

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

Printing date 27.02.2018

Version 11

Revision: 27.02.2018

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

• **1.1 Product identifier**

• **Trade name: A 908 Teil 1**

• **Article number: 17071**

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

To this day we do not have any information about the identified use at the moment. These data are available we will add these to the safety data sheet.

• **Application of the substance / the mixture**

Photochemicals  
 Tank cleaner  
 Reserved for industrial and professional use.

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

• **Manufacturer/Supplier:**

Calbe Chemie GmbH  
 Stadtfeld 31  
 D-39240 Calbe  
 Tel.: +49 (0)39291 425-0  
 Fax: +49 (0)39291 425-25  
 e-mail: info@calbe-chemie.de  
 www.calbe-chemie.de

• **Informing department:**

Tel.: +49 (0)39291 42515  
 E-Mail: kr@calbe-chemie.de

• **1.4 Emergency telephone number: Tel.: 0700-24112112 (CAL)**

**SECTION 2: Hazards identification**

• **2.1 Classification of the substance or mixture**

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



GHS08 health hazard

Carc. 2                    H351    Suspected of causing cancer.

Repr. 2                    H361d   Suspected of damaging the unborn child.



GHS09 environment

Aquatic Chronic 2   H411    Toxic to aquatic life with long lasting effects.



GHS07

Acute Tox. 4            H302    Harmful if swallowed.

Eye Irrit. 2            H319    Causes serious eye irritation.

• **2.2 Label elements**

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

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

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- **Hazard pictograms**



GHS07 GHS08 GHS09

- **Signal word** Warning

- **Hazard-determining components of labelling:**

thiourea

- **Hazard statements**

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H351 Suspected of causing cancer.

H361d Suspected of damaging the unborn child.

H411 Toxic to aquatic life with long lasting effects.

- **Precautionary statements**

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection.

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

P308+P313 If exposed or concerned: Get medical advice/attention.

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

P391 Collect spillage.

P501 Dispose of contents/container in accordance with local/regional/national/international 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 Mixtures**

- **Description:** Mixture of the substances listed below with harmless additions.

- **Dangerous components:**

CAS: 5949-29-1 EINECS: 201-069-1	Citric acid monohydrate ! Eye Irrit. 2, H319	25-50%
CAS: 62-56-6 EINECS: 200-543-5 Index number: 612-082-00-0 Reg.nr.: 01-2119977062-37-xxxx	thiourea ! Carc. 2, H351; Repr. 2, H361d ! Aquatic Chronic 2, H411 ! Acute Tox. 4, H302	25-50%

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

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#### **SECTION 4: First aid measures**

· **4.1 Description of first aid measures**

· **General information**

Instantly remove any clothing soiled by the product.

Personal protection for the First Aider.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 24 hours after the accident.

· **After inhalation** Supply fresh air; consult doctor in case of symptoms.

· **After skin contact** The product is not skin irritating.

· **After eye contact**

Rinse opened eye for several minutes under running water (at least 15 minutes).

Remove contact lenses, if present and easy to do.

Use eye protection.

Call a doctor immediately.

· **After swallowing**

Rinse out mouth and then drink plenty of water.

Induce vomiting and call for medical help.

Instantly call for doctor.

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

No further relevant information available.

· **Information for doctor** None

· **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**

CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

· **For safety reasons unsuitable extinguishing agents** Water with a full water jet.

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

Can be released in case of fire

sulphur dioxide (SO<sub>2</sub>)

Nitrogen oxides (NO<sub>x</sub>)

· **5.3 Advice for firefighters**

· **Protective equipment:**

Do not inhale explosion gases or combustion gases.

At formation of toxic gases:

Put on breathing apparatus.

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**SECTION 6: Accidental release measures**

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

Wear protective clothing.

Avoid causing dust.

Ensure adequate ventilation.

· **6.2 Environmental precautions:**

Do not allow to enter drainage system, surface or ground water.

Inform respective authorities in case product reaches water or sewage system.

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

Collect mechanically.

Dispose of contaminated material as waste according to item 13.

· **6.4 Reference to other sections**

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

**SECTION 7: Handling and storage**

· **7.1 Precautions for safe handling**

Do not handle until all safety precautions have been read and understood.

Store locked up.

Store in cool, dry place in tightly closed containers.

Avoid release to the environment.

· **Information about protection against explosions and fires:** No special measures required.

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

· **Storage**

· **Requirements to be met by storerooms and containers:** No special requirements.

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

Keep away from foodstuffs, beverages and food.

