according to Regulation No 1907/2006 of the European Parliament and of the Council, as subsequently

amended

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

#### 1.1 Product identifier

Trade Name GENTOO PART A

Mixture description An aqueous solution of iso-propanol and silanes.

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

Identified uses Coating material. This product is one part of a two part product. Read

and understand the hazard information on the SDS for Part B before

using this product.

Uses advised against Only for identified uses.

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

NetDesign, s.r.o.

Kosmova 342/10 460 14 Liberec 13

Czech Republic

telephone: +420 608 514 272

e-mail address for a competent person responsible for the SDS: netdesign@netdesign.cz

#### 1.4 Emergency telephone number

112 (General emergency phone), 998 (fire brigade), 999 (ambulance service).

### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

The mixture is classified as dangerous according to regulation 1272/2008/EC.

Classification according to 1272/2008/EC Flam. Liq. 2; H225

Skin Sens. 1; H317 Eye Irrit. 2; H319 STOT SE 3; H335 STOT SE 3; H336

Full text of classifications and H-phrases: see section 16.

### The most important adverse physicochemical, human health and environmental effects

Highly flammable liquid and vapour. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness.

#### 2.2 Label elements

hazard pictograms





signal word

Danger

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placed on the label

components of the mixture to be

Contains propan-2-ol, polyurethane silane and tetraethyl silicate.

hazard statements H225 - Highly flammable liquid and vapour.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.H335 - May cause respiratory irritation.H336 - May cause drowsiness or dizziness.

precautionary statements P210 - Keep away from heat, hot surfaces, sparks, open flames and

other ignition sources. No smoking.
P233 - Keep container tightly closed.
P261 - Avoid breathing mist/vapours/spray.

P280 - Wear protective gloves/protective clothing/eye protection/face

protection.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P337+P313 - If eye irritation persists: Get medical advice/attention. P370+P378 - In case of fire: Use water spray, alcohol resistant foam,

dry chemical or carbon dioxide to extinguish.

P403+P235 - Store in a well-ventilated place. Keep cool.

P501 - Dispose of contents/container to in accordance with local

regulations.

supplemental hazard information Mandatory additional information is not required according to CLP

regulation.

### 2.3 Other hazards

Mixture or its components are not classified as PBT or vPvB, not the date of issue of the safety data sheet kept on the candidate list for Annex XIV of the REACH Regulation.

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

# 3.2 Mixtures

### 3.2.1 Components of a mixture classified as hazardous

| Chemical identity                                 | CAS Number<br>EC Number<br>Index Number | Registration<br>Number    | Content (wt.<br>%) | Classification<br>1272/2008/EC                              |
|---|---|---------------------------|--------------------|---|
| Propan-2-ol;<br>Isopropyl alcohol;<br>Isopropanol | 67-63-0<br>200-661-7<br>603-117-00-0    | 01-2119457558-<br>25-XXXX | 20 - 75            | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319<br>STOT SE 3; H336 |
| Proprietary Polyurethane<br>Silane                | Proprietary                             | not yet available         | 20 - 50            | Skin Sens. 1; H317<br>Eye Irrit. 2; H319<br>STOT SE 3; H335 |

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| Tetraethyl silicate | 78-10-4<br>201-083-8<br>014-005-00-0 | 01-2119496195-<br>28-XXXX | 10 - 20 | Flam. Liq. 3; H226<br>Eye Irrit. 2; H319<br>Acute Tox. 4; H332<br>STOT SE 3; H335 |
|---------------------|--------------------------------------|---------------------------|---------|---|
|---------------------|--------------------------------------|---------------------------|---------|---|

# **SECTION 4: First aid measures**

In all cases keep the victim at physical and mental rest and warm. In case of doubt or if symptoms persist, seek medical attention. An unconscious person never give anything.

### 4.1 Description of first aid measures

#### Inhalation

Interrupt the exposure, transfer the person to the fresh air. In case of persistent nausea, seek medical advice.

#### Skin contact

Remove contaminated clothing, shoes, and wash thoroughly with water (preferably lukewarm) and soap. Do not use solvents or thinners. If the problem persists, seek medical advice.

#### Eye contact

Rinse with a gentle stream of water for at least 15 minutes. Keep your eyelids wide open with your thumb and forefinger. If the affected person is wearing contact lenses, remove them before rinsing eyes if it is easy. Move to the physician while continue rinsing.

### Ingestion

Rinse your mouth and then drink plenty of water. Do not induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Seek medical advice.

