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PVC CLEANER S 20 1000 ML  
Art.: 9281840

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**Safety data sheet**  
**according to Regulation (EC) No 1907/2006, Annex II**

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

**1.1 Product identifier**

**PVC CLEANER S 20 1000 ML**  
**Art.: 9281840**

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

**Relevant identified uses of the substance or mixture:**

Cleaning product  
Solvents

**Uses advised against:**

No information available at present.

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

BTI Befestigungstechnik GmbH & Co. KG  
Salzstr. 51  
74653 Ingelfingen  
Tel.: +49 7940 141 141  
Fax: +49 7940 141 9141  
Email: info@bti.de  
Homepage: www.bti.de

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

**1.4 Emergency telephone number**

**Emergency information services / official advisory body:**

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**Telephone number of the company in case of emergencies:**

+49 (0) 700 / 24 112 112 (BRC)  
+1 872 5888271 (BRC)

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**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

**Classification according to Regulation (EC) 1272/2008 (CLP)**

| <b>Hazard class</b> | <b>Hazard category</b> | <b>Hazard statement</b>                               |
|---------------------|------------------------|-------------------------------------------------------|
| Flam. Liq.          | 2                      | H225-Highly flammable liquid and vapour.              |
| Skin Irrit.         | 2                      | H315-Causes skin irritation.                          |
| Asp. Tox.           | 1                      | H304-May be fatal if swallowed and enters airways.    |
| STOT SE             | 3                      | H336-May cause drowsiness or dizziness.               |
| Aquatic Chronic     | 2                      | H411-Toxic to aquatic life with long lasting effects. |



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## 2.2 Label elements

### Labeling according to Regulation (EC) 1272/2008 (CLP)



Danger

H225-Highly flammable liquid and vapour. H315-Causes skin irritation. H304-May be fatal if swallowed and enters airways. H336-May cause drowsiness or dizziness. H411-Toxic to aquatic life with long lasting effects.

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children. P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P243-Take action to prevent static discharges. P261-Avoid breathing vapours or spray. P273-Avoid release to the environment.

P301+P310+P331-IF SWALLOWED: Immediately call a POISON CENTER / doctor. Do NOT induce vomiting. P312-Call a POISON CENTRE / doctor if you feel unwell. P391-Collect spillage.

P403+P233-Store in a well-ventilated place. Keep container tightly closed. P405-Store locked up.

P501-Dispose of contents / container to an approved waste disposal facility.

Naphtha (petroleum), hydrotreated light

## 2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

When using: development of explosive vapour/air mixture possible.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

n.a.

### 3.2 Mixtures

|                                                |              |
|------------------------------------------------|--------------|
| <b>Naphtha (petroleum), hydrotreated light</b> |              |
| <b>Registration number (REACH)</b>             | ---          |
| <b>Index</b>                                   | 649-328-00-1 |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>  | 265-151-9    |
| <b>CAS</b>                                     | 64742-49-0   |
| <b>content %</b>                               | 50-70        |



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|                                                                               |                                                                                                              |
|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>STOT SE 3, H336<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411 |
|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|

|                                                                               |                                                                                                              |
|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>Naphtha (petroleum), hydrotreated light</b>                                |                                                                                                              |
| <b>Registration number (REACH)</b>                                            | ---                                                                                                          |
| <b>Index</b>                                                                  | 649-328-00-1                                                                                                 |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                 | 265-151-9                                                                                                    |
| <b>CAS</b>                                                                    | 64742-49-0                                                                                                   |
| <b>content %</b>                                                              | 30-40                                                                                                        |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>STOT SE 3, H336<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411 |

|                                                                               |                                                             |
|-------------------------------------------------------------------------------|-------------------------------------------------------------|
| <b>Propan-2-ol</b>                                                            |                                                             |
| <b>Registration number (REACH)</b>                                            | 01-2119457558-25-XXXX                                       |
| <b>Index</b>                                                                  | 603-117-00-0                                                |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                 | 200-661-7                                                   |
| <b>CAS</b>                                                                    | 67-63-0                                                     |
| <b>content %</b>                                                              | 1-<5                                                        |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336 |

|                                                                               |                                                                                                                                                   |
|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>n-hexane</b>                                                               | <b>Substance for which an EU exposure limit value applies.</b>                                                                                    |
| <b>Registration number (REACH)</b>                                            | ---                                                                                                                                               |
| <b>Index</b>                                                                  | 601-037-00-0                                                                                                                                      |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                 | 203-777-6                                                                                                                                         |
| <b>CAS</b>                                                                    | 110-54-3                                                                                                                                          |
| <b>content %</b>                                                              | 1-<3                                                                                                                                              |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>Repr. 2, H361f<br>STOT SE 3, H336<br>STOT RE 2, H373<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411 |
| <b>Specific Concentration Limits and ATE</b>                                  | STOT RE 2, H373: >=5 %                                                                                                                            |

|                                                        |                       |
|--------------------------------------------------------|-----------------------|
| <b>Ethanol, 2,2'-iminobis-, N-C12-18-alkyl derivs.</b> |                       |
| <b>Registration number (REACH)</b>                     | 01-2119957489-17-XXXX |
| <b>Index</b>                                           | ---                   |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>          | 276-014-8             |
| <b>CAS</b>                                             | 71786-60-2            |
| <b>content %</b>                                       | 0,1-<1                |



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|                                                                               |                                                                                                                                 |
|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | Acute Tox. 4, H302<br>Skin Corr. 1C, H314<br>Eye Dam. 1, H318<br>Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 1, H410 (M=10) |
|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

If, for example, the note P is applied for a hydrocarbon then this has already been taken into account for the classification named here.

