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 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 05.03.2018 / 0005  
 Replacing version dated / version: 24.06.2017 / 0004  
 Valid from: 05.03.2018  
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 marbaglue  
 Art.-Nr. 06091  
 Art.-Nr. 06092

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

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

**1.1 Product identifier**

**marbaglue**  
**Art.-Nr. 06091**  
**Art.-Nr. 06092**

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

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

Cyanoacrylate instant adhesive

**Uses advised against:**

No information available at present.

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

GB  
 Karl Marbach GmbH & Co. KG, Karl-Marbach-Straße 1, 74080 Heilbronn, Germany  
 Phone:+49 (0) 7131/918-228, Fax:+49 (0) 7131/918-228  
 www.marbach.com

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

**1.4 Emergency telephone number**

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

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

+49 (0) 700 / 24 112 112 (WIC)

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

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

| Hazard class | Hazard category | Hazard statement                       |
|--------------|-----------------|--|
| Eye Irrit.   | 2               | H319-Causes serious eye irritation.    |
| STOT SE      | 3               | H335-May cause respiratory irritation. |
| Skin Irrit.  | 2               | H315-Causes skin irritation.           |

**2.2 Label elements**

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



Warning

H319-Causes serious eye irritation. H335-May cause respiratory irritation. H315-Causes skin irritation.

P261-Avoid breathing vapours or spray. P280-Wear protective gloves and eye protection / face protection.

P302+P352-IF ON SKIN: Wash with plenty of water and soap. P304+P340-IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312-Call a POISON CENTRE / doctor if you feel unwell.

EUH202-Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.

Ethyl 2-cyanoacrylate

**2.3 Other hazards**

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

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

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

**3.1 Substance**

n.a.

**3.2 Mixture**

|                                    |              |
|------------------------------------|--------------|
| <b>Ethyl 2-cyanoacrylate</b>       |              |
| <b>Registration number (REACH)</b> | ---          |
| <b>Index</b>                       | 607-236-00-9 |
| <b>EINECS, ELINCS, NLP</b>         | 230-391-5    |
| <b>CAS</b>                         | 7085-85-0    |
| <b>content %</b>                   | 80-<100      |

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

Eye Irrit. 2, H319  
 STOT SE 3, H335  
 Skin Irrit. 2, H315

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.  
 The substances named in this section are given with their actual, appropriate classification!  
 For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

First-aiders should ensure they are protected!  
 Never pour anything into the mouth of an unconscious person!

**Inhalation**

Remove person from danger area.  
 Supply person with fresh air and consult doctor according to symptoms.  
 If the person is unconscious, place in a stable side position and consult a doctor.

**Skin contact**

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap. Call a doctor immediately, keep datasheet at hand  
 Do not attempt to force glued areas of skin apart.

**Eye contact**

Wash thoroughly for several minutes using copious water - call doctor immediately, have Data Sheet available.  
 Protect uninjured eye.

**Ingestion**

Rinse the mouth thoroughly with water.  
 Do not induce vomiting - give copious water to drink. Consult doctor immediately.

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

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.  
 The following may occur:

Watering eyes  
 Dermatitis (skin inflammation)  
 Allergic reaction possible.  
 May cause sensitisation by inhalation.  
 Respiratory distress  
 Coughing  
 Headaches

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

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

In case of irritation of the lungs, perform first-aid with controlled-dosage aerosol dexamethasone.

**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media**

CO2  
 Extinction powder  
 Water jet spray  
 Alcohol resistant foam

**Unsuitable extinguishing media**

High volume water jet

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

In case of fire the following can develop:

Oxides of carbon  
 Oxides of nitrogen  
 Hydrogen cyanide  
 Toxic gases

**5.3 Advice for firefighters**

In case of fire and/or explosion do not breathe fumes.  
 Protective respirator with independent air supply.  
 According to size of fire  
 Full protection, if necessary.  
 Dispose of contaminated extinction water according to official regulations.

**SECTION 6: Accidental release measures**

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

Remove possible causes of ignition - do not smoke.  
 Ensure sufficient supply of air.  
 Avoid inhalation, and contact with eyes or skin.