· **Further information about storage conditions:** Keep container tightly sealed.

· **Recommended storage temperature:** 5-25°C

· **Storage class**

LGK 13

(German Technical Rule for Hazardous Substance – TRGS 510)

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

**SECTION 8: Exposure controls/personal protection**

· **Additional information about design of technical systems:** No further data; see section 7.

· **8.2 Exposure controls**

· **Personal protective equipment**

· **General protective and hygienic measures**

The usual precautionary measures should be adhered to general rules for handling chemicals.

Keep away from foodstuffs, beverages and food.

Take off immediately all contaminated clothing.

Wash contaminated clothing before reuse.

Wash hands during breaks and at the end of the work.

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Avoid contact with the eyes and skin.  
Do not eat, drink or smoke while working.

• **Breathing equipment:**

Not necessary if room is well-ventilated.  
Use breathing protection in case of insufficient ventilation.  
Fine dust filter mask, filter P2 or P3

• **Protection of hands:**

Protective gloves.  
The protective gloves to be used must comply with the specifications of the EC directive 89/686/EEC and the resultant standard EN 374.  
This recommendation applies only to the product stated in the Safety Data Sheet and supplied by us as well as to the purpose specified by us.  
Only use chemical-protective gloves with CE-labelling of category III.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• **Material of gloves**

	Breakthrough time	
	Thickness (mm)	(min)
Nitril rubber	0,38	> 480
Neoprene	0,65	> 240
Butyl rubber	0,36	> 480

Avoid natural rubber gloves.

• **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**

Synthetic gloves  
Value for permeation: Level ≤ 3 (60 min)

• **Eye protection:** Safety glasses

• **Body protection:** Protective work clothing.

**SECTION 9: Physical and chemical properties**

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

• **General Information**

• **Appearance:**

<b>Form:</b>	Solid.
<b>Colour:</b>	Colourless
<b>Odour:</b>	Not characteristic

• **Change in condition**

<b>Melting point/freezing point:</b>	Not determined
<b>Initial boiling point and boiling range:</b>	Not determined

• **Flash point:** Not applicable

• **Ignition temperature:** 345 °C

• **Self-inflammability:** Product is not selfigniting.

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· <b>Explosive properties:</b>	Product is not explosive.
· <b>Density</b>	Not applicable
· <b>Solubility in / Miscibility with Water:</b>	Soluble
· <b>Viscosity:</b> dynamic:	Not applicable
kinematic:	Not applicable
· <b>Solvent content:</b>	
<b>Solids content:</b>	100.0 %
· <b>9.2 Other information</b>	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:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Reacts with acids, alkalis and oxidizing agents
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** None

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**

· **Acute toxicity**  
Harmful if swallowed.

- **LD/LC50 values that are relevant for classification:**

#### 62-56-6 thiourea

Oral	LD50	1750 mg/kg (rat)
Dermal	LD50	2800 mg/kg (rabbit)
Inhalative	LC50/4 h	0.17 mg/l (rat)

#### 5949-29-1 Citric acid monohydrate

Oral	LD50	6730 mg/kg (rat)
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- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

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- **Additional toxicological information:**  
 This statement was deduced from the properties of the single components.  
 Dangerous for the environment.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
 Limited evidence of a carcinogenic effect.  
 Possible risk of harm to the unborn child.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity**  
 Suspected of causing cancer.
- **Reproductive toxicity**  
 Suspected of damaging the unborn child.
- **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:**

**62-56-6 thiourea**

LC50/48 h	9 mg/l (Daphnia magna)
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- **12.2 Persistence and degradability** Not determined
- **12.3 Bioaccumulative potential** Not determined
- **Behaviour in environmental systems:** Not determined
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:** No further relevant information available.
- **Remark:** Toxic for fish
- **Behaviour in sewage processing plants:** Not determined
- **Additional ecological information:**
- **General notes:**  
 At present there are no ecotoxicological assessments.  
 This statement was deduced from the properties of the single components.  
 The product contains materials that are harmful to the environment.  
 Water hazard class 2 (German Regulation) (Self-assessment): Water-endangering.  
 Do not allow product to reach ground water, water bodies or sewage system.  
 Also poisonous for fish and plankton in water bodies.  
 Toxic for aquatic organisms
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

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### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**

- **Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Must be specially treated under adherence to official regulations.

- **European waste catalogue**

16 07 09*	wastes containing other hazardous substances
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- **Uncleaned packagings:**

- **Recommendation:**

Non contaminated packagings can be used for recycling.

