

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

- 1.1 Product identifier**  
**Trade name** PROMAT CHEMICALS KLEB-UND DICHTSTOFFENTFERNER - 400 ml  
**Unique formula identifier (UFI)** PU70-70MQ-P00U-10SC
- Article number** 4000 354120
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**  
**Relevant identified uses** General use  
Paint remover  
Cleaning agent
- 1.3 Details of the supplier of the safety data sheet**  
NORDWEST Handel AG  
Robert-Schuman-Straße 17  
44263 Dortmund  
Germany  
Telephone: +49 (0)231 2222-3001  
Telefax: +49 (0)231 2222-3099  
e-mail: sdb@nordwest.com  
Website: www.nordwest.com  
**e-mail (competent person)** sdb@nordwest.com
- 1.4 Emergency telephone number**

| Poison centre |                                                                                                                                                   |                  |                                        |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------------------------------------|
| Country       | Name                                                                                                                                              | Postal code/city | Telephone                              |
| Austria       | Vergiftungsinformationszentrale (VIZ)                                                                                                             |                  | <b>+43 (0)1 406 43 43</b>              |
| Germany       | Gemeinsamen Giftinformationszentrum (GGIZ) der Laender Mecklenburg-Vorpommern, Sachsen, Sachsen-Anhalt und Thueringen c/o HE-LIOS Klinikum Erfurt | 99089 Erfurt     | <b>+49-361-730730</b>                  |
| Switzerland   | Tox Info Suisse                                                                                                                                   |                  | <b>+145, 24h oder +41 44 251 51 51</b> |

## SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture**  
**Classification according to Regulation (EC) No 1272/2008 (CLP)**

| Section | Hazard class                                                                    | Category | Hazard class and category | Hazard statement |
|---------|---------------------------------------------------------------------------------|----------|---------------------------|------------------|
| 2.3     | aerosols                                                                        | 1        | Aerosol 1                 | H222,H229        |
| 3.8D    | specific target organ toxicity - single exposure (narcotic effects, drowsiness) | 3        | STOT SE 3                 | H336             |

For full text of abbreviations: see SECTION 16.

- 2.2 Label elements**  
**Labelling according to Regulation (EC) No 1272/2008 (CLP)**

**Signal word** danger

**Pictograms**

GHS02, GHS07



**Hazard statements**

H222 Extremely flammable aerosol.  
H229 Pressurised container: May burst if heated.  
H336 May cause drowsiness or dizziness.

**Precautionary statements**

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.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/eye protection.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

**Supplemental hazard information**

EUH066 Repeated exposure may cause skin dryness or cracking.

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**Hazardous ingredients for labelling** N-butyl acetate

## 2.3 Other hazards

### Results of PBT and vPvB assessment

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

### Endocrine disrupting properties

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

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not relevant (mixture)

### 3.2 Mixtures

#### Description of the mixture

| Identifier                                                                                                                 | Name of substance | Wt%       | Classification acc. to GHS                 | Pictograms                                                                                                                                                                 | Notes               | Specific Conc. Limits |
|----------------------------------------------------------------------------------------------------------------------------|-------------------|-----------|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|
| CAS No<br>123-86-4<br><br>EC No<br>204-658-1<br><br>Index No<br>607-025-00-1<br><br>REACH Reg. No<br>01-2119485493-29-xxxx | N-butyl acetate   | 50 – < 75 | Flam. Liq. 3 / H226<br>STOT SE 3 / H336    |       | GHS-HC<br>IOELV     |                       |
| CAS No<br>106-97-8<br><br>EC No<br>203-448-7<br><br>Index No<br>601-004-01-8                                               | butane            | 10 – < 25 | Flam. Gas 1B / H221<br>Press. Gas C / H280 |   | C<br>GHS-HC<br>U(b) |                       |
| CAS No<br>74-98-6<br><br>EC No<br>200-827-9<br><br>Index No<br>601-003-00-5<br><br>REACH Reg. No<br>01-2119486944-21       | propane           | 10 – < 25 | Flam. Gas 1A / H220<br>Press. Gas L / H280 |   | GHS-HC<br>U(c)      |                       |

#### Notes

- C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
- GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/2008/EC, Annex VI)
- IOELV: Substance with a community indicative occupational exposure limit value
- U(b): The allocation to the group 'compressed gas' is based on the physical state in which the gas is packaged
- U(c): The allocation to the group 'liquefied gas' is based on the physical state in which the gas is packaged

For full text of abbreviations: see SECTION 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General notes

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

#### Following inhalation

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

#### Following skin contact

Wash with plenty of soap and water.

#### Following eye contact

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

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**Following ingestion**

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

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

Narcotic effects.

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

none

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media**

Water spray, BC-powder

**Unsuitable extinguishing media**

Water jet

**5.2 Special hazards arising from the substance or mixture****Hazardous combustion products**Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)**5.3 Advice for firefighters**

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

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Remove persons to safety.

**For emergency responders**

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

**6.2 Environmental precautions**

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

**6.3 Methods and material for containment and cleaning up****Advice on how to contain a spill**

Covering of drains

**Other information relating to spills and releases**

Place in appropriate containers for disposal. Ventilate affected area.

**6.4 Reference to other sections**

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

**SECTION 7: Handling and storage****7.1 Precautions for safe handling****Recommendations****Measures to prevent fire as well as aerosol and dust generation**

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

**Advice on general occupational hygiene**

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

**7.2 Conditions for safe storage, including any incompatibilities****Managing of associated risks****Flammability hazards**

Do not spray on an open flame or other ignition source. Protect from sunlight.

