

**Safety data sheet**  
according to 1907/2006/EC, Article 31

**TETENAL**

Printing date 13.10.2020

version no: 5

Revision: 13.10.2020

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

**1.1 Product identifier**

**Trade name:** CD-3 30% 200 Liter

**Article number:** 104276

**Index number:**

None of the ingredients is listed.

**UFI:** F7S1-M0MU-X006-52TG

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

At the time we have no information available for the identified uses.

**Application of the substance / the mixture**

Developer for photographic use

Chemicals for synthesis

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

**Manufacturer/Supplier:**

TETENAL 1847 GmbH

Schützenwall 31-35

D-22844 Norderstedt /Germany

Tel.: +49 (0) 40 521 45-0; Fax: +49 (0)40-52145-296

www.tetenal.com; E-mail: info@tetenal.com

**Further information obtainable from:** Department product safety. E-Mail: sida@tetenal.com

**1.4 Emergency telephone number:**

Poison Information Centre Germany: +49 (0) 30 - 30686 700 (English and German 24 hours)

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

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

Acute Tox. 4      H302 Harmful if swallowed.

Eye Dam. 1      H318 Causes serious eye damage.

Skin Sens. 1      H317 May cause an allergic skin reaction.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

**2.2 Label elements**

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

The product is classified and labelled according to the CLP regulation.

**Hazard pictograms**



GHS05



GHS07



GHS09

**Signal word** Danger

**Hazard-determining components of labelling:**

N-(2-(4-amino-N-ethyl-m-toluidino)ethyl)methanesulphonamide sesquisulphate (CD-3)

**Hazard statements**

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

**Precautionary statements**

P261              Avoid breathing dust/fume/gas/mist/vapours/spray.

P264              Wash thoroughly after handling.

P270              Do not eat, drink or smoke when using this product.

P272              Contaminated work clothing should not be allowed out of the workplace.

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|                |  |
|----------------|--|
| P273           | Avoid release to the environment.  |
| P280           | Wear protective gloves / eye protection / face protection.   |
| P301+P312      | IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  |
| P330           | Rinse mouth.   |
| P302+P352      | IF ON SKIN: Wash with plenty of water.   |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P310           | Immediately call a POISON CENTER/doctor.   |
| P333+P313      | If skin irritation or rash occurs: Get medical advice/attention.   |
| P362+P364      | Take off contaminated clothing and wash it before reuse.   |
| P391           | Collect spillage.  |
| P501           | Dispose of contents/container in accordance with local regulations.  |

### 2.3 Other hazards

#### Results of PBT and vPvB assessment

- . PBT: Not applicable.
- . vPvB: Not applicable.

## SECTION 3: Composition/information on ingredients

### 3.2 Chemical characterisation: Mixtures

- . **Description:** Mixture of substances listed below and with nonhazardous additions.

#### Dangerous components:

|                                |  |
|--------------------------------|--|
| CAS: 25646-71-3                | N-(2-(4-amino-N-ethyl-m-toluidino)ethyl)methanesulphonamide 25-50% |
| EINECS: 247-161-5              | sesquisulphate (CD-3)  |
| Index number: 612-134-00-2     | ⚠ Acute Tox. 3, H301; ⚠ Eye Dam. 1, H318; ⚠ Aquatic                |
| Reg.nr.: 01-2120794432-50-0001 | Chronic 1, H410; ⚠ Skin Sens. 1, H317                              |

- . **Additional information:** For the wording of the listed hazard phrases refer to section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information:

Immediately remove any clothing/shoes soiled by the product.  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

#### After inhalation:

Supply fresh air and to be sure call for a doctor.  
In case of unconsciousness place patient stably in side position for transportation.

#### After skin contact:

Immediately wash with water and soap and rinse thoroughly.

#### After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

#### After swallowing:

Do not induce vomiting; call for medical help immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

Rinse mouth.

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

No further relevant information available.

#### Information for doctor:

Links for hazardous substances data: <http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index.jsp>

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

No further relevant information available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- . **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.

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

Nitrogen oxides (NO<sub>x</sub>)  
 Carbon monoxide (CO)  
 Sulphur dioxide (SO<sub>2</sub>)  
 Under certain fire conditions, traces of other toxic gases cannot be excluded.

**5.3 Advice for firefighters**
**Protective equipment:**

Mouth respiratory protective device.  
 Do not inhale explosion gases or combustion gases.