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

Causes eye irritation. May cause mild skin irritation. May cause an allergic skin reaction in some individuals. Inhalation of mists or vapors may cause upper respiratory tract irritation and may cause drowsiness or dizziness. Ingestion may cause gastrointestinal distress. Ingesting large amounts may be harmful.

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

Treat symptomatically and supportively.

# **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

### Suitable extinguishing media

Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### Extinguishing media which shall not be used for safety reasons

Solid streams of water may be ineffective.

# 5.2 Special hazards arising from the substance or mixture

Fire water and the rest of the product must be contained and prevented from being discharged to any waterway, sewer or drain. Collect it separately and dispose of safely in accordance with applicable laws and local regulations.

In case of fires, hazardous combustion gases are formed: carbon oxides, silicon oxides and products of incomplete combustion.

### 5.3 Advice for firefighters

according to Regulation No 1907/2006 of the European Parliament and of the Council, as subsequently amended

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Highly flammable liquid and vapor. Vapors may accumulate in confined areas and present a fire or explosion hazard. Vapors may be heavier than air and travel along surfaces to remote ignition sources and flash back.

Stop further leakage of product if possible. Move containers and barrels away from the fire to a safe place, if possible. Cool all affected containers down with flooding quantities of water. If the fire can't be extinguished - evacuate the premises.

In case of fire, wear suitable respiratory protective equipment and fire-fighting suit.

# **SECTION 6: Accidental release measures**

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

Avoid contact with skin and eyes, use suitable protective equipment and clothing, see Section 8. Ensure adequate ventilation. Eliminate all sources of ignition.

### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let the product enter drains. If this cannot be avoided, inform the competent authorities (police and firefighters) immediately.

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

According to the amount of spilled liquid, drain away the substance (large spillage) or in case of small spillage, absorb it with suitable absorbent (vermikulit, dry sand), put into labelled closed containers and dispose of them accordingly to Section 13. Flush residues with water and collect it for waste disposal.

If the packaging is damaged, move the contents to the new, undamaged packaging and label them again.

#### 6.4 Reference to other sections

Refer also to the provisions of sections 7, 8 and 13 of this safety data sheet.

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

#### 7.1 Precautions for safe handling

Provide good ventilation to prevent the formation of vapour and aerosol. Avoid contact with skin and eyes. Do not use dirty clothes. After work, rinse thoroughly with warm water and soap. Use a protective cream.

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

Store only in the original container. Protect containers from physical damage. Store away from strong oxidizers and acids. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

### 7.3 Specific end use(s)

See sections 1.2.

# SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

# 8.1.1 Exposure limit value

ΕU

Not are determined in EU

# 8.1.2 Biological limit values

Not are determined in EU

# 8.1.3 DNEL and PNEC values

Propan-2-ol CAS: 67-63-0

**DNEL** 

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| Are            | a of use           |        | Route of exposure   |                        | Effect                |                  | Exposure time        |                 | Value                 |                      |  |
|----------------|--------------------|--------|---------------------|------------------------|-----------------------|------------------|----------------------|-----------------|-----------------------|----------------------|--|
| V              | orkers/            |        | Inhalation          |                        | Systemic effect       |                  | Long term            |                 | 500 mg/m <sup>3</sup> |                      |  |
| V              | /orkers            |        | Dermal              |                        | Systemic effect       |                  | Long term            |                 | 888 mg/kg/day         |                      |  |
| Genera         | al populat         | ion    | Inhala              | tion                   | Systemic effect       |                  | Long term            |                 | 89                    | 89 mg/m <sup>3</sup> |  |
| Genera         | al populat         | ion    | Derm                | nal                    | Systemic effect       |                  | Long term            |                 | 319 mg/kg/day         |                      |  |
| Genera         | al populat         | ion    | Oral                |                        | Systemic effect       |                  | Long term            |                 | 26 mg/kg/day          |                      |  |
| PNEC           |                    |        | 1                   |                        |                       |                  | 1                    |                 |                       |                      |  |
| Fresh<br>water | Marine<br>water    |        | ermittent<br>leases | SIP                    |                       | Soil             | Hazard for predators |                 |                       |                      |  |
| 140.9<br>mg/l  | 140.9<br>mg/l      | 140    | 0.9 mg/l            | 2251<br>mg/l           | 552 mg/kg             | 552              | mg/kg                | not<br>given    | 28<br>mg/kg           | 160 mg/kg<br>food    |  |
| Tetraeth       | etraethyl silicate |        |                     | I.                     |                       |                  |                      |                 | CAS: 7                | 8-10-4               |  |
| DNEL           |                    |        |                     |                        |                       |                  |                      |                 |                       |                      |  |
| Area           | a of use           |        | Route of exposure   |                        | Effect                |                  | Exposure time        |                 | Value                 |                      |  |
| W              | orkers             |        | Inhalation          |                        | Systemic effect Lor   |                  | Long                 | Long term       |                       | 85 mg/m <sup>3</sup> |  |
| W              | orkers             |        | Inhalation          |                        | Systemic effect Acute |                  | Acute/s              | cute/short term |                       | 85 mg/m <sup>3</sup> |  |
| W              | orkers             |        | Inhalation          |                        | Local effec           | ffect Lon        |                      | g term          | 8                     | 85 mg/m <sup>3</sup> |  |
| W              | orkers             |        | Inhalation          |                        | Local effect Ac       |                  | Acute/short term     |                 | 85 mg/m <sup>3</sup>  |                      |  |
| W              | orkers             |        | Dermal              |                        | Systemic effect       |                  | Long term            |                 | 56 mg/kg/day          |                      |  |
| W              | orkers             |        | Dermal              |                        | Systemic effe         | ect              | Acute/s              | cute/short term |                       | 56 mg/kg/day         |  |
| General        | population         | on     | Inhalation          |                        | Systemic effo         | ect              | Long term            |                 | 28 mg/m <sup>3</sup>  |                      |  |
| Genera         | population         | on     | Inhalation          |                        | Systemic effect Ac    |                  | Acute/short term     |                 | 28 mg/m <sup>3</sup>  |                      |  |
| General        | population         | on     | Inhalation          |                        | Local effect          |                  | Long term            |                 | 28 mg/m <sup>3</sup>  |                      |  |
| General        | population         | on     | Inhalation          |                        | Local effect          |                  | Acute/short term     |                 | 28 mg/m <sup>3</sup>  |                      |  |
| General        | population         | on     | Dermal              |                        | Systemic effect       |                  | Long term            |                 | 3 mg/kg/day           |                      |  |
| General        | population         | on     | Derm                | Dermal Systemic effect |                       | Acute/short term |                      | 3 mg/kg/day     |                       |                      |  |
| PNEC           |                    |        |                     |                        |                       |                  |                      |                 |                       |                      |  |
| Fresh<br>water | Marine<br>water    |        | ermittent<br>leases | STP                    | Sediment (freshwater) |                  | diment<br>ne water)  | Air             | Soil                  | Hazard for predators |  |
| 0.19<br>mg/l   | 0.019<br>mg/l      | 10     | 0 mg/l              | 4 000<br>mg/l          | 0.83 mg/kg            | 0.083            | 3 mg/kg              | not<br>given    | 0.05<br>mg/kg         | not given            |  |
| 82 Eyna        | nsura coi          | ntrole | •                   |                        |                       |                  |                      |                 |                       |                      |  |

# 8.2 Exposure controls

# 8.2.1 Exposure reduction (technical measures)

Use only in well-ventilated areas.

Observe usual safety precautions for working with chemicals. The degree of effectiveness of personal protective equipment depends on temperature and ventilation levels.

# 8.2.2 Individual protection measures, such as personal protective equipment

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Respiratory protection Not necessary in case of compliance concentration limits (if they

were exceeded, use a respirator). In the event of an accident or a

fire use self-contained breathing apparatus.

Hand protection Chemically resistant protective gloves.

Material:

polyvinylchloride, penetration time: > 480 min., glove thickness:

0.35 mm

Eye/face protection Wear safety goggles or shield.

Skin protection Suitable protective working clothing and footwear.

Do not eat, drink or smoke. After work, wash thoroughly with warm water and soap and take a shower. Use protective cream.

### 8.2.3 Environmental exposure reduction

Uncontrolled release of the substance/formulation into environment is to be avoided. Observe the emission limits.

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

# 9.1 Information on basic physical and chemical properties

Appearance (at 20 C)liquid, amberOdouralcoholic

Odour thresholdnot determinedpH (at 20 C)not determinedMelting point/freezing pointnot determined

Boiling point (range) 83 C
Flash point 12 C

Evaporation rate not determined Flammability not determined

Explosive limits lower (% vol.) 1 vol.%

*upper* (% vol.) 12 vol.%

Vapour pressure (at 20 C) 59 hPa

Vapour densitynot determinedRelative density0.898 (water = 1)

**Solubility in water** (at 20 C) soluble

Solubility in organic solvents: not determined Partition coefficient: n-octanol/water not determined

Auto-ignition temperature 399 C

Decomposition temperaturenot determinedViscositynot determined

Explosive propertiesis not classified as explosiveOxidising propertiesis not classified as an oxidant

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### 9.2 Other information

**VOC** 3.77 %

# **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

The mixture is stable under normal conditions of use.