**6.2 Environmental precautions**

If leakage occurs, dam up.  
 Resolve leaks if this possible without risk.  
 Prevent from entering drainage system.  
 Prevent surface and ground-water infiltration, as well as ground penetration.

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

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

**6.4 Reference to other sections**

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

**SECTION 7: Handling and storage**

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

**7.1 Precautions for safe handling**

**7.1.1 General recommendations**

Ensure good ventilation.  
 Avoid inhalation of the vapours.  
 Keep away from sources of ignition - Do not smoke.  
 Avoid contact with eyes or skin.  
 Handle and open container with care.  
 Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.  
 Observe directions on label and instructions for use.  
 Use working methods according to operating instructions.

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

General hygiene measures for the handling of chemicals are applicable.  
 Wash hands before breaks and at end of work.  
 Keep away from food, drink and animal feedingstuffs.  
 Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

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

Keep out of access to unauthorised individuals.  
 Not to be stored in gangways or stair wells.  
 Store product closed and only in original packing.  
 Do not store with alkalis.  
 Do not store with acids.  
 Do not store with oxidizing agents.  
 Protect from direct sunlight and warming.  
 Store cool.

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Store in a dry place.  
**7.3 Specific end use(s)**  
 Adhesive

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

| Chemical Name              | Ethyl 2-cyanoacrylate         | Content %:80- <100 |
|----------------------------|-------------------------------|--------------------|
| WEL-TWA: ---               | WEL-STEL: 0,3 ppm (1,5 mg/m3) | ---                |
| Monitoring procedures: --- |                               |                    |
| BMGV: ---                  | Other information: ---        |                    |

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). (8) = Inhalable fraction (2017/164/EU). (9) = Respirable fraction (2017/164/EU). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). (8) = Inhalable fraction (2017/164/EU). (9) = Respirable fraction (2017/164/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.  
 \*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

### 8.2 Exposure controls

| Ethyl 2-cyanoacrylate |  |                             |            |       |       |      |
|-----------------------|--|-----------------------------|------------|-------|-------|------|
| Area of application   | Exposure route / Environmental compartment | Effect on health            | Descriptor | Value | Unit  | Note |
| Consumer              | Human - inhalation                         | Long term, systemic effects | DNEL       | 9,25  | mg/m3 |      |
| Consumer              | Human - inhalation                         | Long term, local effects    | DNEL       | 9,25  | mg/m3 |      |
| Workers / employees   | Human - inhalation                         | Long term, systemic effects | DNEL       | 9,25  | mg/m3 |      |
| Workers / employees   | Human - inhalation                         | Long term, local effects    | DNEL       | 9,25  | mg/m3 |      |

#### 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction. If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here. Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques. These are specified by e.g. BS EN 14042. BS EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

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

General hygiene measures for the handling of chemicals are applicable. Wash hands before breaks and at end of work. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:  
 Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:  
 Chemical resistant protective gloves (EN 374).  
 If applicable  
 Safety gloves made of butyl (EN 374)  
 Protective nitrile gloves (EN 374)  
 Minimum layer thickness in mm:  
 0,4  
 Permeation time (penetration time) in minutes:  
 >= 480  
 Safety gloves made of PE laminate (EN 374).  
 Protective hand cream recommended.  
 Unsuitable material:  
 Cotton gloves  
 Protective PVC gloves (EN 374)  
 The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.  
 The recommended maximum wearing time is 50% of breakthrough time.

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

Respiratory protection:  
 Normally not necessary.

Thermal hazards:  
 Not applicable

Additional information on hand protection - No tests have been performed. In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications. Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account. Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer. In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

#### 8.2.3 Environmental exposure controls

No information available at present.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state: Liquid  
 Colour: Clear, Colourless  
 Odour: Penetrating, Characteristic  
 Odour threshold: Not determined  
 pH-value: n.a.  
 Melting point/freezing point: Not determined  
 Initial boiling point and boiling range: >149 °C  
 Flash point: ~-87 °C  
 Evaporation rate: Not determined  
 Flammability (solid, gas): Not determined  
 Lower explosive limit: Not determined  
 Upper explosive limit: Not determined  
 Vapour pressure: <0,2 mmHg (25°C)  
 Vapour density (air = 1): ~3  
 Density: 1,05 (20°C, relative density)  
 Bulk density: Not determined  
 Solubility(ies): Not determined  
 Water solubility: Insoluble  
 Partition coefficient (n-octanol/water): Not determined  
 Auto-ignition temperature: Not determined  
 Decomposition temperature: Not determined  
 Viscosity: Not determined  
 Explosive properties: Not determined  
 Oxidising properties: Not determined