**Packaging compatibilities**

Keep only in original container.

**Storage class (LGK) TRGS 510**

LGK 2 B (aerosol dispensers and lighters)

**7.3 Specific end use(s)**

See section 16 for a general overview.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

| Occupational exposure limit values (Workplace Exposure Limits) |                 |          |            |           |                          |            |                           |                 |                                |          |              |
|----------------------------------------------------------------|-----------------|----------|------------|-----------|--------------------------|------------|---------------------------|-----------------|--------------------------------|----------|--------------|
| Country                                                        | Name of agent   | CAS No   | Identifier | TWA [ppm] | TWA [mg/m <sup>3</sup> ] | STEL [ppm] | STEL [mg/m <sup>3</sup> ] | Ceiling-C [ppm] | Ceiling-C [mg/m <sup>3</sup> ] | Notation | Source       |
| DE                                                             | butane          | 106-97-8 | AGW        | 1,000     | 2,400                    | 4,000      | 9,600                     |                 |                                |          | TRGS 900     |
| DE                                                             | 1-butyl acetate | 123-86-4 | MAK        | 100       | 480                      | 200        | 960                       |                 |                                |          | DFG          |
| DE                                                             | n-butyl acetate | 123-86-4 | AGW        | 62        | 300                      | 124        | 600                       |                 |                                | Y        | TRGS 900     |
| DE                                                             | propane         | 74-98-6  | AGW        | 1,000     | 1,800                    | 4,000      | 7,200                     |                 |                                |          | TRGS 900     |
| EU                                                             | n-butyl acetate | 123-86-4 | IOELV      | 50        | 241                      | 150        | 723                       |                 |                                |          | 2019/1831/EU |

Notation

Ceiling-C  
STEL

TWA

Y

ceiling value is a limit value above which exposure should not occur  
short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)  
time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)  
a risk of developmental toxicity does not need to be expected if the occupational exposure limit value and the biological limit value (BGW) are adhered to

#### Relevant DNELs of components

| Name of substance | CAS No   | Endpoint | Threshold level       | Protection goal, route of exposure | Used in           | Exposure time              |
|-------------------|----------|----------|-----------------------|------------------------------------|-------------------|----------------------------|
| N-butyl acetate   | 123-86-4 | DNEL     | 300 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | chronic - local effects    |
| N-butyl acetate   | 123-86-4 | DNEL     | 600 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | acute - local effects      |
| N-butyl acetate   | 123-86-4 | DNEL     | 11 mg/kg bw/day       | human, dermal                      | worker (industry) | chronic - systemic effects |
| N-butyl acetate   | 123-86-4 | DNEL     | 11 mg/kg bw/day       | human, dermal                      | worker (industry) | acute - systemic effects   |
| N-butyl acetate   | 123-86-4 | DNEL     | 48 mg/m <sup>3</sup>  | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| N-butyl acetate   | 123-86-4 | DNEL     | 960 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | acute - systemic effects   |

#### Relevant PNECs of components

| Name of substance | CAS No   | Endpoint | Threshold level | Organism              | Environmental compartment    | Exposure time                |
|-------------------|----------|----------|-----------------|-----------------------|------------------------------|------------------------------|
| N-butyl acetate   | 123-86-4 | PNEC     | 0.18 mg/l       | aquatic organisms     | freshwater                   | short-term (single instance) |
| N-butyl acetate   | 123-86-4 | PNEC     | 0.018 mg/l      | aquatic organisms     | marine water                 | short-term (single instance) |
| N-butyl acetate   | 123-86-4 | PNEC     | 0.36 mg/l       | aquatic organisms     | water                        | intermittent release         |
| N-butyl acetate   | 123-86-4 | PNEC     | 35.6 mg/l       | aquatic organisms     | sewage treatment plant (STP) | short-term (single instance) |
| N-butyl acetate   | 123-86-4 | PNEC     | 0.981 mg/kg     | aquatic organisms     | freshwater sediment          | short-term (single instance) |
| N-butyl acetate   | 123-86-4 | PNEC     | 0.098 mg/kg     | aquatic organisms     | marine sediment              | short-term (single instance) |
| N-butyl acetate   | 123-86-4 | PNEC     | 0.09 mg/kg      | terrestrial organisms | soil                         | short-term (single instance) |

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## 8.2 Exposure controls

### Appropriate engineering controls

General ventilation.

### Individual protection measures (personal protective equipment)



Personal protective equipment shall be used when the risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.

### Eye/face protection

Use protective eyewear to guard against splash of liquids.

### Skin protection

#### Hand protection

Wear protective gloves. (Splash protection)

#### Type of material

NR: natural rubber, latex, FKM: fluoro-elastomer

#### Breakthrough times of the glove material

>480 minutes (permeation: level 6)

#### Other protection measures

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

### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Full face mask/half mask/quarter mask (EN 136/140).

Type: AX-P2 (gas filters and combined filters against low-boiling point organic compounds and particles, colour code: Brown/White).

