Goods Code                                                                                                                                                                                     |
| index No        | The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008                                                                                                        |



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| Abbr.       | Descriptions of used abbreviations                                                                                                                                                                                                                                                       |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LC50        | Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval                                                                                                                                        |
| LD50        | Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval                                                                                                                                                         |
| log KOW     | n-Octanol/water                                                                                                                                                                                                                                                                          |
| M-factor    | Means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to the aquatic environment acute category 1 or chronic category 1, and is used to derive by the summation method the classification of a mixture in which the substance is present |
| NLP         | No-Longer Polymer                                                                                                                                                                                                                                                                        |
| PBT         | Persistent, Bioaccumulative and Toxic                                                                                                                                                                                                                                                    |
| PNEC        | Predicted No-Effect Concentration                                                                                                                                                                                                                                                        |
| REACH       | Registration, Evaluation, Authorisation and Restriction of Chemicals                                                                                                                                                                                                                     |
| RID         | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regula-<br>tions concerning the International carriage of Dangerous goods by Rail)                                                                                                             |
| Skin Corr.  | Corrosive to skin                                                                                                                                                                                                                                                                        |
| Skin Irrit. | Irritant to skin                                                                                                                                                                                                                                                                         |
| Skin Sens.  | Skin sensitisation                                                                                                                                                                                                                                                                       |
| STOT RE     | Specific target organ toxicity - repeated exposure                                                                                                                                                                                                                                       |
| STOT SE     | Specific target organ toxicity - single exposure                                                                                                                                                                                                                                         |
| SVHC        | Substance of Very High Concern                                                                                                                                                                                                                                                           |
| TRGS        | Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany)                                                                                                                                                                                                   |
| VOC         | Volatile Organic Compounds                                                                                                                                                                                                                                                               |
| vPvB        | Very Persistent and very Bioaccumulative                                                                                                                                                                                                                                                 |

#### Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

## **Classification procedure**

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

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



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| Code | Text                                                               |
|------|--------------------------------------------------------------------|
| H302 | Harmful if swallowed.                                              |
| H304 | May be fatal if swallowed and enters airways.                      |
| H311 | Toxic in contact with skin.                                        |
| H314 | Causes severe skin burns and eye damage.                           |
| H317 | May cause an allergic skin reaction.                               |
| H318 | Causes serious eye damage.                                         |
| H330 | Fatal if inhaled.                                                  |
| H335 | May cause respiratory irritation.                                  |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life.                                        |
| H410 | Very toxic to aquatic life with long lasting effects.              |
| H412 | Harmful to aquatic life with long lasting effects.                 |

## **Disclaimer**

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