### 9.2 Other information

Miscibility: Not determined  
 Fat solubility / solvent: Not determined  
 Conductivity: Not determined  
 Surface tension: Not determined  
 Solvents content: Not determined

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Reacts violently with water.

### 10.2 Chemical stability

Stable with proper storage and handling.

### 10.3 Possibility of hazardous reactions

Polymerisation possible

### 10.4 Conditions to avoid

See also section 7.  
 Heating, open flame, ignition sources  
 Protect from humidity.

### 10.5 Incompatible materials

See also section 7.  
 Polymerisation possible with:  
 Water  
 Bases  
 Acids  
 Oxidizing agents  
 Amines  
 Alcohols

### 10.6 Hazardous decomposition products

See also section 5.2  
 No decomposition when used as directed.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

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

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|---|----------|-------|------|----------|-------------|--|
| Toxicity / effect   | Endpoint | Value | Unit | Organism | Test method | Notes  |
| Acute toxicity, by oral route:                                |          |       |      |          |             | n.d.a.   |
| Acute toxicity, by dermal route:                              |          |       |      |          |             | n.d.a.   |
| Acute toxicity, by inhalation:                                |          |       |      |          |             | n.d.a.   |
| Skin corrosion/irritation:                                    |          |       |      |          |             | n.d.a.   |
| Serious eye damage/irritation:                                |          |       |      |          |             | n.d.a.   |
| Respiratory or skin sensitisation:                            |          |       |      |          |             | n.d.a.   |
| Germ cell mutagenicity:                                       |          |       |      |          |             | n.d.a.   |
| Carcinogenicity:  |          |       |      |          |             | n.d.a.   |
| Reproductive toxicity:  |          |       |      |          |             | n.d.a.   |
| Specific target organ toxicity - single exposure (STOT-SE):   |          |       |      |          |             | n.d.a.   |
| Specific target organ toxicity - repeated exposure (STOT-RE): |          |       |      |          |             | n.d.a.   |
| Aspiration hazard:  |          |       |      |          |             | n.d.a.   |
| Symptoms:   |          |       |      |          |             | n.d.a.   |
| Other information:  |          |       |      |          |             | Classification according to calculation procedure. |

| Ethyl 2-cyanoacrylate            |          |       |       |          |  |          |
|----------------------------------|----------|-------|-------|----------|--|----------|
| Toxicity / effect                | Endpoint | Value | Unit  | Organism | Test method                                  | Notes    |
| Acute toxicity, by oral route:   | LD50     | >5000 | mg/kg | Rat      | OECD 401 (Acute Oral Toxicity)               |          |
| Acute toxicity, by dermal route: | LD50     | >2000 | mg/kg | Rabbit   | OECD 402 (Acute Dermal Toxicity)             |          |
| Skin corrosion/irritation:       |          | 24    | h     | Rabbit   | OECD 404 (Acute Dermal Irritation/Corrosion) | Irritant |

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|   |  |    |   |        |   |   |
|---|--|----|---|--------|---|---|
| Serious eye damage/irritation:  |  | 72 | h | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion)             | Irritant  |
| Germ cell mutagenicity:   |  |    |   | Mouse  |   | Negative  |
| Germ cell mutagenicity:   |  |    |   |        | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test) | Negative  |
| Aspiration hazard:  |  |    |   |        |   | No  |
| Symptoms:   |  |    |   |        |   | respiratory distress, coughing, mucous membrane irritation, watering eyes |
| Specific target organ toxicity - single exposure (STOT-SE), inhalative: |  |    |   |        |   | STOT SE 3, H335   |