Quote: "Note P - The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7)."

Article 4 of the regulation (EC) no. 1272/2008 (CLP regulation) was also observed and taken into account for the classification named here.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

#### Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

If the person is unconscious, place in a stable side position and consult a doctor.

#### Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

#### Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

Protect uninjured eye.

#### Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting. Consult doctor immediately.

Danger of aspiration.

In case of vomiting, keep head low so that the stomach content does not reach the lungs.

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

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

The following may occur:

Product removes fat.

Dermatitis (skin inflammation)

Ingestion:

Danger of aspiration.

Lung damage

Oedema of the lungs

Inhalation:

Irritation of the respiratory tract

Dizziness



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Headaches

Effects/damages the central nervous system

Unconsciousness

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

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

Indications for the physician:

Ingestion:

Do not feed fats, oils or milk.

Activated carbon

Gastric lavage (stomach washing) only under endotracheal intubation.

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## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

#### **Suitable extinguishing media**

CO<sub>2</sub>

Extinguishment powder

Water jet spray

Alcohol resistant foam

#### **Unsuitable extinguishing media**

High volume water jet

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

In case of fire the following can develop:

Oxides of nitrogen

Oxides of carbon

Hydrocarbons

Toxic pyrolysis products.

Explosive vapour/air or gas/air mixtures.

Dangerous vapours heavier than air.

In case of spreading near the ground, flashback to distance sources of ignition is possible.

### **5.3 Advice for firefighters**

For personal protective equipment see Section 8.

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary.

Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.

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

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

#### **6.1.1 For non-emergency personnel**

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.

Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Remove possible causes of ignition - do not smoke.



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Ensure sufficient supply of air.

Avoid inhalation, and contact with eyes or skin.

If applicable, caution - risk of slipping.

#### **6.1.2 For emergency responders**

See section 8 for suitable protective equipment and material specifications.

#### **6.2 Environmental precautions**

Prevent from entering drainage system.

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent surface and ground-water infiltration, as well as ground penetration.

If accidental entry into drainage system occurs, inform responsible authorities.

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

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13.

Ensure sufficient supply of air.

#### **6.4 Reference to other sections**

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

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

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

### **7.1 Precautions for safe handling**

#### **7.1.1 General recommendations**

Avoid aerosol formation.

Avoid inhalation of the vapours.

Ensure good ventilation.

If applicable, suction measures at the workstation or on the processing machine necessary.

Keep away from sources of ignition - Do not smoke.

Take precautions against electrostatic charges.

Use explosion-proof equipment.

Avoid contact with eyes or skin.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

#### **7.1.2 Notes on general hygiene measures at the workplace**

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

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

Keep out of access to unauthorised individuals.

Store product closed and only in original packing.

Not to be stored in gangways or stair wells.

Solvent resistant floor

Do not store with flammable or self-igniting materials.

Observe special storage conditions.

Store cool.

Protect from direct sunlight and warming.

Store in a well ventilated place.

Store in a dry place.



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### 7.3 Specific end use(s)





No information available at present.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40):

1000 mg/m<sup>3</sup>

|                                                                                     |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                     |
|-------------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
|    | <b>Chemical Name</b>   | Naphtha (petroleum), hydrotreated light                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Content</b><br>%:50-70                                           |
|                                                                                     | WEL-TWA:               | 800 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | WEL-STEL: ---                                                       |
|                                                                                     | Monitoring procedures: | <ul style="list-style-type: none"> <li>- Draeger - Hydrocarbons 0,1%/c (81 03 571)</li> <li>- Draeger - Hydrocarbons 2/a (81 03 581)</li> <li>- Compur - KITA-187 S (551 174)</li> </ul>                                                                                                                                                                                                                                                                                                            |                                                                     |
|                                                                                     | BMGV:                  | ---                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Other information: (OEL acc. to RCP-method, paragraphs 84-87, EH40) |
|  | <b>Chemical Name</b>   | Naphtha (petroleum), hydrotreated light                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Content</b><br>%:30-40                                           |
|                                                                                     | WEL-TWA:               | 1800 mg/m <sup>3</sup> (iso-hexane)                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | WEL-STEL: ---                                                       |
|                                                                                     | Monitoring procedures: | <ul style="list-style-type: none"> <li>- Compur - KITA-187 S (551 174)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                     |
|                                                                                     | BMGV:                  | ---                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Other information: ---                                              |
|  | <b>Chemical Name</b>   | Propan-2-ol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Content %:1-<br/>&lt;5</b>                                       |
|                                                                                     | WEL-TWA:               | 400 ppm (999 mg/m <sup>3</sup> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | WEL-STEL: 500 ppm (1250 mg/m <sup>3</sup> )                         |
|                                                                                     | Monitoring procedures: | <ul style="list-style-type: none"> <li>- Draeger - Alcohol 25/a i-Propanol (81 01 631)</li> <li>- Compur - KITA-122 SA(C) (549 277)</li> <li>- Compur - KITA-150 U (550 382)</li> <li>- DFG (D) (Loesungsmittelgemische), DFG (E) (Solvent mixtures 6) - 2013, 2002 - EU project BC/CEN/ENTR/000/2002-16 card 66-3 (2004)</li> <li>- NIOSH 1400 (ALCOHOLS I) - 1994</li> <li>- NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996</li> <li>- Draeger - Alcohol 100/a (CH 29 701)</li> </ul> |                                                                     |
|                                                                                     | BMGV:                  | ---                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Other information: ---                                              |
|  | <b>Chemical Name</b>   | n-hexane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Content %:1-<br/>&lt;3</b>                                       |
|                                                                                     | WEL-TWA:               | 72 mg/m <sup>3</sup> (20 ppm) (WEL, EU)                                                                                                                                                                                                                                                                                                                                                                                                                                                             | WEL-STEL: ---                                                       |
|                                                                                     | Monitoring procedures: | <ul style="list-style-type: none"> <li>- Draeger - Hexane 10/a (81 03 681)</li> <li>- Compur - KITA-113 SA (549 350)</li> <li>- Compur - KITA-113 SB (549 368)</li> <li>- Compur - KITA-113 SC (503 787)</li> <li>- DFG Meth. Nr. 1 (D) (Loesungsmittelgemische), DFG (E) (Solvent mixtures 1) - 2014, 2002</li> <li>- DFG Meth. Nr. 2 (D) (Loesungsmittelgemische) - 2014</li> </ul>                                                                                                               |                                                                     |