### Environmental exposure controls

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

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                                                 |                                                   |
|-----------------------------------------------------------------|---------------------------------------------------|
| <b>Physical state</b>                                           | aerosol (spray aerosol)                           |
| <b>Colour</b>                                                   | colourless                                        |
| <b>Odour</b>                                                    | characteristic                                    |
| <b>Melting point/freezing point</b>                             | -159.4 °C                                         |
| <b>Boiling point or initial boiling point and boiling range</b> | -161.5 °C at 1,013 hPa                            |
| <b>Flammability</b>                                             | flammable aerosol in accordance with GHS criteria |
| <b>Lower and upper explosion limit</b>                          | 5 vol% - 15 vol%                                  |
| <b>Flash point</b>                                              | -87 °C at 1,013 hPa                               |
| <b>Auto-ignition temperature</b>                                | 287 °C                                            |
| <b>Decomposition temperature</b>                                | not relevant                                      |
| <b>pH (value)</b>                                               | not determined                                    |
| <b>Kinematic viscosity</b>                                      | not relevant                                      |
| <b>Solubility(ies)</b>                                          | not determined                                    |

#### Partition coefficient

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

Vapour pressure 4,200 hPa at 20 °C

#### Density and/or relative density

Density 0.7741 g/ml (calculated value)

Relative vapour density information on this property is not available

### 9.2 Other information

**Information with regard to physical hazard classes** there is no additional information

#### Other safety characteristics

Temperature class (EU, acc. to ATEX) T3 (maximum permissible surface temperature on the equipment: 200°C)

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Risk of ignition.

### 10.2 Chemical stability

See below "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

Do not spray on an open flame or other ignition source. Keep away from heat.

#### Hints to prevent fire or explosion

Protect from sunlight.

### 10.5 Incompatible materials

Oxidisers

### 10.6 Hazardous decomposition products

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

## SECTION 11: Toxicological information

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

Test data are not available for the complete mixture.

#### Classification procedure

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

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

##### Acute toxicity

Shall not be classified as acutely toxic.

##### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

##### Serious eye damage/eye irritation

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

##### Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

##### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

##### Carcinogenicity

Shall not be classified as carcinogenic.

##### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

##### Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

##### Specific target organ toxicity - repeated exposure

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

##### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

##### Other information

Repeated exposure may cause skin dryness or cracking.

### 11.2 Information on other hazards

There is no additional information.

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## SECTION 12: Ecological information

### 12.1 Toxicity

Acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment.  
Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV): WGK 1, slightly hazardous to water (Germany)

### 12.2 Persistence and degradability

#### Biodegradation

The relevant substances of the mixture are readily biodegradable.

### 12.3 Bioaccumulative potential

Data are not available.

### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance in a concentration of  $\geq 0,1\%$ .

### 12.6 Endocrine disrupting properties

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

### 12.7 Other adverse effects

Data are not available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Sewage disposal-relevant information

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

#### Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### Relevant provisions relating to waste

##### List of wastes, (Recommendations)

##### Product

07 07 04\* Other organic solvents, washing liquids and mother liquors

##### Product residues

16 05 04\* Gases in pressure containers (including halons) containing hazardous substances

07 07 04\* Other organic solvents, washing liquids and mother liquors

##### Packagings

15 01 04 Metallic packaging

##### Remarks

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

## SECTION 14: Transport information

### 14.1 UN number or ID number

ADR/RID/ADN UN 1950

IMDG-Code UN 1950

ICAO-TI UN 1950

### 14.2 UN proper shipping name

ADR/RID/ADN AEROSOLS

IMDG-Code AEROSOLS

ICAO-TI Aerosols, flammable

### 14.3 Transport hazard class(es)

ADR/RID/ADN 2 (2.1)

IMDG-Code 2.1

ICAO-TI 2.1

### 14.4 Packing group

not assigned

### 14.5 Environmental hazards

non-environmentally hazardous acc. to the dangerous goods regulations

### 14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

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## 14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

### Information for each of the UN Model Regulations

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

Classification code 5F  
Danger label(s) 2.1



Special provisions (SP) 190, 327, 344, 625  
Excepted quantities (EQ) E0  
Limited quantities (LQ) 1 L  
Transport category (TC) 2  
Tunnel restriction code (TRC) D

#### International Maritime Dangerous Goods Code (IMDG) Additional information

Marine pollutant -  
Danger label(s) 2.1



Special provisions (SP) 63, 190, 277, 327, 344, 381, 959  
Excepted quantities (EQ) E0  
Limited quantities (LQ) 1 L  
EmS F-D, S-U  
Stowage category -

#### International Civil Aviation Organization (ICAO-IATA/DGR) Additional information

Danger label(s) 2.1



Special provisions (SP) A145, A167  
Excepted quantities (EQ) E0  
Limited quantities (LQ) 30 kg

## SECTION 15: Regulatory information

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

#### Relevant provisions of the European Union (EU)

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

none of the ingredients are listed

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

none of the ingredients are listed

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

none of the ingredients are listed

##### Water Framework Directive (WFD)

none of the ingredients are listed

##### Regulation on the marketing and use of explosives precursors

none of the ingredients are listed

##### Regulation 648/2004/EC on detergents

| Labelling of contents  |                                 |
|------------------------|---------------------------------|
| Constituents           | Weight % content (or range)     |
| aliphatic hydrocarbons | 15 % or over but less than 30 % |

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

none of the ingredients are listed

##### National regulations (Germany)

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

Wassergefährdungsklasse, WGK (water hazard class) 1 slightly hazardous to water

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

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## Technical instructions on air quality control (Germany)

| Number | Group of substances | Class | Conc.    | Mass flow | Mass concentration   | Notation |
|--------|---------------------|-------|----------|-----------|----------------------|----------|
| 5.2.5  | organic substances  |       | ≥ 25 wt% | 0.5 kg/h  | 50 mg/m <sup>3</sup> | 3)       |