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

Packagings that cannot be cleaned are to be disposed of in the same manner as the product.  
EAK-No. 15 01 10

- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

### SECTION 14: Transport information

- **14.1 UN-Number**

- **ADR/RID, IMDG, IATA**

UN 3077

- **14.2 UN proper shipping name**

- **ADR/RID**

ENVIRONMENTALLY HAZARDOUS  
SUBSTANCE, SOLID, N.O.S. mixture

- **IMDG, IATA**

ENVIRONMENTALLY HAZARDOUS  
SUBSTANCE, SOLID, N.O.S. (thiourea)

- **14.3 Transport hazard class(es)**

- **ADR/RID, IMDG, IATA**



- **Class**

9 Miscellaneous dangerous substances and  
articles.

- **Label**

9

- **14.4 Packing group**

- **ADR/RID, IMDG, IATA**

III

- **14.5 Environmental hazards:**

- **Marine pollutant:**

Yes

Symbol (fish and tree)

- **Special marking (ADR/RID):**

Symbol (fish and tree)

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· <b>Special marking (IATA):</b>	Symbol (fish and tree)
· <b>14.6 Special precautions for user</b>	Warning: Miscellaneous dangerous substances and articles.
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	These substances when transported in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass of 5 kg or less for solids, are not subject to any other provisions of these Regulations provided the packagings meet the general. See the following notes.
· <b>ADR/RID</b>	Goods are not subject to the provisions in accordance with the special provision 375 ADR.
· <b>IMDG</b>	Goods are not subject to the provisions in accordance with 2.10.2.7 IMDG-Code.
· <b>IATA</b>	Goods are not subject to the provisions in accordance with the special provision A197 IATA-DGR.
· <b>UN "Model Regulation":</b>	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. MIXTURE, 9, III

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category E2** Hazardous to the Aquatic Environment
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **National regulations**
- **Information about limitation of use:**  
Employment restrictions concerning pregnant and lactating women must be observed.

Class	Share in %
I	36.5

- **Water hazard class:** Water hazard class 2 (Self-assessment): water-endangering.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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**SECTION 16: Other information**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

• **Relevant phrases**

- H302 Harmful if swallowed.
- H319 Causes serious eye irritation.
- H351 Suspected of causing cancer.
- H361d Suspected of damaging the unborn child.
- H411 Toxic to aquatic life with long lasting effects.

• **Recommended restriction of use** No public product, only for commercial use

• **Department issuing data specification sheet:**

Laboratory  
Tel.: +49 (0)39291 425-15

• **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)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Acute Tox. 4: Acute toxicity – Category 4  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
Carc. 2: Carcinogenicity – Category 2  
Repr. 2: Reproductive toxicity – Category 2  
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

• **Sources**

applicable EEC directives:

- 1907/2006
- 1272/2008

Internal physical tests, MSDS of the ingredients,  
Information system on hazardous substances of the German Social Accident Insurance  
(GESTIS-database on hazardous substances), <http://www.dguv.de/ifa/en/gestis/stoffdb/index.jsp>

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

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

· **1.1 Product identifier**

· **Trade name: A 908 part 2**

· **Article number: 17071**

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

To this day we do not have any information about the identified use at the moment. These data are available we will add these to the safety data sheet.

· **Application of the substance / the mixture**

Photochemicals

Tank cleaner

Reserved for industrial and professional use.

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

· **Manufacturer/Supplier:**

Calbe Chemie GmbH

Stadtfeld 31

D-39240 Calbe

Tel.: +49 (0)39291 425-0

Fax: +49 (0)39291 425-25

e-mail: info@calbe-chemie.de

www.calbe-chemie.de

· **Informing department:**

Tel.: +49 (0)39291 42515

E-Mail: kr@calbe-chemie.de

· **1.4 Emergency telephone number: Tel.: 0700-24112112 (CAL)**

**SECTION 2: Hazards identification**

· **2.1 Classification of the substance or mixture**

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



GHS03 flame over circle

Ox. Sol. 2 H272 May intensify fire; oxidiser.



GHS08 health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

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

STOT SE 3 H335 May cause respiratory irritation.

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- **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**






GHS03 GHS07 GHS08

- **Signal word** Danger
- **Hazard-determining components of labelling:**  
disodium peroxodisulphate
- **Hazard statements**  
H272 May intensify fire; oxidiser.  
H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.
- **Precautionary statements**  
P220 Keep away from clothing and other combustible materials.  
P261 Avoid breathing dust.  
P280 Wear protective gloves.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.  
P501 Dispose of contents/container in accordance with local/regional/national/international 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 Mixtures**
- **Description:** Mixture consisting of the following components.

