

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

Printing date 15.05.2024

Version number 59 (replaces version 58)

Revision: 15.05.2024

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

· **1.1 Product identifier**

· **Product name:** DPD No. 1 HR

· **Catalog number:**

00511501, 511500BT, 511501BT, SDT824, 00511509BT, 4511500BT, 4511501BT, 4511502BT, 511501-BU, 511502BT

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

· **Application of the substance / the preparation:** Reagent for water analysis

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

· **Supplier:**

Tintometer GmbH  
Schleefstraße 8-12  
44287 Dortmund  
Made in Germany  
www.lovibond.com

phone: +49 (0)231 94510-0  
e-mail: sales@lovibond.com

The Tintometer Limited  
Lovibond® House  
Sun Rise Way  
Amesbury  
Wiltshire SP4 7GR  
United Kingdom

phone : +44 1980 664800  
e-mail: SDS@lovibond.uk

· **Informing department:**

e-mail: sds@lovibond.com  
Product Safety Department

· **1.4 Emergency telephone number:**

+44 1235 239670  
Languages: English

#### SECTION 2: Hazards identification

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

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

The product is not classified as hazardous according to the GB CLP regulation.

· **2.2 Label elements**

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

· **Hazard pictograms** Void

· **Signal word** Void

· **Hazard statements** Void

· **Additional information:**

EUH210 Safety data sheet available on request.

· **2.3 Other hazards** No further relevant information available.

· **Results of PBT and vPvB assessment**

This mixture does not contain any substances that are assessed to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB), according to the criteria given in Annex XIII of Regulation (EC) No. 1907/2006.

· **Determination of endocrine-disrupting properties**

The product does not contain substances with endocrine disrupting properties.

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

· **3.2 Mixtures**

· **Description:** Mixture of organic and inorganic compounds

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· <b>Dangerous components:</b>		
CAS: 6283-63-2 EINECS: 228-500-6	N,N-diethylbenzene-1,4-diammonium sulphate (1:1) ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	2.5–5%
CAS: 77-92-9 EINECS: 201-069-1 Index No: 607-750-00-3 Reg.nr.: 01-2119457026-42-XXXX	citric acid ⚠ Eye Irrit. 2, H319; STOT SE 3, H335	0.1–1%

· **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** Instantly remove any clothing soiled by the product.

· **After inhalation** Supply fresh air.

· **After skin contact** Instantly wash with water and soap and rinse thoroughly.

· **After eye contact**

Rinse opened eye for several minutes under running water (at least 15 min). If symptoms persist, consult doctor.

· **After swallowing**

Rinse out mouth and then drink 1-2 glasses of water.

In case of persistent symptoms consult doctor.

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

irritating effects possible

allergic reactions

after swallowing of large amounts:

general feeling of sickness

thirst

sickness

vomiting

diarrhoea

after absorption:

methaemoglobinaemia

gastric pain

· **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 fighting measures that suit the environment.

Water, Carbon dioxide (CO<sub>2</sub>), Foam, Fire-extinguishing powder

· **For safety reasons unsuitable extinguishing agents**

For this substance / mixture no limitations of extinguishing agents are given.

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

combustible

Formation of toxic gases is possible during heating or in case of fire.

Can be released in case of fire:

Sulphur oxides (SO<sub>x</sub>)

nitrous gases

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

Phosphorus oxides (P<sub>x</sub>O<sub>x</sub>)

Dipotassium oxide

· **5.3 Advice for firefighters**

· **Protective equipment:**

Wear self-contained breathing apparatus.

Wear full protective suit.

· **Additional information**

Collect contaminated fire fighting water separately. It must not enter drains.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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 Ambient fire may liberate hazardous vapours.
 