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|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           | <ul style="list-style-type: none"> <li>- DFG Meth. Nr. 6 (D) (Lösungsmittelgemische) - 2014</li> <li>INSHT MTA/MA-029/A92 (Determination of aliphatic hydrocarbons (n-hexane, n-heptane, n-octane, n-nonane) in air - Charcoal tube method / Gas chromatography) - 1992 - EU project</li> <li>- BC/CEN/ENTR/000/2002-16 card 26-1 (2004)</li> <li>- NIOSH 1500 (HYDROCARBONS, BP 36°-216 °C) - 2003</li> <li>NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996</li> <li>NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTIR SPECTROMETRY) - 2016</li> <li>- OSHA PV2248 (n -Hexane) - 1995</li> </ul> |
| BMGV: --- | Other information: ---                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

| <b>Propan-2-ol</b>  |                                                      |                             |            |       |                   |      |
|---------------------|------------------------------------------------------|-----------------------------|------------|-------|-------------------|------|
| Area of application | Exposure route / Environmental compartment           | Effect on health            | Descriptor | Value | Unit              | Note |
|                     | Environment - freshwater                             |                             | PNEC       | 140,9 | mg/l              |      |
|                     | Environment - marine                                 |                             | PNEC       | 140,9 | mg/l              |      |
|                     | Environment - sediment, freshwater                   |                             | PNEC       | 552   | mg/kg dw          |      |
|                     | Environment - sediment, marine                       |                             | PNEC       | 552   | mg/kg dw          |      |
|                     | Environment - soil                                   |                             | PNEC       | 28    | mg/kg dw          |      |
|                     | Environment - sewage treatment plant                 |                             | PNEC       | 2251  | mg/l              |      |
|                     | Environment - water, sporadic (intermittent) release |                             | PNEC       | 140,9 | mg/l              |      |
|                     | Environment - oral (animal feed)                     |                             | PNEC       | 160   | mg/kg feed        |      |
| Consumer            | Human - dermal                                       | Long term, systemic effects | DNEL       | 319   | mg/kg bw/day      |      |
| Consumer            | Human - inhalation                                   | Long term, systemic effects | DNEL       | 89    | mg/m <sup>3</sup> |      |
| Consumer            | Human - oral                                         | Long term, systemic effects | DNEL       | 26    | mg/kg bw/day      |      |
| Workers / employees | Human - dermal                                       | Long term, systemic effects | DNEL       | 888   | mg/kg bw/day      |      |
| Workers / employees | Human - inhalation                                   | Long term, systemic effects | DNEL       | 500   | mg/m <sup>3</sup> |      |

| <b>n-hexane</b>     |                                            |                  |            |       |      |      |
|---------------------|--------------------------------------------|------------------|------------|-------|------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |





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|                     |                    |                             |      |     |                   |  |
|---------------------|--------------------|-----------------------------|------|-----|-------------------|--|
| Consumer            | Human - inhalation | Long term, systemic effects | DNEL | 16  | mg/m <sup>3</sup> |  |
| Consumer            | Human - dermal     | Long term, systemic effects | DNEL | 5,3 | mg/kg bw/day      |  |
| Consumer            | Human - oral       | Long term, systemic effects | DNEL | 4   | mg/kg bw/day      |  |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 75  | mg/m <sup>3</sup> |  |
| Workers / employees | Human - dermal     | Long term, systemic effects | DNEL | 11  | mg/kg bw/day      |  |

Ⓒ WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). (8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage. \*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision. (13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

## 8.2 Exposure controls

### 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

### 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

Tight fitting protective goggles with side protection (EN 166).



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Skin protection - Hand protection:

Solvent resistant protective gloves (EN ISO 374).

Recommended

Protective gloves in butyl rubber (EN ISO 374).

Minimum layer thickness in mm:

$\geq 0,7$

Permeation time (penetration time) in minutes:

120 - 240

Protective hand cream recommended.

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.

The recommended maximum wearing time is 50% of breakthrough time.