Notation

3) a total mass flow of 0.50 kg/h or a total mass concentration of 50 mg/m<sup>3</sup>, each of which to be indicated as total carbon, shall not be exceeded (except organic particulate matter)

## National inventories

| Country | Inventory  | Status                     |
|---------|------------|----------------------------|
| EU      | REACH Reg. | all ingredients are listed |

Legend

REACH Reg. REACH registered substances

## 15.2 Chemical safety assessment

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

## SECTION 16: Other information

### Indication of changes (revised safety data sheet)

| Section | Former entry (text/value)                                                                                                                                                                                                             | Actual entry (text/value)                                                                                                                                                                                                                                         | Safety-relevant |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 1.1     | Unique formula identifier (UFI): PU70-70MQ-P00U-10SC                                                                                                                                                                                  |                                                                                                                                                                                                                                                                   | yes             |
| 1.1     |                                                                                                                                                                                                                                       | Unique formula identifier (UFI): PU70-70MQ-P00U-10SC                                                                                                                                                                                                              | yes             |
| 1.2     | Uses advised against:<br>do not use for products which come into contact with foodstuffs                                                                                                                                              |                                                                                                                                                                                                                                                                   | yes             |
| 1.3     | Details of the supplier of the safety data sheet:<br>NORDWEST Handel AG<br>Robert-Schuman-Straße 17<br>44263 Dortmund<br>Germany<br><br>Telephone: +49 (0)231 2222-3001<br>Telefax: +49 (0)231 2222-3099<br>Website: www.nordwest.com | Details of the supplier of the safety data sheet:<br>NORDWEST Handel AG<br>Robert-Schuman-Straße 17<br>44263 Dortmund<br>Germany<br><br>Telephone: +49 (0)231 2222-3001<br>Telefax: +49 (0)231 2222-3099<br>e-mail: sdb@nordwest.com<br>Website: www.nordwest.com | yes             |
| 1.3     | e-Mail (competent person): sdb@nordwest.com                                                                                                                                                                                           |                                                                                                                                                                                                                                                                   | yes             |
| 1.3     |                                                                                                                                                                                                                                       | e-mail (competent person): sdb@nordwest.com                                                                                                                                                                                                                       | yes             |
| 1.4     |                                                                                                                                                                                                                                       | Poison centre:<br>change in the listing (table)                                                                                                                                                                                                                   | yes             |
| 2.1     |                                                                                                                                                                                                                                       | Classification according to Regulation (EC) No 1272/2008 (CLP):<br>change in the listing (table)                                                                                                                                                                  | yes             |
| 2.1     | Remarks:<br>For full text of H-phrases: see SECTION 16.                                                                                                                                                                               |                                                                                                                                                                                                                                                                   | yes             |
| 2.1     | Supplemental hazard information                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                   | yes             |
| 2.1     |                                                                                                                                                                                                                                       | Supplemental hazard information:<br>change in the listing (table)                                                                                                                                                                                                 | yes             |
| 2.2     |                                                                                                                                                                                                                                       | Pictograms:<br>change in the listing (table)                                                                                                                                                                                                                      | yes             |
| 2.2     |                                                                                                                                                                                                                                       | Pictograms:<br>change in the listing (table)                                                                                                                                                                                                                      | yes             |

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

**4000 354120 - PROMAT CHEMICALS KLEB-UND DICHTSTOFFENTFERNER - 400 ml**

Version number: GHS 10.0  
Replaces version of: 2023-09-06 (GHS 9)

Revision: 2023-11-13

| Section | Former entry (text/value)                                                                                                                                                       | Actual entry (text/value)                                                                                             | Safety-relevant |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------------|
| 2.2     |                                                                                                                                                                                 | Pictograms:<br>change in the listing (table)                                                                          | yes             |
| 2.2     |                                                                                                                                                                                 | Pictograms:<br>change in the listing (table)                                                                          | yes             |
| 2.2     |                                                                                                                                                                                 | Pictograms:<br>change in the listing (table)                                                                          | yes             |
| 2.2     |                                                                                                                                                                                 | Pictograms:<br>change in the listing (table)                                                                          | yes             |
| 2.2     |                                                                                                                                                                                 | Pictograms:<br>change in the listing (table)                                                                          | yes             |
| 2.2     | Additional labelling requirements                                                                                                                                               |                                                                                                                       | yes             |
| 2.3     | Results of PBT and vPvB assessment:<br>This mixture does not contain any substances that are assessed to be a PBT or a vPvB.                                                    |                                                                                                                       | yes             |
| 2.2     |                                                                                                                                                                                 | Precautionary statements:<br>change in the listing (table)                                                            | yes             |
| 2.3     | Other hazards:<br>Do not mix different cleaners.                                                                                                                                | Other hazards                                                                                                         | yes             |
| 2.3     |                                                                                                                                                                                 | Results of PBT and vPvB assessment:<br>Does not contain a PBT-/vPvB-substance in a concentration of $\geq 0,1\%$ .    | yes             |
| 2.3     |                                                                                                                                                                                 | Endocrine disrupting properties:<br>Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0,1\%$ . | yes             |
| 3.1     |                                                                                                                                                                                 | Substances:<br>Not relevant (mixture)                                                                                 | yes             |
| 3.2     |                                                                                                                                                                                 | Hazardous ingredients acc. to EU regulation:<br>change in the listing (table)                                         | yes             |
| 3.2     |                                                                                                                                                                                 | Description of the mixture:<br>change in the listing (table)                                                          | yes             |
| 4.1     | Following skin contact:<br>Wash with plenty of soap and water. Take off contaminated clothing.                                                                                  | Following skin contact:<br>Wash with plenty of soap and water.                                                        | yes             |
| 4.1     | Following ingestion:<br>Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice. | Following ingestion:<br>Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.             | yes             |
| 6.3     | Advice on how to clean up a spill:<br>Collect spillage (universal binder).                                                                                                      |                                                                                                                       | yes             |
| 7.2     | Incompatible substances or mixtures:<br>Observe hints for combined storage.                                                                                                     |                                                                                                                       | yes             |
| 7.2     | Consideration of other advice:<br>Observe instructions for use. Keep out of reach of children.                                                                                  |                                                                                                                       | yes             |
| 7.2     | • Packaging compatibilities:<br>Only packagings which are approved (e.g. acc. to ADR) may be used.                                                                              | Packaging compatibilities:<br>Keep only in original container.                                                        | yes             |
| 7.2     |                                                                                                                                                                                 | Storage class (LGK) TRGS 510:<br>LGK 2 B (aerosol dispensers and lighters)                                            | yes             |
| 8.1     | National limit values                                                                                                                                                           |                                                                                                                       | yes             |