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### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
  - **Advice for non-emergency personnel:** Wear protective equipment. Keep unprotected persons away.
  - **Advice for emergency responders:** Protective equipment: see section 8
  - **6.2 Environmental precautions:** Do not allow product to reach sewage system or water bodies.
  - **6.3 Methods and material for containment and cleaning up:**  
 Ensure adequate ventilation.  
 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**
  - **Advice on safe handling:** No special precautions necessary if used correctly.
  - **Hygiene measures:**  
 The usual precautionary measures should be adhered to general rules for handling chemicals.  
 Do not eat, drink or smoke when using this product.  
 Wash hands during breaks and at the end of the work.
  - **7.2 Conditions for safe storage, including any incompatibilities**
  - **Requirements to be met by storerooms and containers:** Store in cool location.
  - **Information about storage in one common storage facility:** Store away from oxidising agents.
  - **Further information about storage conditions:**  
 Protect from heat and direct sunlight.  
 Protect from the effects of light.  
 Store under dry conditions.  
 Protect from humidity and keep away from water.
  - **Recommended storage temperature:** 20°C +/- 5°C
  - **7.3 Specific end use(s)** No further relevant information available.
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### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Components 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 that were valid during the compilation were used as basis.
- **8.2 Exposure controls**
- **Engineering measures:**  
 Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.  
 See item 7.
- **Individual protection measures, such as personal protective equipment**  
 Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled.
- **Eye/face protection**  
 Safety glasses  
 use against the effects of fumes / dust  
 Use safety glasses that have been tested and approved in accordance with government standards such as EN 166.
- **Hand protection**  
 Preventive skin protection by use of skin-protecting agents is recommended.  
 After use of gloves apply skin-cleaning agents and skin cosmetics.
- **Material of gloves**  
 nitrile rubber, NBR  
 Recommended thickness of the material:  $\geq 0.11$  mm

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- **Penetration time of glove material**  
Value for the permeation: Level = 1 ( < 10 min )  
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Other skin protection (body protection):** Protective work clothing.
- **Breathing equipment:** Use breathing protection against the effects of fumes/dust/aerosol.
- **Recommended filter device for short term use:** Filter P1
- **Environmental exposure controls** Do not allow product to reach sewage system or water bodies.

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **Physical state** Solid.
- **Form:** Tablets
- **Colour:** White
- **Odour:** Odourless
- **Odour threshold:** Not applicable.
- **Melting point/Freezing point:** Not determined.
- **Boiling point or initial boiling point and boiling range** Not determined.
- **Flammability** combustible
- **Explosive properties:** The product is not capable of dust explosion in the form supplied; enrichment with fine dust causes risk of dust explosion  
The following applies in general to flammable organic substances / preparations: Dust explosion possible if in powder or granular form (fine distribution), mixed with air.
- **Lower and upper explosion limit**
- Lower: Not determined.
- Upper: Not determined.
- **Flash point:** Not determined.
- **Auto-ignition temperature:** Not applicable (solid).
- **Decomposition temperature:** Not determined.
- **pH (10.5 g/l) at 20°C** 6.3
- **Kinematic viscosity** Not applicable (solid).
- **Solubility**
- **Water:** Soluble
- **Partition coefficient n-octanol/water (log value)** Not applicable (mixture).
- **Vapour pressure:** Not applicable.
- **Density and/or relative density**
- **Density:** Not determined.
- **Relative density:** Not determined.
- **Relative gas density** Not applicable (solid).
- **Particle characteristics** Not determined.

#### · 9.2 Other information

- **Information with regard to physical hazard classes**
- **Corrosive to metals** Void
- **Other safety characteristics**
- **Oxidising properties:** none
- **Additional information**
- **Solids content:** 100 %

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** Dust can combine with air to form an explosive mixture.
- **10.2 Chemical stability** Stable at ambient temperature (room temperature).
- **10.3 Possibility of hazardous reactions**
- Reacts with acids, alkalis and oxidizing agents  
--> forms heat
- Reacts with certain metals
- Citric acid: Incompatible with bases, strong oxidising agents, amines. Contact with metal nitrates causes explosion hazard.
- Attacks aluminium, copper, zinc and their alloys - in case of moisture.
- Reacts with ammonia (NH<sub>3</sub>).