Skin protection - Other:

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:

If OES or MEL is exceeded.

Gas mask filter A (EN 14387), code colour brown

At high concentrations:

Respiratory protection appliance (insulation device) (e.g. EN 137 or EN 138)

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

If applicable, these are included in the individual protective measures (eye/face protection, skin protection, respiratory protection).

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

### **8.2.3 Environmental exposure controls**

No information available at present.

---

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

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

Physical state:

Liquid

Colour:

Colourless

Odour:

Solvent

Melting point/freezing point:

There is no information available on this parameter.



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|                                                           |                                                                                               |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Boiling point or initial boiling point and boiling range: | 76 °C                                                                                         |
| Flammability:                                             | Flammable                                                                                     |
| Lower explosion limit:                                    | 0,7 Vol-%                                                                                     |
| Upper explosion limit:                                    | 11,5 Vol-%                                                                                    |
| Flash point:                                              | -1 °C                                                                                         |
| Auto-ignition temperature:                                | 245 °C                                                                                        |
| Decomposition temperature:                                | There is no information available on this parameter.                                          |
| pH:                                                       | There is no information available on this parameter.                                          |
| Kinematic viscosity:                                      | 0,423 mPas (20°C, Dynamic viscosity )                                                         |
| Kinematic viscosity:                                      | <7 mm <sup>2</sup> /s (40°C)                                                                  |
| Solubility:                                               | 290 g/l (20°C)                                                                                |
| Partition coefficient n-octanol/water (log value):        | Does not apply to mixtures.                                                                   |
| Vapour pressure:                                          | 100 hPa (20°C)                                                                                |
| Density and/or relative density:                          | 0,805 g/cm <sup>3</sup> (20°C)                                                                |
| Relative vapour density:                                  | Vapours heavier than air.                                                                     |
| Particle characteristics:                                 | Does not apply to liquids.                                                                    |
| <b>9.2 Other information</b>                              |                                                                                               |
| Explosives:                                               | Possible build up of explosive/highly flammable vapour/air mixture. Product is not explosive. |
| Oxidising liquids:                                        | There is no information available on this parameter.                                          |

---

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

See also Subsection 10.2 to 10.6.

The product has not been tested.

### 10.2 Chemical stability

See also Subsection 10.1 to 10.6.

Stable with proper storage and handling.

### 10.3 Possibility of hazardous reactions

See also Subsection 10.1 to 10.6.

No decomposition if used as intended.

### 10.4 Conditions to avoid

See also section 7.

Heating, open flame, ignition sources

### 10.5 Incompatible materials

See also section 7.

No dangerous reactions are known.

Avoid contact with strong oxidizing agents.

### 10.6 Hazardous decomposition products

See also Subsection 10.1 to 10.5.

See also section 5.2

No decomposition when used as directed.

---

## SECTION 11: Toxicological information

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

Possibly more information on health effects, see Section 2.1 (classification).



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| <b>PVC CLEANER S 20 1000 ML</b>                               |                 |              |             |                 |                    |              |
|---------------------------------------------------------------|-----------------|--------------|-------------|-----------------|--------------------|--------------|
| <b>Art.: 9281840</b>                                          |                 |              |             |                 |                    |              |
| <b>Toxicity / effect</b>                                      | <b>Endpoint</b> | <b>Value</b> | <b>Unit</b> | <b>Organism</b> | <b>Test method</b> | <b>Notes</b> |
| Acute toxicity, by oral route:                                |                 |              |             |                 |                    | n.d.a.       |
| Acute toxicity, by dermal route:                              |                 |              |             |                 |                    | n.d.a.       |
| Acute toxicity, by inhalation:                                |                 |              |             |                 |                    | n.d.a.       |
| Skin corrosion/irritation:                                    |                 |              |             |                 |                    | n.d.a.       |
| Serious eye damage/irritation:                                |                 |              |             |                 |                    | n.d.a.       |
| Respiratory or skin sensitisation:                            |                 |              |             |                 |                    | n.d.a.       |
| Germ cell mutagenicity:                                       |                 |              |             |                 |                    | n.d.a.       |
| Carcinogenicity:                                              |                 |              |             |                 |                    | n.d.a.       |
| Reproductive toxicity:                                        |                 |              |             |                 |                    | n.d.a.       |
| Specific target organ toxicity - single exposure (STOT-SE):   |                 |              |             |                 |                    | n.d.a.       |
| Specific target organ toxicity - repeated exposure (STOT-RE): |                 |              |             |                 |                    | n.d.a.       |
| Aspiration hazard:                                            |                 |              |             |                 |                    | n.d.a.       |
| Symptoms:                                                     |                 |              |             |                 |                    | n.d.a.       |

| <b>Naphtha (petroleum), hydrotreated light</b> |                 |              |             |                 |                    |                 |
|------------------------------------------------|-----------------|--------------|-------------|-----------------|--------------------|-----------------|
| <b>Toxicity / effect</b>                       | <b>Endpoint</b> | <b>Value</b> | <b>Unit</b> | <b>Organism</b> | <b>Test method</b> | <b>Notes</b>    |
| Acute toxicity, by oral route:                 | LD50            | >2000        | mg/kg       | Rat             |                    |                 |
| Acute toxicity, by dermal route:               | LD50            | >2000        | mg/kg       | Rabbit          |                    |                 |
| Acute toxicity, by inhalation:                 | LD50            | >20          | mg/l/4h     | Rat             |                    |                 |
| Serious eye damage/irritation:                 |                 |              |             |                 |                    | Not irritant    |
| Respiratory or skin sensitisation:             |                 |              |             |                 |                    | Not sensitizing |
| Aspiration hazard:                             |                 |              |             |                 |                    | Yes             |