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according to Regulation (EC) No. 1907/2006 (REACH)

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| Section | Former entry (text/value)                                                                                                                     | Actual entry (text/value)                                                                                                                                                                                                                                                                                                                                     | Safety-relevant |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 8.1     | Occupational exposure limit values (Workplace Exposure Limits)                                                                                |                                                                                                                                                                                                                                                                                                                                                               | yes             |
| 8.1     | Relevant DNELs/DMELs/PNECs and other threshold levels                                                                                         |                                                                                                                                                                                                                                                                                                                                                               | yes             |
| 8.1     | • relevant DNELs of components of the mixture                                                                                                 |                                                                                                                                                                                                                                                                                                                                                               | yes             |
| 8.1     | • relevant PNECs of components of the mixture                                                                                                 |                                                                                                                                                                                                                                                                                                                                                               | yes             |
| 8.2     | Individual protection measures (personal protective equipment):<br>eye protection must be worn safety gloves must be worn do not eat or drink | Individual protection measures (personal protective equipment):<br>eye protection must be worn safety gloves must be worn do not eat or drink<br>Personal protective equipment shall be used when the risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization. | yes             |
| 8.2     | Environmental exposure controls:<br>Use appropriate container to avoid environmental contamination.                                           | Environmental exposure controls:<br>Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.                                                                                                                                                                                                          | yes             |
| 9.1     | Appearance                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                               | yes             |
| 9.1     | Odour:<br>characteristic                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                               | yes             |
| 9.1     | Other physical and chemical parameters                                                                                                        |                                                                                                                                                                                                                                                                                                                                                               | yes             |
| 9.1     |                                                                                                                                               | Odour:<br>characteristic                                                                                                                                                                                                                                                                                                                                      | yes             |
| 9.1     | Melting point/freezing point:<br>-159.4 °C not applicable (aerosol)                                                                           | Melting point/freezing point:<br>-159.4 °C                                                                                                                                                                                                                                                                                                                    | yes             |
| 9.1     | Initial boiling point and boiling range:<br>not applicable (aerosol)                                                                          | Boiling point or initial boiling point and boiling range:<br>-161.5 °C at 1,013 hPa                                                                                                                                                                                                                                                                           | yes             |
| 9.1     | Explosive limits                                                                                                                              | Lower and upper explosion limit:<br>5 vol% - 15 vol%                                                                                                                                                                                                                                                                                                          | yes             |
| 9.1     | • lower explosion limit (LEL):<br>5 vol%                                                                                                      |                                                                                                                                                                                                                                                                                                                                                               | yes             |
| 9.1     | • upper explosion limit (UEL):<br>15 vol%                                                                                                     |                                                                                                                                                                                                                                                                                                                                                               | yes             |
| 9.1     | Flash point:<br>not applicable (aerosol)                                                                                                      | Flash point:<br>-87 °C at 1,013 hPa                                                                                                                                                                                                                                                                                                                           | yes             |
| 9.1     | Viscosity:<br>not relevant (aerosol)                                                                                                          |                                                                                                                                                                                                                                                                                                                                                               | yes             |
| 9.1     | Explosive properties:<br>none                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                               | yes             |
| 9.1     | Oxidising properties:<br>none                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                               | yes             |
| 9.1     |                                                                                                                                               | Decomposition temperature:<br>not relevant                                                                                                                                                                                                                                                                                                                    | yes             |
| 9.1     |                                                                                                                                               | pH (value):<br>not determined                                                                                                                                                                                                                                                                                                                                 | yes             |
| 9.1     |                                                                                                                                               | Kinematic viscosity:<br>not relevant                                                                                                                                                                                                                                                                                                                          | yes             |
| 9.1     |                                                                                                                                               | Density and/or relative density                                                                                                                                                                                                                                                                                                                               | yes             |