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- **10.4 Conditions to avoid** Strong heating (decomposition)
- **10.5 Incompatible materials:** aluminium, copper, zinc, metal ions
- **10.6 Hazardous decomposition products:** see section 5

### SECTION 11: Toxicological information

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

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

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

**CAS: 6283-63-2 N,N-diethylbenzene-1,4-diammonium sulphate (1:1)**

Oral	LD50	497 mg/kg (rat) (MERCK)
Dermal	LD50	1100 mg/kg (ATE)

**CAS: 77-92-9 citric acid**

Oral	LD50	3000 mg/kg (rat) (IUCLID)
Dermal	LD50	>2000 mg/kg (rat) (limit test: there were no deaths)

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

- **Information on components:**

CAS 6283-63-2: DPD may cause allergic skin reaction

Citric acid: A single drop of a 2% or 5% solution in water causes little or no irritation.

A 0.5% solution held in contact with the eye causes irreversible tissue damage to the cornea.

Citric Acid caused mild irritation when 500 mg was tested on rabbit skin in a 24-hour test.

(CHEMINFO, Canadian Centre for Occupational Health and Safety)

**CAS: 77-92-9 citric acid**

Irritation of skin	OECD 404	(rabbit: no irritation)
Irritation of eyes	OECD 492	(rabbit: severe irritations)

- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

- **Information on components:**

CAS 6283-63-2: Sensitization possible in predisposed persons.

**CAS: 77-92-9 citric acid**

Sensitisation	OECD 406	(guinea pig: negative) (EPA OPP 81-6: Guinea pig maximisation test)
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- **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.

- **Information on components:**

OECD 414: Teratogenicity testing

OECD 473: Mutagenicity testing

OECD 471, 474, 476, 487: Germ cell mutagenicity testing

**CAS: 77-92-9 citric acid**

OECD 471	(negative) (Bacterial Reverse Mutation Test - Ames test)
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- **STOT (specific target organ toxicity) -single exposure** Based on available data, the classification criteria are not met.
- **STOT (specific target organ toxicity) -repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

- **Information on likely routes of exposure**

CAS 6283-63-2 4-Amino-N,N-diethylaniline sulfate:

In analogy to CAS 93-05-0 Amino-N,N-diethylaniline at workplaces the main route of exposure is via the respiratory tract and the skin.

"The high systemic potential of Amino-N,N-diethylaniline observed in animal experiments after oral application of relatively low doses permits the assumption of an effective resorption via the digestive tract that must also be assumed for humans." [GESTIS]  
Under workplace conditions, inhalative exposure is the main route of exposure of citric acid. Inhalative exposure is possible in the form of dust or aerosols of aqueous solutions, although the warning irritant effect means that inhalation of very high concentrations is only to be expected accidentally.

Irrespective of this, citric acid is mainly ingested orally with food. [GESTIS]

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<p><b>Additional toxicological information:</b></p> <p><b>CAS: 6283-63-2 N,N-diethylbenzene-1,4-diammonium sulphate (1:1)</b></p> <p>(source: GESTIS) Main toxic effects of CAS 93-05-0 4-Amino-N,N-diethylaniline: Acute: Irritative effects to the mucosae and the skin, sensitising effects; Chronic: Skin diseases. Only insufficient information available on the systemic effects.</p> <p><b>CAS: 77-92-9 citric acid</b></p> <p>(source: GESTIS) Main toxic effects: Acute: Irritant effect on the eyes and upper respiratory tract; no evidence of systemic toxic effects under occupationally relevant exposure conditions chronic: irritative effects on mucous membranes and skin. Enamel damage, dermatitis (Merck)</p> <p>Further information: Depending on the pH value, dust or concentrated aqueous solutions are highly irritating to corrosive to the eye.</p>
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- **11.2 Information on other hazards**
- **Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.
- **Other information**  
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.  
According to the information available to us, the chemical, physical and toxicological properties of the substances mentioned in Chapter 3 have not been thoroughly investigated.