# 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

None known.

#### 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

### 10.5 Incompatible materials

Strong oxidizing agents a acids.

### 10.6 Hazardous decomposition products

Burning releases carbon oxides, silicon oxides and products of incomplete combustion.

# **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

#### Acute toxicity

- LD<sub>50</sub> oral, rat (mg/kg) Data for the mixture are not available

5 840 - propan-2-ol

> 2 500 - tetraethyl silicate

- LD<sub>50</sub> skin, rat or rabbit (mg/kg) Data for the mixture are not available

16.4 ml/kg - propan-2-ol (12 792 mg/kg at density 0.78

g/cm<sup>3</sup>, rabbit)

- LC<sub>50</sub> inhalation, rat (mg/l, 4 h) Data for the mixture are not available

7.5 - calculated according to additive formula (aerosol)

> 10 000 ppm - propan-2-ol (vapour, 6 h)
 10 - tetraethyl silicate (aerosol, male)
 > 16,8 - tetraethyl silicate (aerosol, female)
 ATE = 1,5 - tetraethyl silicate (aerosol)

**Skin corrosion/irritation**A slight effect, the classification criteria are not fulfilled

not irritant - mean erythema score = 0 and oedema = 0 -

propan-2-ol (rabbit, OECD 404)

not irritant- mean erythema score = 2.22 (fully reversible after 10 days) and oedema = 2.33 (fully reversible after 10 days) - tetraethyl silicate (rabbit, 72 hours, OECD

404)

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**Serious eye damage/irritation** Causes serious eye irritation.

classified as irritant for the eyes, total score = 1.89 -

propan-2-ol (rabbit, 72 hr., OECD 405).

classified as irritant for the eyes - tetraethyl silicate

**Respiratory or skin sensitisation** May cause an allergic skin reaction.

not skin sensitising - propan-2-ol (guinea pig, OECD

406)

not skin sensitising - tetraethyl silicate (guinea pig,

OECD 406)

Carcinogenicity Not containing these substances (or less than the

classification limit)

NOAEL = 5000 ppm - propan-2-ol (testicular tumors, rat,

male, vapour, OECD 451)

Germ cell mutagenicity Not containing these substances (or less than the

classification limit)

negative - propan-2-ol (OECD 476, OECD 471)

negative - tetraethyl silicate (EU method B.13/14, OECD

473, OECD 476)

Reproductive toxicity

Not containing these substances (or less than the

classification limit)

NOAEL = 853 mg/kg/day - propan-2-ol (rat, OECD 415) NOAEL = 10 mg/kg/day - tetraethyl silicate (rat, male,

oral, OECD 422)

NOAEL = 50 mg/kg/day - tetraethyl silicate (rat, female,

oral, OECD 422)

Specific target organ toxicity - single

exposure

May cause respiratory irritation.

May cause drowsiness or dizziness.

Specific target organ toxicity - repeated

exposure

Not classified

toxic effect at a concentration greater than 5 000 ppm - propan-2-ol (rat, vapour, kidney, 98 d, OECD 413)

NOAEL = 10 - 50 mg/kg/day - tetraethyl silicate (rat, oral,

OECD 422)

Aspiration hazard Not classified

Other information
See section 2 and 4.

# **SECTION 12: Ecological information**

### 12.1 Toxicity

**Fish** Data for the mixture are not available

LC<sub>50</sub>, 96 hrs., Pimephales promelas: 9 640 mg/l - propan-2-ol LC<sub>50</sub>, 96 hrs., Danio rerio: > 245 mg/l - tetraethyl silicate (mortality) NOEC, 96 hrs., Danio rerio: ≥ 245 mg/l - tetraethyl silicate (mortality)

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**Daphnia** Data for the mixture are not available

 $EC_{50}$ , 48 hrs., Daphnia Magna: > 10 000 mg/l - propan-2-ol

logNOEC, 16 d., Daphnia Magna: 3.37 - propan-2-ol

EC<sub>50</sub>, 48 hrs., Daphnia Magna: > 75 mg/l - tetraethyl silicate (mobility) NOEC, 48 hrs., Daphnia Magna: ≥ 75 mg/l - tetraethyl silicate (mobility)

Algae Data for the mixture are not available

threshold toxicity, 7 d., Scenedesmus quadricauda: 1 800 mg/l - propan-2-ol

EC<sub>50</sub>, 72 hrs., Pseudokirchneriella subcapitata: > 22 mg/l - tetraethyl silicate (growth rate

and biomass)

NOEC, 72 hrs., Pseudokirchneriella subcapitata: ≥ 22 mg/l - tetraethyl silicate (growth rate

and biomass)