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| Section | Former entry (text/value)                                                                                                                                                                                | Actual entry (text/value)                                                                                                                                                                                                                                                                          | Safety-relevant |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 9.1     |                                                                                                                                                                                                          | Relative vapour density:<br>information on this property is not available                                                                                                                                                                                                                          | yes             |
| 9.2     | Other information:<br>There is no additional information.                                                                                                                                                | Other information                                                                                                                                                                                                                                                                                  | yes             |
| 9.2     |                                                                                                                                                                                                          | Information with regard to physical hazard classes:<br>there is no additional information                                                                                                                                                                                                          | yes             |
| 9.2     |                                                                                                                                                                                                          | Other safety characteristics                                                                                                                                                                                                                                                                       | yes             |
| 9.2     |                                                                                                                                                                                                          | Temperature class (EU, acc. to ATEX):<br>T3 (maximum permissible surface temperature on the equipment: 200°C)                                                                                                                                                                                      | yes             |
| 10.4    | Physical stresses which might result in a hazardous situation and have to be avoided:<br>high temperatures                                                                                               |                                                                                                                                                                                                                                                                                                    | yes             |
| 11.1    | Summary of evaluation of the CMR properties:<br>Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.                                                             |                                                                                                                                                                                                                                                                                                    | yes             |
| 11.1    | Specific target organ toxicity (STOT)                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                    | yes             |
| 11.1    |                                                                                                                                                                                                          | Germ cell mutagenicity:<br>Shall not be classified as germ cell mutagenic.                                                                                                                                                                                                                         | yes             |
| 11.1    |                                                                                                                                                                                                          | Carcinogenicity:<br>Shall not be classified as carcinogenic.                                                                                                                                                                                                                                       | yes             |
| 11.1    |                                                                                                                                                                                                          | Reproductive toxicity:<br>Shall not be classified as a reproductive toxicant.                                                                                                                                                                                                                      | yes             |
| 11.2    |                                                                                                                                                                                                          | Information on other hazards:<br>There is no additional information.                                                                                                                                                                                                                               | yes             |
| 12.1    | Toxicity:<br>acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment.<br>Wassergefährdungsklasse, WGK (water hazard class) (WGK; Germany): 1 (slightly hazardous to water) | Toxicity:<br>Acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment.<br>Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV): WGK 1, slightly hazardous to water (Germany) | yes             |
| 12.1    | Aquatic toxicity (acute)                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                    | yes             |
| 12.1    | Aquatic toxicity (acute) of components of the mixture                                                                                                                                                    |                                                                                                                                                                                                                                                                                                    | yes             |
| 12.1    |                                                                                                                                                                                                          | Aquatic toxicity (acute) of components of the mixture:<br>change in the listing (table)                                                                                                                                                                                                            | yes             |
| 12.1    | Aquatic toxicity (chronic)                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                    | yes             |
| 12.1    | Aquatic toxicity (chronic) of components of the mixture                                                                                                                                                  |                                                                                                                                                                                                                                                                                                    | yes             |
| 12.1    |                                                                                                                                                                                                          | Aquatic toxicity (chronic) of components of the mixture:<br>change in the listing (table)                                                                                                                                                                                                          | yes             |
| 12.2    | Degradability of components of the mixture                                                                                                                                                               |                                                                                                                                                                                                                                                                                                    | yes             |
| 12.2    |                                                                                                                                                                                                          | Degradability of components of the mixture:<br>change in the listing (table)                                                                                                                                                                                                                       | yes             |
| 12.3    | Bioaccumulative potential of components of the mixture                                                                                                                                                   |                                                                                                                                                                                                                                                                                                    | yes             |

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|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 12.3    |                                                                                                                                                                                                    | Bioaccumulative potential of components of the mixture:<br>change in the listing (table)                                                                                                              | yes             |
| 12.5    | Results of PBT and vPvB assessment:<br>Data are not available.                                                                                                                                     | Results of PBT and vPvB assessment:<br>According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance in a concentration of $\geq 0,1\%$ . | yes             |
| 12.6    | Endocrine disrupting potential:<br>None of the ingredients are listed.                                                                                                                             | Endocrine disrupting properties:<br>Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0,1\%$ .                                                                                 | yes             |
| 13.1    | List of wastes:<br>16 05 04* gases in pressure containers (including halons) containing hazardous substances<br>15 01 10* packaging containing residues of or contaminated by hazardous substances | List of wastes, (Recommendations)                                                                                                                                                                     | yes             |
| 13.1    |                                                                                                                                                                                                    | Product:<br>07 07 04* Other organic solvents, washing liquids and mother liquors                                                                                                                      | yes             |
| 13.1    |                                                                                                                                                                                                    | Product residues:<br>16 05 04* Gases in pressure containers (including halons) containing hazardous substances<br>07 07 04* Other organic solvents, washing liquids and mother liquors                | yes             |
| 13.1    |                                                                                                                                                                                                    | Packagings:<br>15 01 04 Metallic packaging                                                                                                                                                            | yes             |
| 14.1    | UN number:<br>1950                                                                                                                                                                                 | UN number or ID number                                                                                                                                                                                | yes             |
| 14.1    |                                                                                                                                                                                                    | ADR/RID/ADN:<br>UN 1950                                                                                                                                                                               | yes             |
| 14.1    |                                                                                                                                                                                                    | IMDG-Code:<br>UN 1950                                                                                                                                                                                 | yes             |
| 14.1    |                                                                                                                                                                                                    | ICAO-TI:<br>UN 1950                                                                                                                                                                                   | yes             |
| 14.2    | UN proper shipping name:<br>AEROSOLS                                                                                                                                                               | UN proper shipping name                                                                                                                                                                               | yes             |
| 14.2    |                                                                                                                                                                                                    | ADR/RID/ADN:<br>AEROSOLS                                                                                                                                                                              | yes             |
| 14.2    |                                                                                                                                                                                                    | IMDG-Code:<br>AEROSOLS                                                                                                                                                                                | yes             |
| 14.2    |                                                                                                                                                                                                    | ICAO-TI:<br>Aerosols, flammable                                                                                                                                                                       | yes             |
| 14.3    | Class:<br>2 (gases) (aerosol)                                                                                                                                                                      |                                                                                                                                                                                                       | yes             |
| 14.3    | Subsidiary risk(s):<br>2.1 (flammability)                                                                                                                                                          |                                                                                                                                                                                                       | yes             |
| 14.3    |                                                                                                                                                                                                    | ADR/RID/ADN:<br>2 (2.1)                                                                                                                                                                               | yes             |
| 14.3    |                                                                                                                                                                                                    | IMDG-Code:<br>2.1                                                                                                                                                                                     | yes             |
| 14.3    |                                                                                                                                                                                                    | ICAO-TI:<br>2.1                                                                                                                                                                                       | yes             |
| 14.4    | Packing group:<br>not assigned to a packing group                                                                                                                                                  | Packing group:<br>not assigned                                                                                                                                                                        | yes             |