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|           |  |  |  |  |  |                                                                                                                                                      |
|-----------|--|--|--|--|--|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms: |  |  |  |  |  | drowsiness, unconsciousness, heart/circulatory disorders, headaches, cramps, drowsiness, mucous membrane irritation, dizziness, nausea and vomiting. |
|-----------|--|--|--|--|--|------------------------------------------------------------------------------------------------------------------------------------------------------|

| <b>Naphtha (petroleum), hydrotreated light</b> |          |       |      |          |             |                 |
|------------------------------------------------|----------|-------|------|----------|-------------|-----------------|
| Toxicity / effect                              | Endpoint | Value | Unit | Organism | Test method | Notes           |
| Serious eye damage/irritation:                 |          |       |      |          |             | Not irritant    |
| Respiratory or skin sensitisation:             |          |       |      |          |             | Not sensitising |
| Aspiration hazard:                             |          |       |      |          |             | Yes             |

| <b>Propan-2-ol</b>                 |          |             |         |                        |                                              |                   |
|------------------------------------|----------|-------------|---------|------------------------|----------------------------------------------|-------------------|
| Toxicity / effect                  | Endpoint | Value       | Unit    | Organism               | Test method                                  | Notes             |
| Acute toxicity, by oral route:     | LD50     | 4570-5840   | mg/kg   | Rat                    | OECD 401 (Acute Oral Toxicity)               |                   |
| Acute toxicity, by dermal route:   | LD50     | 12800-13900 | mg/kg   | Rabbit                 | OECD 402 (Acute Dermal Toxicity)             |                   |
| Acute toxicity, by inhalation:     | LC50     | > 25        | mg/l/6h | Rat                    | OECD 403 (Acute Inhalation Toxicity)         | Vapours           |
| Acute toxicity, by inhalation:     | LC50     | 46600       | mg/l/4h | Rat                    |                                              | Aerosol           |
| Skin corrosion/irritation:         |          |             |         | Rabbit                 | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant      |
| Serious eye damage/irritation:     |          |             |         | Rabbit                 | OECD 405 (Acute Eye Irritation/Corrosion)    | Eye Irrit. 2      |
| Respiratory or skin sensitisation: |          |             |         | Guinea pig             | OECD 406 (Skin Sensitisation)                | No (skin contact) |
| Germ cell mutagenicity:            |          |             |         | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test)   | Negative          |



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|                                                                         |       |      |       |                        |                                                                |                                                                                                                         |
|-------------------------------------------------------------------------|-------|------|-------|------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Germ cell mutagenicity:                                                 |       |      |       | Mouse                  | OECD 474 (Mammalian Erythrocyte Micronucleus Test)             | Negative                                                                                                                |
| Germ cell mutagenicity:                                                 |       |      |       |                        | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)          | Negative                                                                                                                |
| Germ cell mutagenicity:                                                 |       |      |       | Salmonella typhimurium | (Ames-Test)                                                    | Negative                                                                                                                |
| Carcinogenicity:                                                        |       |      |       |                        |                                                                | Negative                                                                                                                |
| Specific target organ toxicity - single exposure (STOT-SE):             |       |      |       |                        |                                                                | STOT SE 3, H336                                                                                                         |
| Specific target organ toxicity - repeated exposure (STOT-RE):           |       |      |       |                        |                                                                | Target organ(s): liver                                                                                                  |
| Aspiration hazard:                                                      |       |      |       |                        |                                                                | No                                                                                                                      |
| Symptoms:                                                               |       |      |       |                        |                                                                | breathing difficulties, unconsciousness, vomiting, headaches, fatigue, dizziness, nausea, eyes, reddened, watering eyes |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral:     | NOAEL | 900  | mg/kg | Rat                    | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) |                                                                                                                         |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEL | 5000 | ppm   | Rat                    |                                                                | Vapours (OECD 451)                                                                                                      |

| <b>n-hexane</b>                  |                 |              |             |                 |                                |              |
|----------------------------------|-----------------|--------------|-------------|-----------------|--------------------------------|--------------|
| <b>Toxicity / effect</b>         | <b>Endpoint</b> | <b>Value</b> | <b>Unit</b> | <b>Organism</b> | <b>Test method</b>             | <b>Notes</b> |
| Acute toxicity, by oral route:   | LD50            | 16000        | mg/kg       | Rat             | OECD 401 (Acute Oral Toxicity) |              |
| Acute toxicity, by dermal route: | LD50            | >2000        | mg/kg       | Rabbit          |                                |              |