### 12.2 Persistence and degradability

Data for the mixture are not available

readily biodegradable: 53 % after 5 days - propan-2-ol (EU method C.5 and C.6)

BOD5 / COD ≥ 0.5 - propan-2-ol

**BOD** - Biological Oxygen Demand

COD - Chemical Oxygen Demand

readily biodegradable: 98 % after 28 days - tetraethyl silicate (dissolved organic carbon removal, EU

method C.4-A)

# 12.3 Bioaccumulative potential

Data for the mixture are not available

log Pow = 0.05 - propan-2-ol (25 C)

BCF = 3.16 - tetraethyl silicate ((Q)SAR method)

### 12.4 Mobility in soil

Data for the mixture are not available

#### 12.5 Results of PBT and vPvB assessment

Mixture or its components are not classified as a PBT or a vPvB.

### 12.6 Other adverse effects

no data available

# **SECTION 13: Disposal considerations**

# 13.1 Waste treatment methods

#### Disposal methods of the substance or mixture and the contaminated packaging

Delete according to the applicable European and local regulations (eg. in a hazardous waste incinerator). Never remove flushing into sewer! Do not contaminate ponds or ditches with chemical or used container. Residual amounts and solutions to a licensed disposal company.

For classifying the waste and the removal of waste producer responsibility.

Possible waste code 08 01 11\* - waste paint and varnish containing organic solvents or other dangerous substances

### Physical/chemical properties that may affect waste treatment options

Flammability.

according to Regulation No 1907/2006 of the European Parliament and of the Council, as subsequently amended

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# Special precautions recommended for waste management

None known.

### Waste legislation

Directive 2008/98/EC

# **SECTION 14: Transport information**

#### 14.1 UN number

1263

# 14.2 UN proper shipping name

- ADR/RID/IMDG/IATA PAINT (Propan-2-ol)

#### 14.3 Transport hazard class(es)

3

# 14.4 Packing group

П

#### 14.5 Environmental hazards

not given

### 14.6 Special precautions for user

not given

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

not available

### Marking according to ADR



### ADR/RID

- classification code
- labels
- hazard identification code
33

- tunnel restriction code D/E (ADR), - (RID)

#### **IMDG**

- Emergency Schedules (EmS) F-E/S-E

# **SECTION 15: Regulatory information**

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

Regulation No. 1907/2006/ES, REACH. Regulation No. 1272/2008/ES, CLP.

# 15.2 Chemical safety assessment

according to Regulation No 1907/2006 of the European Parliament and of the Council, as subsequently amended

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No data available.

### **SECTION 16: Other information**

#### Reason for alteration

First edition.

### Key or legend to abbreviations and acronyms used in the safety data sheet

Acute Tox. 4 Acute toxicity, cat. 4

Eye Irrit. 2 Eye irritation, cat. 2

Flam. Liq. 2 Flammable liquid, cat. 2

Flam. Liq. 3 Flammable liquid, cat. 3

Skin Sens. 1 Skin sensitization, cat. 1

STOT SE 3 Specific target organ toxicity — single exposure, cat. 3

PBT Persistent, bioaccumulative, toxic chemical

vPvB Very persistent and very bioaccumulative chemical

DNEL Derived No Effect Level

PNEC Predicted No Effect Concentration
CLP Regulation No. 1272/2008/EC
REACH Regulation No. 1907/2006/EC
ADR Accord Dangereuses Route

RID Regulation concerning the International Carriage of Dangerous Goods by Rail

IMDG International Maritime Dangerous Goods ICAO/IATA International Air Transport Association

VOC Volatile organic compound

### Sources of key data used to compile the Safety Data Sheet

European legislation, chemical databases and tables, tests, registration dossier of compounds.

### List of H- and P- phrases

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.

H335 May cause respiratory irritation.H336 May cause drowsiness or dizziness.

according to Regulation No 1907/2006 of the European Parliament and of the Council, as subsequently amended

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| D040 | The second of th | and the control of th |
|------|--|--|
| P210 | Keep away from heat, not surfaces.   | sparks, open flames and other ignition   |

sources. No smoking.

P233 Keep container tightly closed.

P261 Avoid breathing mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

P370+P378 In case of fire: Use water spray, alcohol resistant foam, dry chemical or carbon

dioxide to extinguish.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container to in accordance with local national regulation.

# Training advice

According to MSDS.

### Relevant information for classification

According to additional method of CLP. Classification according to data from the manufacturer. The mixture does not have a harmonized classification in the EU. Use only for the purposes designated by the manufacturer, will prevent health and environmental risks.

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