### SECTION 6: Accidental release measures

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

Use respiratory protective device against the effects of fumes/dust/aerosol.  
 Wear protective equipment. Keep unprotected persons away.  
 Ensure adequate ventilation

**6.2 Environmental precautions:**

Inform respective authorities in case of seepage into water course or sewage system.  
 Do not allow to enter sewers/ surface or ground water.

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

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
 Use neutralising agent.  
 Dispose contaminated material as waste according to item 13.  
 Ensure adequate ventilation.

**6.4 Reference to other sections**

See Section 7 for information on safe handling.  
 See Section 8 for information on personal protection equipment.  
 See Section 13 for disposal information.

### SECTION 7: Handling and storage

**7.1 Precautions for safe handling**

Use only in well ventilated areas.  
 Ensure good ventilation/exhaustion at the workplace.  
 Prevent formation of aerosols.

**Information about fire - and explosion protection:** The product is not flammable.

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

**Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.

**Information about storage in one common storage facility:**

Store away from foodstuffs.  
 Store away from oxidising agents.

**Further information about storage conditions:**

Keep container tightly sealed.  
 Store in cool, dry conditions in well sealed receptacles.  
 Protect from heat and direct sunlight.  
 Store under lock and key and out of the reach of children.  
 Recommended storage temperature: 5-30°C

**7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

**Additional information about design of technical facilities:** No further data; see item 7.

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### 8.1 Control parameters

#### Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**Additional information:** The lists valid during the making were used as basis.

### 8.2 Exposure controls

#### Personal protective equipment:

##### General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

##### Respiratory protection:

required at the appearance from fumes/vapours/aerosol. Filter ABEK

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Ensure adequate ventilation

##### Protection of hands:



Protective gloves

Impervious gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

##### Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Butyl rubber, BR

Nitrile rubber, NBR

Neoprene gloves

##### Penetration time of glove material

| Glove material  | breakthrough-time | layer thickness |
|-----------------|-------------------|-----------------|
| Butyl rubber:   | ≥480 min          | ≥0,4mm          |
| Nitrile rubber: | ≥480 min          | ≥0,38mm         |
| Neoprene:       | ≥240 min          | ≥0,65mm         |

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

##### Eye protection:



Tightly sealed goggles

**Body protection:** Protective work clothing

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### SECTION 9: Physical and chemical properties

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

##### General Information

##### Appearance:

|                  |                   |
|------------------|-------------------|
| Form:            | Fluid             |
| Colour:          | Yellow            |
| Odour:           | to sulfur dioxide |
| Odour threshold: | Not determined.   |

pH-value: 1

##### Change in condition

|  |               |
|--|---------------|
| Melting point/freezing point:            | Undetermined. |
| Initial boiling point and boiling range: | Undetermined. |

Flash point: Not applicable.

Flammability (solid, gas): Not applicable.

Decomposition temperature: Not determined.

Auto-ignition temperature: Product is not selfigniting.

Explosive properties: Product does not present an explosion hazard.

##### Explosion limits:

|        |                 |
|--------|-----------------|
| Lower: | Not determined. |
| Upper: | Not determined. |

Vapour pressure: Not determined.

|                   |                        |
|-------------------|------------------------|
| Density at 20 °C: | ~1.1 g/cm <sup>3</sup> |
| Relative density  | Not determined.        |
| Vapour density    | Not determined.        |
| Evaporation rate  | Not determined.        |

Solubility in / Miscibility with water: Not miscible or difficult to mix.

Partition coefficient: n-octanol/water: Not determined.

##### Viscosity:

|            |                 |
|------------|-----------------|
| Dynamic:   | Not determined. |
| Kinematic: | Not determined. |

##### Solvent content:

|          |         |
|----------|---------|
| Water:   | 50-90 % |
| VOC (EC) | 0.00 %  |

9.2 Other information: No further relevant information available.

### SECTION 10: Stability and reactivity

10.1 Reactivity: No further relevant information available.

#### 10.2 Chemical stability

Thermal decomposition / conditions to be avoided: Stable at environment temperature.

10.3 Possibility of hazardous reactions: Reacts with acids, alkalis and oxidising agents.

10.4 Conditions to avoid: No further relevant information available.

#### 10.5 Incompatible materials:

Protect from heat and direct sunlight.

Under certain fire conditions, traces of other toxic gases cannot be excluded.

#### 10.6 Hazardous decomposition products:

Irritant gases/vapours

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Carbon monoxide and carbon dioxide

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### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Acute toxicity

Harmful if swallowed.

##### LD/LC50 values relevant for classification:

#### 25646-71-3 N-(2-(4-amino-N-ethyl-m-toluidino)ethyl)methanesulphonamide sesquisulphate (CD-3)

Oral LD50 &gt;75 mg/kg (rat)

Dermal LD50 &gt;2,000 mg/kg (rat)

##### Primary irritant effect:

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

##### Serious eye damage/irritation

Causes serious eye damage.