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|                                |      |       |        |                        |             |                                                                                                                                                              |
|--------------------------------|------|-------|--------|------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute toxicity, by inhalation: | LC50 | 171,6 | mg/l/h | Rat                    |             |                                                                                                                                                              |
| Germ cell mutagenicity:        |      |       |        | Salmonella typhimurium | (Ames-Test) | Negative                                                                                                                                                     |
| Aspiration hazard:             |      |       |        |                        |             | Yes                                                                                                                                                          |
| Symptoms:                      |      |       |        |                        |             | drowsiness, unconsciousness, blisters, cornea opacity, coughing, headaches, cramps, drowsiness, mucous membrane irritation, dizziness, watering eyes, nausea |

| <b>Ethanol, 2,2'-iminobis-, N-C12-18-alkyl derivs.</b> |          |           |       |            |                                                        |                            |
|--------------------------------------------------------|----------|-----------|-------|------------|--------------------------------------------------------|----------------------------|
| Toxicity / effect                                      | Endpoint | Value     | Unit  | Organism   | Test method                                            | Notes                      |
| Acute toxicity, by oral route:                         | LD50     | 1300-1700 | mg/kg | Rat        | OECD 425 (Acute Oral Toxicity - Up-and-Down Procedure) |                            |
| Skin corrosion/irritation:                             |          |           |       | Rabbit     | OECD 404 (Acute Dermal Irritation/Corrosion)           | Skin Corr. 1C              |
| Serious eye damage/irritation:                         |          |           |       | Rabbit     | OECD 405 (Acute Eye Irritation/Corrosion)              | Corrosive                  |
| Respiratory or skin sensitisation:                     |          |           |       | Guinea pig | OECD 406 (Skin Sensitisation)                          | No (skin contact)          |
| Symptoms:                                              |          |           |       |            |                                                        | mucous membrane irritation |

## 11.2. Information on other hazards

| <b>PVC CLEANER S 20 1000 ML</b> |          |       |      |          |             |       |
|---------------------------------|----------|-------|------|----------|-------------|-------|
| <b>Art.: 9281840</b>            |          |       |      |          |             |       |
| Toxicity / effect               | Endpoint | Value | Unit | Organism | Test method | Notes |





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|                                          |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------------|--|--|--|--|--|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12.2. Persistence and degradability:     |  |  |  |  |  |  | The surfactant(s) contained in this mixture complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer . |
| 12.3. Bioaccumulative potential:         |  |  |  |  |  |  | n.d.a.                                                                                                                                                                                                                                                                                                                                                                            |
| 12.4. Mobility in soil:                  |  |  |  |  |  |  | n.d.a.                                                                                                                                                                                                                                                                                                                                                                            |
| 12.5. Results of PBT and vPvB assessment |  |  |  |  |  |  | n.d.a.                                                                                                                                                                                                                                                                                                                                                                            |
| 12.6. Endocrine disrupting properties:   |  |  |  |  |  |  | Does not apply to mixtures.                                                                                                                                                                                                                                                                                                                                                       |



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|                              |     |  |  |  |  |  |                                                                       |
|------------------------------|-----|--|--|--|--|--|-----------------------------------------------------------------------|
| 12.7. Other adverse effects: |     |  |  |  |  |  | No information available on other adverse effects on the environment. |
| Other information:           | AOX |  |  |  |  |  | According to the recipe, contains no AOX.                             |
| Other information:           | DOC |  |  |  |  |  | DOC-elimination degree(comp lexing organic substance)>= 80%/28d: n.a. |

#### Naphtha (petroleum), hydrotreated light

| Toxicity / effect                | Endpoint | Time | Value   | Unit | Organism      | Test method | Notes |
|----------------------------------|----------|------|---------|------|---------------|-------------|-------|
| 12.1. Toxicity to daphnia:       | EC50     | 48h  | 3       | mg/l | Daphnia magna |             |       |
| 12.3. Bioaccumulative potential: | Log Pow  |      | 3,4-5,2 |      |               |             |       |

#### Propan-2-ol

| Toxicity / effect                    | Endpoint | Time | Value | Unit | Organism                | Test method                                                        | Notes                 |
|--------------------------------------|----------|------|-------|------|-------------------------|--------------------------------------------------------------------|-----------------------|
| 12.3. Bioaccumulative potential:     | BCF      |      | 3,2   |      |                         |                                                                    | Low                   |
| 12.1. Toxicity to fish:              | LC50     | 96h  | >100  | mg/l | Leuciscus idus          |                                                                    |                       |
| 12.1. Toxicity to fish:              | LC50     | 96h  | 1400  | mg/l | Lepomis macrochirus     |                                                                    |                       |
| 12.1. Toxicity to daphnia:           | EC50     | 48h  | 2285  | mg/l | Daphnia magna           |                                                                    |                       |
| 12.1. Toxicity to daphnia:           | EC50     | 16d  | 141   | mg/l | Daphnia magna           |                                                                    |                       |
| 12.1. Toxicity to algae:             | EC50     | 72h  | >100  | mg/l | Desmodesmus subspicatus |                                                                    |                       |
| 12.2. Persistence and degradability: |          | 21d  | 95    | %    |                         | OECD 301 E (Ready Biodegradability - Modified OECD Screening Test) | Readily biodegradable |