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| Section | Former entry (text/value)                                                                                                                                                                                                                                                                              | Actual entry (text/value)                                                                       | Safety-relevant |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------|
| 14.5    | Environmental hazards:<br>none (non-environmentally hazardous acc. to the dangerous goods regulations)                                                                                                                                                                                                 | Environmental hazards:<br>non-environmentally hazardous acc. to the dangerous goods regulations | yes             |
| 14.7    | UN number:<br>1950                                                                                                                                                                                                                                                                                     |                                                                                                 | yes             |
| 14.7    | Proper shipping name:<br>AEROSOLS                                                                                                                                                                                                                                                                      |                                                                                                 | yes             |
| 14.7    | Class:<br>2                                                                                                                                                                                                                                                                                            |                                                                                                 | yes             |
| 14.7    | UN number:<br>1950                                                                                                                                                                                                                                                                                     |                                                                                                 | yes             |
| 14.7    | Proper shipping name:<br>AEROSOLS                                                                                                                                                                                                                                                                      |                                                                                                 | yes             |
| 14.7    | Class:<br>2.1                                                                                                                                                                                                                                                                                          |                                                                                                 | yes             |
| 14.7    |                                                                                                                                                                                                                                                                                                        | Marine pollutant:<br>-                                                                          | yes             |
| 14.7    | UN number:<br>1950                                                                                                                                                                                                                                                                                     |                                                                                                 | yes             |
| 14.7    | Proper shipping name:<br>Aerosols, flammable                                                                                                                                                                                                                                                           |                                                                                                 | yes             |
| 14.7    | Class:<br>2.1                                                                                                                                                                                                                                                                                          |                                                                                                 | yes             |
| 14.7    |                                                                                                                                                                                                                                                                                                        | Danger label(s):<br>change in the listing (table)                                               | yes             |
| 14.7    |                                                                                                                                                                                                                                                                                                        | Danger label(s):<br>change in the listing (table)                                               | yes             |
| 15.1    | • Restrictions according to REACH, Annex XVII                                                                                                                                                                                                                                                          |                                                                                                 | yes             |
| 15.1    |                                                                                                                                                                                                                                                                                                        | • Restrictions according to REACH, Annex XVII:<br>change in the listing (table)                 | yes             |
| 15.1    | • Directive 75/324/EEC relating to aerosol dispensers                                                                                                                                                                                                                                                  |                                                                                                 | yes             |
| 15.1    | Classification of the gas/aerosol:<br>extremely flammable                                                                                                                                                                                                                                              |                                                                                                 | yes             |
| 15.1    | Labelling:<br>keep out of reach of children pressurized container: may burst if heated keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking do not pierce or burn, even after use protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F |                                                                                                 | yes             |
| 15.1    | Net contents by volume:<br>400 ml                                                                                                                                                                                                                                                                      |                                                                                                 | yes             |
| 15.1    | • Limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle re-finishing products (2004/42/EC, Deco-Paint Directive)                                                                                                        |                                                                                                 | yes             |
| 15.1    | VOC content:<br>100 % 774.1 g/l                                                                                                                                                                                                                                                                        |                                                                                                 | yes             |
| 15.1    |                                                                                                                                                                                                                                                                                                        | Maximum VOC content limit:<br>change in the listing (table)                                     | yes             |