## SECTION 12: Ecological information

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

| Toxicity / effect                        | Endpoint | Time | Value | Unit | Organism | Test method | Notes  |
|--|----------|------|-------|------|----------|-------------|--------|
| 12.1. Toxicity to fish:                  |          |      |       |      |          |             | n.d.a. |
| 12.1. Toxicity to daphnia:               |          |      |       |      |          |             | n.d.a. |
| 12.1. Toxicity to algae:                 |          |      |       |      |          |             | n.d.a. |
| 12.2. Persistence and degradability:     |          |      |       |      |          |             | n.d.a. |
| 12.3. Bioaccumulative potential:         |          |      |       |      |          |             | n.d.a. |
| 12.4. Mobility in soil:                  |          |      |       |      |          |             | n.d.a. |
| 12.5. Results of PBT and vPvB assessment |          |      |       |      |          |             | n.d.a. |
| 12.6. Other adverse effects:             |          |      |       |      |          |             | n.d.a. |

| Toxicity / effect                        | Endpoint | Time | Value | Unit | Organism | Test method | Notes                               |
|--|----------|------|-------|------|----------|-------------|-------------------------------------|
| 12.3. Bioaccumulative potential:         | Log Pow  |      | 1,42  |      |          |             | Not to be expected                  |
| 12.5. Results of PBT and vPvB assessment |          |      |       |      |          |             | No PBT substance, No vPvB substance |

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

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

EC disposal code no.:

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

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

08 04 09 waste adhesives and sealants containing organic solvents or other hazardous substances

08 04 99 wastes not otherwise specified

Recommendation:

Sewage disposal shall be discouraged.

E.g. suitable incineration plant.

E.g. dispose at suitable refuse site.

#### For contaminated packing material

Pay attention to local and national official regulations.

Empty container completely.

Uncontaminated packaging can be recycled.

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

15 01 10 packaging containing residues of or contaminated by hazardous substances

## SECTION 14: Transport information

### General statements

14.1. UN number: n.a.

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

14.2. UN proper shipping name:

14.3. Transport hazard class(es): n.a.

14.4. Packing group: n.a.

Classification code: n.a.

LQ: n.a.

14.5. Environmental hazards: Not applicable

Tunnel restriction code:

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

14.2. UN proper shipping name:

14.3. Transport hazard class(es): n.a.

14.4. Packing group: n.a.

Marine Pollutant: n.a.

14.5. Environmental hazards: Not applicable

#### Transport by air (IATA)

14.2. UN proper shipping name:

14.3. Transport hazard class(es): n.a.

14.4. Packing group: n.a.

14.5. Environmental hazards: Not applicable

#### 14.6. Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

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

Non-dangerous material according to Transport Regulations.

## SECTION 15: Regulatory information

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

Observe restrictions:

Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC): 0 g/l

### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

## SECTION 16: Other information

Revised sections: 1

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

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

| Classification in accordance with regulation (EC) No. 1272/2008 (CLP) | Evaluation method used                             |
|---|--|
| Eye Irrit. 2, H319  | Classification according to calculation procedure. |
| STOT SE 3, H335   | Classification according to calculation procedure. |
| Skin Irrit. 2, H315   | Classification according to calculation procedure. |