· **Dangerous components:**

CAS: 7775-27-1 EINECS: 231-892-1 Reg.nr.: 01-2119495975-15-xxxx	disodium peroxodisulphate  Ox. Sol. 2, H272  Resp. Sens. 1, H334  Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	75-100%
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#### **SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
- **General information**  
Personal protection for the First Aider.  
Instantly remove any clothing soiled by the product.
- **After inhalation** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact**  
Instantly wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **After eye contact**  
Rinse opened eye for several minutes under running water (> 15 min). Then consult doctor.
- **After swallowing** Drink copious amounts of water and provide fresh air. Instantly call for doctor.
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **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**  
CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.  
Use fire fighting measures that suit the environment.
- **5.2 Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.  
Sulphur oxides (SO<sub>x</sub>)
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Do not inhale explosion gases or combustion gases.  
At formation of toxic gases:  
Wear self-contained breathing apparatus.

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

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective clothing.  
Avoid causing dust.
- **6.2 Environmental precautions:** Do not allow to enter drainage system, surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Collect mechanically.  
Dispose of contaminated material as waste according to item 13.
- **6.4 Reference to other sections**  
See Section 8 for information on personal protection equipment.

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See Section 13 for information on disposal.

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### SECTION 7: Handling and storage

#### · 7.1 Precautions for safe handling

Store locked up.  
Store in cool, dry place in tightly closed containers.  
Prevent formation of dust.

#### · Information about protection against explosions and fires:

Substance/product is oxidising when dry.

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

##### · Storage

· **Requirements to be met by storerooms and containers:** No special requirements.

##### · Information about storage in one common storage facility:

Store away from flammable substances.

· **Further information about storage conditions:** None.

##### · Storage class

LGK 6.1 C

(German Technical Rule for Hazardous Substance – TRGS 510)

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

### SECTION 8: Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see section 7.

#### · 8.1 Control parameters

· **Components with limit values that require monitoring at the workplace:**

· **Additional information:** The lists that were valid during the compilation were used as basis.

#### · 8.2 Exposure controls

##### · Personal protective equipment

##### · General protective and hygienic measures

The usual precautionary measures should be adhered to general rules for handling chemicals.  
Keep away from foodstuffs, beverages and food.  
Do not eat, drink or smoke while working.  
Take off immediately all contaminated clothing.  
Avoid close or long term contact with the skin.

##### · Breathing equipment:

Not necessary if room is well-ventilated.  
Use breathing protection in case of insufficient ventilation.  
Fine dust filter mask, filter P2 or P3

##### · Protection of hands:

Protective gloves.

The protective gloves to be used must comply with the specifications of the EC directive 89/686/EEC and the resultant standard EN 374.

This recommendation applies only to the product stated in the Safety Data Sheet and supplied by us as well as to the purpose specified by us.

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Only use chemical-protective gloves with CE-labelling of category III.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• **Material of gloves**

Nitrile rubber, NBR

Butyl rubber, BR

Avoid natural rubber gloves.

Recommended thickness of the material:  $\geq 0.38$  mm

• **Penetration time of glove material**

Value for permeation: Level  $\leq 6$  (480 min)

The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

• **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**

Synthetic gloves

Value for permeation: Level  $\leq 3$  (60 min)

$\geq 3$  (60 min)

• **Eye protection:** Safety glasses

• **Body protection:** Light weight protective clothing

**SECTION 9: Physical and chemical properties**

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

• **General Information**

• **Appearance:**

Form: Crystalline powder

Colour: Colourless

• **Odour:** Odourless

• **pH-value (560 g/l) at 25 °C:** 2.6

• **Change in condition**

Melting point/freezing point: Not determined

Initial boiling point and boiling range: Not determined

• **Flash point:** Not applicable

• **Inflammability (solid, gaseous)** Product is not inflammable.

• **Decomposition temperature:**  $> 180$  °C

• **Explosive properties:** Product is not explosive.

• **Critical values for explosion:**

Oxidising properties Yes

• **Density at 20 °C** 2.59 g/cm<sup>3</sup>

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· **Solubility in / Miscibility with Water:**

Soluble

· **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:**  
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**  
Toxic fumes may be released if heated above the decomposition point
- **10.4 Conditions to avoid** Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** None

### SECTION 11: Toxicological information

· **11.1 Information on toxicological effects**

- **Acute toxicity**  
Harmful if swallowed.