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| 15.1    | Regulation 648/2004/EC on detergents                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                         | yes             |
| 15.1    |                                                                                                                                                                     | Labelling of contents: change in the listing (table)                                                                                                                                                                                                                                                                                                                                                                    | yes             |
| 15.1    |                                                                                                                                                                     | Regulation 648/2004/EC on detergents                                                                                                                                                                                                                                                                                                                                                                                    | yes             |
| 15.1    |                                                                                                                                                                     | Labelling of contents: change in the listing (table)                                                                                                                                                                                                                                                                                                                                                                    | yes             |
| 15.1    |                                                                                                                                                                     | Regulation on persistent organic pollutants (POP): none of the ingredients are listed                                                                                                                                                                                                                                                                                                                                   | yes             |
| 15.1    | • Storage of hazardous substances in non-stationary containers (TRGS 510) (Germany)                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                         | yes             |
| 15.1    | Storage class (LGK): 2 B (aerosol dispensers and lighters)                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                         | yes             |
| 15.1    | National inventories                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                         | yes             |
| 15.1    |                                                                                                                                                                     | National inventories: change in the listing (table)                                                                                                                                                                                                                                                                                                                                                                     | yes             |
| 15.1    |                                                                                                                                                                     | National inventories                                                                                                                                                                                                                                                                                                                                                                                                    | yes             |
| 15.1    |                                                                                                                                                                     | National inventories: change in the listing (table)                                                                                                                                                                                                                                                                                                                                                                     | yes             |
| 16      |                                                                                                                                                                     | Abbreviations and acronyms: change in the listing (table)                                                                                                                                                                                                                                                                                                                                                               | yes             |
| 16      | Key literature references and sources for data:<br>- Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU<br>- Regulation (EC) No. 1272/2008 (CLP, EU GHS) | Key literature references and sources for data:<br>Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU. Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA). | yes             |

## Abbreviations and acronyms

| Abbr.         | Descriptions of used abbreviations.                                                                                                                                                                                    |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2019/1831/EU. | Commission Directive establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.                                   |
| ADN.          | Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways). |
| ADR.          | Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road).                                                         |
| ADR/RID/ADN.  | Agreements concerning the International Carriage of Dangerous Goods by Road/Rail/Inland Waterways (ADR/RID/ADN).                                                                                                       |
| AGW.          | Workplace exposure limit.                                                                                                                                                                                              |
| CAS.          | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances).                                                                                                                |
| Ceiling-C.    | Ceiling value.                                                                                                                                                                                                         |
| CLP.          | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.                                                                                                                    |
| DFG.          | Deutsche Forschungsgemeinschaft MAK-und BAT-Werte-Liste, Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Wiley-VCH, Weinheim.                                                                       |
| DGR.          | Dangerous Goods Regulations (see IATA/DGR).                                                                                                                                                                            |
| DNEL.         | Derived No-Effect Level.                                                                                                                                                                                               |
| EC No.        | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union).                                     |
| ED.           | Endocrine disruptor.                                                                                                                                                                                                   |
| EINECS.       | European Inventory of Existing Commercial Chemical Substances.                                                                                                                                                         |
| ELINCS.       | European List of Notified Chemical Substances.                                                                                                                                                                         |
| EmS.          | Emergency Schedule.                                                                                                                                                                                                    |
| Flam. Gas.    | Flammable gas.                                                                                                                                                                                                         |
| Flam. Liq.    | Flammable liquid.                                                                                                                                                                                                      |
| GHS.          | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations.                                                                                                             |
| IATA.         | International Air Transport Association.                                                                                                                                                                               |
| IATA/DGR.     | Dangerous Goods Regulations (DGR) for the air transport (IATA).                                                                                                                                                        |
| ICAO.         | International Civil Aviation Organization.                                                                                                                                                                             |
| ICAO-TI.      | Technical instructions for the safe transport of dangerous goods by air.                                                                                                                                               |
| IMDG.         | International Maritime Dangerous Goods Code.                                                                                                                                                                           |
| IMDG-Code.    | International Maritime Dangerous Goods Code.                                                                                                                                                                           |
| Index No.     | The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008.                                                                                              |
| IOELV.        | Indicative occupational exposure limit value.                                                                                                                                                                          |
| LGK.          | Lagerklasse (storage class according to TRGS 510, Germany).                                                                                                                                                            |
| NLP.          | No-Longer Polymer.                                                                                                                                                                                                     |
| PBT.          | Persistent, Bioaccumulative and Toxic.                                                                                                                                                                                 |
| PNEC.         | Predicted No-Effect Concentration.                                                                                                                                                                                     |
| Ppm.          | Parts per million.                                                                                                                                                                                                     |
| Press. Gas.   | Gas under pressure.                                                                                                                                                                                                    |
| REACH.        | Registration, Evaluation, Authorisation and Restriction of Chemicals.                                                                                                                                                  |

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| Abbr.     | Descriptions of used abbreviations.                                                                                                                                      |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RID.      | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail). |
| STEL.     | Short-term exposure limit.                                                                                                                                               |
| STOT SE.  | Specific target organ toxicity - single exposure.                                                                                                                        |
| SVHC.     | Substance of Very High Concern.                                                                                                                                          |
| TRGS.     | Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany).                                                                                  |
| TRGS 900. | Arbeitsplatzgrenzwerte (TRGS 900).                                                                                                                                       |
| TWA.      | Time-weighted average.                                                                                                                                                   |
| VPvB.     | Very Persistent and very Bioaccumulative.                                                                                                                                |

### Key literature references and sources for data

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

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

### Classification procedure

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

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

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

|       |                                                     |
|-------|-----------------------------------------------------|
| H220. | Extremely flammable gas.                            |
| H221. | Flammable gas.                                      |
| H222. | Extremely flammable aerosol.                        |
| H226. | Flammable liquid and vapour.                        |
| H229. | Pressurised container: May burst if heated.         |
| H280. | Contains gas under pressure; may explode if heated. |
| H336. | May cause drowsiness or dizziness.                  |

### Disclaimer

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