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|                                          |         |     |       |      |                    |                                                                                  |                                     |
|------------------------------------------|---------|-----|-------|------|--------------------|----------------------------------------------------------------------------------|-------------------------------------|
| 12.2. Persistence and degradability:     |         |     | 99,9  | %    |                    | OECD 303 A (Simulation Test - Aerobic Sewage Treatment - Activated Sludge Units) | Readily biodegradable               |
| 12.3. Bioaccumulative potential:         | Log Pow |     | 0,05  |      |                    | OECD 107 (Partition Coefficient (n-octanol/water) - Shake Flask Method)          | Slight                              |
| 12.4. Mobility in soil:                  | Koc     |     | 1,1   |      |                    |                                                                                  | Expert judgement                    |
| 12.5. Results of PBT and vPvB assessment |         |     |       |      |                    |                                                                                  | No PBT substance, No vPvB substance |
| Toxicity to bacteria:                    | EC50    |     | >1000 | mg/l | activated sludge   |                                                                                  |                                     |
| Toxicity to bacteria:                    | EC10    | 16h | 1050  | mg/l | Pseudomonas putida |                                                                                  |                                     |
| Other information:                       | ThOD    |     | 2,4   | g/g  |                    |                                                                                  |                                     |
| Other information:                       | BOD5    |     | 53    | %    |                    |                                                                                  |                                     |
| Other information:                       | COD     |     | 96    | %    |                    |                                                                                  | References                          |
| Other information:                       | COD     |     | 2,4   | g/g  |                    |                                                                                  |                                     |
| Other information:                       | BOD     |     | 1171  | mg/g |                    |                                                                                  |                                     |

| <b>n-hexane</b>                          |          |      |       |      |                     |                          |                                     |
|------------------------------------------|----------|------|-------|------|---------------------|--------------------------|-------------------------------------|
| Toxicity / effect                        | Endpoint | Time | Value | Unit | Organism            | Test method              | Notes                               |
| 12.1. Toxicity to fish:                  | LC50     | 96h  | 2,5   | mg/l | Pimephales promelas | U.S. EPA ECOTOX Database |                                     |
| 12.1. Toxicity to daphnia:               | EC50     | 48h  | 2,1   | mg/l | Daphnia magna       |                          | References                          |
| 12.3. Bioaccumulative potential:         |          |      |       |      |                     |                          | Not to be expected                  |
| 12.5. Results of PBT and vPvB assessment |          |      |       |      |                     |                          | No PBT substance, No vPvB substance |

| <b>Ethanol, 2,2'-iminobis-, N-C12-18-alkyl derivs.</b> |          |      |       |      |          |             |       |
|--------------------------------------------------------|----------|------|-------|------|----------|-------------|-------|
| Toxicity / effect                                      | Endpoint | Time | Value | Unit | Organism | Test method | Notes |



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|                                      |      |     |       |      |                         |                                                          |                       |
|--------------------------------------|------|-----|-------|------|-------------------------|----------------------------------------------------------|-----------------------|
| 12.2. Persistence and degradability: |      | 28d | >60   | %    |                         | OECD 301 B (Ready Biodegradability - Co2 Evolution Test) | Readily biodegradable |
| 12.3. Bioaccumulative potential:     | BCF  |     | 3,162 |      |                         |                                                          |                       |
| 12.1. Toxicity to fish:              | LC50 | 96h | 0,1   | mg/l | Brachydanio rerio       | OECD 203 (Fish, Acute Toxicity Test)                     |                       |
| 12.1. Toxicity to daphnia:           | EC50 | 48h | 0,84  | mg/l | Daphnia magna           | OECD 202 (Daphnia sp. Acute Immobilisation Test)         |                       |
| 12.1. Toxicity to algae:             | EC50 | 72h | 0,107 | mg/l | Desmodesmus subspicatus | OECD 201 (Alga, Growth Inhibition Test)                  |                       |

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)

07 01 04 other organic solvents, washing liquids and mother liquors

14 06 03 other solvents and solvent mixtures

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

Implement substance recycling.

E.g. suitable incineration plant.

Do not dispose of with household waste.

#### For contaminated packing material

Pay attention to local and national official regulations.

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

Residues may present a risk of explosion.

Do not perforate, cut up or weld uncleaned container.

## SECTION 14: Transport information



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### General statements

14.1. UN number or ID number: 1993

#### Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:

UN 1993 FLAMMABLE LIQUID, N.O.S. (NAPHTHA (PETROLEUM),HEXANES)

14.3. Transport hazard class(es): 3

14.4. Packing group: II

Classification code: F1

LQ: 1 L

14.5. Environmental hazards: environmentally hazardous

Tunnel restriction code: D/E

#### Transport by sea (IMDG-code)

14.2. UN proper shipping name:

FLAMMABLE LIQUID, N.O.S. (NAPHTHA (PETROLEUM),HEXANES)

14.3. Transport hazard class(es): 3

14.4. Packing group: II

EmS: F-E, S-E

Marine Pollutant: Yes

14.5. Environmental hazards: environmentally hazardous

#### Transport by air (IATA)

14.2. UN proper shipping name:

Flammable liquid, n.o.s. (NAPHTHA (PETROLEUM),HEXANES)

14.3. Transport hazard class(es): 3

14.4. Packing group: II

14.5. Environmental hazards: Not applicable

#### 14.6. Special precautions for user

Persons employed in transporting dangerous goods must be trained.

All persons involved in transporting must observe safety regulations.

Precautions must be taken to prevent damage.

#### 14.7. Maritime transport in bulk according to IMO instruments

Freighted as packaged goods rather than in bulk, therefore not applicable.

Minimum amount regulations have not been taken into account.

Danger code and packing code on request.

Comply with special provisions.



## SECTION 15: Regulatory information

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

Observe restrictions:

Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)!