· **LD/LC50 values that are relevant for classification:**

**7775-27-1 disodium peroxodisulphate**

Oral	LD50	1000 mg/kg (rat)
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- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation**  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause an allergic skin reaction.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
No known symptoms to date.
- **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**  
May cause respiratory irritation.
- **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.

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### SECTION 12: Ecological information

- 12.1 Toxicity

- Aquatic toxicity:

<b>7775-27-1 disodium peroxodisulphate</b>	
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LC50/48 h	357 mg/l (Daphnia magna)
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- 12.2 Persistence and degradability Not determined
- 12.3 Bioaccumulative potential Not determined
- Behaviour in environmental systems: Not determined
- 12.4 Mobility in soil No further relevant information available.
- Ecotoxicological effects: No further relevant information available.
- Behaviour in sewage processing plants: Not determined
- Additional ecological information:
- General notes:  
Water hazard class 1 (German Regulation) (Self-assessment): Weakly water-endangering.
- 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 of together with household garbage. Do not allow product to reach sewage system.

Must be specially treated under adherence to official regulations.

- European waste catalogue

16 05 07*	discarded inorganic chemicals consisting of or containing dangerous substances
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- Uncleaned packagings:

- Recommendation:

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

Packagings that cannot be cleaned are to be disposed of in the same manner as the product.  
EAK-No. 15 01 10

- Recommended cleaning agent: Water, if necessary with cleaning agent.

### SECTION 14: Transport information

- 14.1 UN-Number

- ADR/RID, IMDG, IATA

UN 1505

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<ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR/RID, IMDG, IATA</b></li> </ul>	<p>SODIUM PERSULPHATE</p>
<ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR/RID, IMDG, IATA</b></li> </ul>	
	
<ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	<p>5.1 Oxidising substances. 5.1</p>
<ul style="list-style-type: none"> <li>· <b>14.4 Packing group</b></li> <li>· <b>ADR/RID, IMDG, IATA</b></li> </ul>	<p>III</p>
<ul style="list-style-type: none"> <li>· <b>14.5 Environmental hazards:</b></li> <li>· <b>Marine pollutant:</b></li> </ul>	<p>No</p>
<ul style="list-style-type: none"> <li>· <b>14.6 Special precautions for user</b></li> <li>· <b>Kemler Number:</b></li> <li>· <b>EMS Number:</b></li> </ul>	<p>Warning: Oxidising substances. 50 F-A,S-Q</p>
<ul style="list-style-type: none"> <li>· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b></li> </ul>	<p>Not applicable.</p>
<ul style="list-style-type: none"> <li>· <b>Transport/Additional information:</b></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>ADR/RID</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Remarks:</b></li> </ul>	<p>5 kg "Limited quantity" according to chapter 3.4 ADR, if carried in combination packagings with not more than 5 kgs per inner packaging and not more than 30 kgs per package.</p>
<ul style="list-style-type: none"> <li>· <b>IMDG</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Remarks:</b></li> </ul>	<p>5 kg "Limited quantity" according to chapter 3.4 IMDG, if carried in combination packagings with not more than 5 kg per inner packaging and not more than 30 kg per package</p>
<ul style="list-style-type: none"> <li>· <b>IATA</b></li> <li>· <b>Remarks:</b></li> </ul>	<p>Packing Instruction PAX 559, CAO 563</p>
<ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>	<p>UN1505, SODIUM PERSULPHATE, 5.1, III</p>

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### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations**
- **Water hazard class:** Water hazard class 1 (Self-assessment): weakly water-endangering.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**  
H272 May intensify fire; oxidiser.  
H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335 May cause respiratory irritation.
- **Recommended restriction of use** No public product, only for commercial use
- **Department issuing data specification sheet:**  
Laboratory  
Tel.: +49 (0)39291 425-15
- **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)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Ox. Sol. 2: Oxidizing solids – Category 2  
Acute Tox. 4: Acute toxicity – Category 4  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
Resp. Sens. 1: Respiratory sensitisation – Category 1  
Skin Sens. 1: Skin sensitisation – Category 1  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- **Sources**  
applicable EEC directives:

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- 1907/2006
- 1272/2008

Internal physical tests, MSDS of the ingredients,  
Information system on hazardous substances of the German Social Accident Insurance  
(GESTIS-database on hazardous substances), <http://www.dguv.de/ifa/en/gestis/stoffdb/index.jsp>

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

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