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

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Eye Irrit. — Eye irritation

STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation

Skin Irrit. — Skin irritation

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

|                |   |
|----------------|---|
| AC             | Article Categories  |
| acc., acc. to  | according, according to   |
| ACGIH          | American Conference of Governmental Industrial Hygienists   |
| ADR            | Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road) |
| AOEL           | Acceptable Operator Exposure Level  |
| AOX            | Adsorbable organic halogen compounds  |
| approx.        | approximately   |
| Art., Art. no. | Article number  |
| ATE            | Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)  |
| BAM            | Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)  |
| BAuA           | Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)  |
| BCF            | Bioconcentration factor   |
| BGV            | Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation)   |
| BHT            | Butylhydroxytoluol (= 2,6-Di- <i>t</i> -butyl-4-methyl-phenol)  |
| BMGV           | Biological monitoring guidance value (EH40, UK)   |
| BOD            | Biochemical oxygen demand   |
| BSEF           | Bromine Science and Environmental Forum   |
| bw             | body weight   |
| CAS            | Chemical Abstracts Service  |
| CEC            | Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids   |
| CESEO          | Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques   |
| CIPAC          | Collaborative International Pesticides Analytical Council   |
| CLP            | Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)                                      |
| CMR            | carcinogenic, mutagenic, reproductive toxic   |
| COD            | Chemical oxygen demand  |
| CTFA           | Cosmetic, Toiletry, and Fragrance Association   |
| DMEL           | Derived Minimum Effect Level  |
| DNEL           | Derived No Effect Level   |
| DOC            | Dissolved organic carbon  |
| DT50           | Dwell Time - 50% reduction of start concentration   |
| DVS            | Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes)  |
| dw             | dry weight  |
| e.g.           | for example (abbreviation of Latin 'exempli gratia'), for instance  |
| EC             | European Community  |
| ECHA           | European Chemicals Agency   |
| EEA            | European Economic Area  |
| EEC            | European Economic Community   |
| EINECS         | European Inventory of Existing Commercial Chemical Substances   |
| ELINCS         | European List of Notified Chemical Substances   |
| EN             | European Norms  |
| EPA            | United States Environmental Protection Agency (United States of America)  |
| ERC            | Environmental Release Categories  |
| ES             | Exposure scenario   |
| etc.           | et cetera   |
| EU             | European Union  |
| EWC            | European Waste Catalogue  |
| Fax.           | Fax number  |
| gen.           | general   |
| GHS            | Globally Harmonized System of Classification and Labelling of Chemicals   |
| GWP            | Global warming potential  |

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HET-CAM Hen's Egg Test - Chorionallantoic Membrane  
 HGWP Halocarbon Global Warming Potential  
 IARC International Agency for Research on Cancer  
 IATA International Air Transport Association  
 IBC Intermediate Bulk Container  
 IBC (Code) International Bulk Chemical (Code)  
 IC Inhibitory concentration  
 IMDG-code International Maritime Code for Dangerous Goods  
 incl. including, inclusive  
 IUCLID International Uniform Chemical Information Database  
 LC lethal concentration  
 LC50 lethal concentration 50 percent kill  
 LCLo lowest published lethal concentration  
 LD Lethal Dose of a chemical  
 LD50 Lethal Dose, 50% kill  
 LDLo Lethal Dose Low  
 LOAEL Lowest Observed Adverse Effect Level  
 LOEC Lowest Observed Effect Concentration  
 LOEL Lowest Observed Effect Level  
 LQ Limited Quantities  
 MARPOL International Convention for the Prevention of Marine Pollution from Ships  
 n.a. not applicable  
 n.av. not available  
 n.c. not checked  
 n.d.a. no data available  
 NIOSH National Institute of Occupational Safety and Health (United States of America)  
 NOAEC No Observed Adverse Effective Concentration  
 NOAEL No Observed Adverse Effect Level  
 NOEC No Observed Effect Concentration  
 NOEL No Observed Effect Level  
 ODP Ozone Depletion Potential  
 OECD Organisation for Economic Co-operation and Development  
 org. organic  
 PAH polycyclic aromatic hydrocarbon  
 PBT persistent, bioaccumulative and toxic  
 PC Chemical product category  
 PE Polyethylene  
 PNEC Predicted No Effect Concentration  
 POCP Photochemical ozone creation potential  
 ppm parts per million  
 PROC Process category  
 PTFE Polytetrafluorethylene  
 REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)  
 REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.  
 RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)  
 SADT Self-Accelerating Decomposition Temperature  
 SAR Structure Activity Relationship  
 SU Sector of use  
 SVHC Substances of Very High Concern  
 Tel. Telephone  
 ThOD Theoretical oxygen demand  
 TOC Total organic carbon  
 TRGS Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances)  
 UN RTDG United Nations Recommendations on the Transport of Dangerous Goods  
 VbF Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria))  
 VOC Volatile organic compounds  
 vPvB very persistent and very bioaccumulative  
 WEL-TWA, WEL-STEL WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK).  
 WHO World Health Organization  
 wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.

These statements were made by:

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