Comply with trade association/occupational health regulations.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be considered according to storage, handling etc.):



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| Hazard categories | Notes to Annex I | Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Lower-tier requirements | Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Upper-tier requirements |
|-------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| P5c               |                  | 5000                                                                                                                                  | 50000                                                                                                                                 |
| E2                |                  | 200                                                                                                                                   | 500                                                                                                                                   |

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2010/75/EU (VOC): 99,5 %  
**REGULATION (EC) No 648/2004**  
 30 % and more  
 aliphatic hydrocarbons  
 less than 5 %  
 non-ionic surfactants

### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

## SECTION 16: Other information

Revised sections: 1-16  
 Employee training in handling dangerous goods is required.  
 These details refer to the product as it is delivered.  
 Employee instruction/training in handling hazardous materials is required.

### Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

| Classification in accordance with regulation (EC) No. 1272/2008 (CLP) | Evaluation method used                             |
|-----------------------------------------------------------------------|----------------------------------------------------|
| Flam. Liq. 2, H225                                                    | Classification based on test data.                 |
| Skin Irrit. 2, H315                                                   | Classification according to calculation procedure. |
| Asp. Tox. 1, H304                                                     | Classification according to calculation procedure. |
| STOT SE 3, H336                                                       | Classification according to calculation procedure. |
| Aquatic Chronic 2, H411                                               | Classification according to calculation procedure. |

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

H314 Causes severe skin burns and eye damage.  
 H361f Suspected of damaging fertility.  
 H225 Highly flammable liquid and vapour.  
 H226 Flammable liquid and vapour.  
 H302 Harmful if swallowed.  
 H304 May be fatal if swallowed and enters airways.  
 H315 Causes skin irritation.  
 H318 Causes serious eye damage.



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H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
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.  
H411 Toxic to aquatic life with long lasting effects.

Flam. Liq. — Flammable liquid  
Skin Irrit. — Skin irritation  
Asp. Tox. — Aspiration hazard  
STOT SE — Specific target organ toxicity - single exposure - narcotic effects  
Aquatic Chronic — Hazardous to the aquatic environment - chronic  
Eye Irrit. — Eye irritation  
Repr. — Reproductive toxicity  
STOT RE — Specific target organ toxicity - repeated exposure  
Acute Tox. — Acute toxicity - oral  
Skin Corr. — Skin corrosion  
Eye Dam. — Serious eye damage  
Aquatic Acute — Hazardous to the aquatic environment - acute

**Key literature references and sources for data:**

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.  
Guidelines for the preparation of safety data sheets as amended (ECHA).  
Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).  
Safety data sheets for the constituent substances.  
ECHA Homepage - Information about chemicals.  
GESTIS Substance Database (Germany).  
German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).  
EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.  
National Lists of Occupational Exposure Limits for each country as amended.  
Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

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**Any abbreviations and acronyms used in this document:**

acc., acc. to according, according to  
ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)  
AOX Adsorbable organic halogen compounds  
approx. approximately  
Art., Art. no. Article number  
ASTM ASTM International (American Society for Testing and Materials)  
ATE Acute Toxicity Estimate  
BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)  
BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)



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BCF Bioconcentration factor  
BSEF The International Bromine Council  
bw body weight  
CAS Chemical Abstracts Service  
CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)  
CMR carcinogenic, mutagenic, reproductive toxic  
DMEL Derived Minimum Effect Level  
DNEL Derived No Effect Level  
DOC Dissolved organic carbon  
dw dry weight  
e.g. for example (abbreviation of Latin 'exempli gratia'), for instance  
EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants)  
EC European Community  
ECHA European Chemicals Agency  
ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect  
EEC European Economic Community  
EINECS European Inventory of Existing Commercial Chemical Substances  
ELINCS European List of Notified Chemical Substances  
EN European Norms  
EPA United States Environmental Protection Agency (United States of America)  
ErCx, E $\mu$ Cx, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants)  
etc. et cetera  
EU European Union  
EVAL Ethylene-vinyl alcohol copolymer  
Fax. Fax number  
gen. general  
GHS Globally Harmonized System of Classification and Labelling of Chemicals  
GWP Global warming potential  
Koc Adsorption coefficient of organic carbon in the soil  
Kow octanol-water partition coefficient  
IARC International Agency for Research on Cancer  
IATA International Air Transport Association  
IBC (Code) International Bulk Chemical (Code)  
IMDG-code International Maritime Code for Dangerous Goods  
incl. including, inclusive  
IUCLID International Uniform Chemical Information Database  
IUPAC International Union for Pure Applied Chemistry  
LC50 Lethal Concentration to 50 % of a test population  
LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)  
Log Koc Logarithm of adsorption coefficient of organic carbon in the soil  
Log Kow, Log Pow Logarithm of octanol-water partition coefficient  
LQ Limited Quantities  
MARPOL International Convention for the Prevention of Marine Pollution from Ships  
n.a. not applicable  
n.av. not available  
n.c. not checked  
n.d.a. no data available  
NIOSH National Institute for Occupational Safety and Health (USA)  
NLP No-longer-Polymer





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NOEC, NOEL No Observed Effect Concentration/Level

OECD Organisation for Economic Co-operation and Development

org. organic

OSHA Occupational Safety and Health Administration (USA)

PBT persistent, bioaccumulative and toxic

PE Polyethylene

PNEC Predicted No Effect Concentration

ppm parts per million

PVC Polyvinylchloride

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)

REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SVHC Substances of Very High Concern

Tel. Telephone

TOC Total organic carbon

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.