##### Respiratory or skin sensitisation

May cause an allergic skin reaction.

##### Acute effects (acute toxicity, irritation and corrosivity)

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful

Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

##### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

**Reproductive toxicity** Based on available data, the classification criteria are not met.

**STOT-single exposure** Based on available data, the classification criteria are not met.

**STOT-repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Aquatic toxicity:

#### 25646-71-3 N-(2-(4-amino-N-ethyl-m-toluidino)ethyl)methanesulphonamide sesquisulphate (CD-3)

LC50 96 mg/l (fish: Pimephales promelas)

**12.2 Persistence and degradability** No further relevant information available.

**12.3 Bioaccumulative potential** No further relevant information available.

**12.4 Mobility in soil** No further relevant information available.

##### Ecotoxicological effects:

**Remark:** Very toxic for fish

##### Additional ecological information:

##### General notes:

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

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- . **12.5 Results of PBT and vPvB assessment**
- . **PBT:** Not applicable.
- . **vPvB:** Not applicable.
- . **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- . **13.1 Waste treatment methods**
- . **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- . **Uncleaned packaging:**
- . **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- |  |  |
|--|--|
| . <b>14.1 UN-Number</b>  |  |
| . <b>ADR, IMDG, IATA</b>   | UN3082   |
| . <b>14.2 UN proper shipping name</b>  |  |
| . <b>ADR</b>   | 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (p-Phenylenediamine derivate CD-3)              |
| . <b>IMDG</b>  | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (p-Phenylenediamine derivate CD-3), MARINE POLLUTANT |
| . <b>IATA</b>  | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (p-Phenylenediamine derivate CD-3)                   |
| . <b>14.3 Transport hazard class(es)</b>   |  |
| . <b>ADR</b>   |  |
| . <b>Class</b>   | 9 (M6) Miscellaneous dangerous substances and articles.  |
| . <b>Label</b>   | 9  |
| . <b>IMDG, IATA</b>  |  |
| . <b>Class</b>   | 9 Miscellaneous dangerous substances and articles.   |
| . <b>Label</b>   | 9  |
| . <b>14.4 Packing group</b>  |  |
| . <b>ADR, IMDG, IATA</b>   | III  |
| . <b>14.5 Environmental hazards:</b>   |  |
| . <b>Marine pollutant:</b>   | Yes<br>Symbol (fish and tree)  |
| . <b>Special marking (ADR):</b>  | Symbol (fish and tree)   |
| . <b>Special marking (IATA):</b>   | Symbol (fish and tree)   |
| . <b>14.6 Special precautions for user</b>                                       | Warning: Miscellaneous dangerous substances and articles.  |
| . <b>Hazard identification number (Kemler code):</b>                             | 90   |
| . <b>EMS Number:</b>   | F-A,S-F  |
| . <b>Stowage Category</b>  | A  |
| . <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b> | Not applicable.  |

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**. Transport/Additional information:**
**. ADR**

- |                            |  |
|----------------------------|--|
| . Limited quantities (LQ)  | 5L   |
| . Excepted quantities (EQ) | Code: E1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml |
| . Transport category       | 3  |
| . Tunnel restriction code  | -  |

**. IMDG**

- |                            |  |
|----------------------------|--|
| . Limited quantities (LQ)  | 5L   |
| . Excepted quantities (EQ) | Code: E1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml |

**. UN "Model Regulation":**

UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (P-PHENYLENEDIAMINE DERIVATE CD-3), 9, III

### SECTION 15: Regulatory information

- . **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- . **Labelling according to Regulation (EC) No 1272/2008 GHS label elements**
- . **Directive 2012/18/EU**
- . **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- . **Seveso category E1** Hazardous to the Aquatic Environment
- . **Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t
- . **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t
- . **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- . **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**
- None of the ingredients is listed.
- . **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**. Relevant phrases**

- H301 Toxic if swallowed.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H410 Very toxic to aquatic life with long lasting effects.

**. Contact:** E: sida@tetenal.com

**. Abbreviations and acronyms:**

- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- ICAO: International Civil Aviation Organisation
- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- VOC: Volatile Organic Compounds (USA, EU)
- LC50: Lethal concentration, 50 percent

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LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 3: Acute toxicity - oral – Category 3

Acute Tox. 4: Acute toxicity - oral – Category 4

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

**\* Data compared to the previous version altered.**

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