## SECTION 12: Ecological information

### · 12.1 Toxicity

<p><b>Aquatic toxicity:</b></p> <p><b>CAS: 77-92-9 citric acid</b></p> <table border="1"> <tr> <td>EC50</td> <td>~120 mg/l (Daphnia magna) (72 h) (IUCLID)</td> </tr> <tr> <td>EC5</td> <td>485 mg/l (Entosiphon sulcatum) (72h) (MERCK)</td> </tr> <tr> <td>LC50</td> <td>440–760 mg/l/96h (gold orfe) (IUCLID)</td> </tr> </table>	EC50	~120 mg/l (Daphnia magna) (72 h) (IUCLID)	EC5	485 mg/l (Entosiphon sulcatum) (72h) (MERCK)	LC50	440–760 mg/l/96h (gold orfe) (IUCLID)
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EC5	485 mg/l (Entosiphon sulcatum) (72h) (MERCK)					
LC50	440–760 mg/l/96h (gold orfe) (IUCLID)					

- **Bacterial toxicity:**  
sulphates toxic > 2.5 g/l

<p><b>CAS: 77-92-9 citric acid</b></p> <p>EC5 &gt;10000 mg/l (Pseudomonas putida) (16h (Lit.))</p>
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- **Other information:**  
Toxic for fish:  
Sulphates > 7 g/l

### · 12.2 Persistence and degradability

<p><b>CAS: 77-92-9 citric acid</b></p> <table border="1"> <tr> <td>OECD 301 B</td> <td>97 % / 28 d (readily biodegradable) (CO2 Evolution Test)</td> </tr> <tr> <td>OECD 302 B</td> <td>98 % / 2 d (readily eliminated from water) (Zahn-Wellens / EMPA Test)</td> </tr> </table>	OECD 301 B	97 % / 28 d (readily biodegradable) (CO2 Evolution Test)	OECD 302 B	98 % / 2 d (readily eliminated from water) (Zahn-Wellens / EMPA Test)
OECD 301 B	97 % / 28 d (readily biodegradable) (CO2 Evolution Test)			
OECD 302 B	98 % / 2 d (readily eliminated from water) (Zahn-Wellens / EMPA Test)			

### · 12.3 Bioaccumulative potential

- Pow = n-octanol/wasser partition coefficient  
log Pow 1-3 = Not worth-mentioning accumulating in organisms.  
log Pow < 1 = Does not accumulate in organisms.

<p><b>CAS: 6283-63-2 N,N-diethylbenzene-1,4-diammonium sulphate (1:1)</b></p> <p>log Pow 2.24 (.) (calculated)</p> <p><b>CAS: 77-92-9 citric acid</b></p> <p>log Pow -1.72 (.) (OECD 117, 20°C)</p>
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- **12.4 Mobility in soil** No further relevant information available.

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**12.5 Results of PBT and vPvB assessment**

This mixture does not contain any substances that are assessed to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB), according to the criteria given in Annex XIII of Regulation (EC) No. 1907/2006.

**12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.

**12.7 Other adverse effects**

Depending on the concentration, phosphorus and/or nitrogen compounds may contribute to the eutrophication of water supplies. Avoid transfer into the environment.

**Water hazard:**

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

Danger to drinking water if even small quantities leak into soil.

### SECTION 13: Disposal considerations

**13.1 Waste treatment methods**
**Recommendation**

Disposal must be made according to official regulations.

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

**European waste catalogue**

16 05 09	discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08
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**Uncleaned packagings:**
**Recommendation:** Disposal must be made according to official regulations.

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

### SECTION 14: Transport information

**14.1 UN number or ID number**
**ADR, IMDG, IATA** Void

**14.2 UN proper shipping name**
**ADR, IMDG, IATA** Void

**14.3 Transport hazard class(es)**
**ADR, IMDG, IATA**
**Class** Void

**14.4 Packing group**
**ADR, IMDG, IATA** Void

**14.5 Environmental hazards:** Not applicable.

**14.6 Special precautions for user** Not applicable.

**14.7 Maritime transport in bulk according to IMO instruments** Not applicable.

**Transport/Additional information:** Not dangerous according to the above specifications.

### SECTION 15: Regulatory information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
**Poisons Act UK**
**Regulated explosives precursors**

None of the ingredients is listed.

**Regulated poisons**

None of the ingredients is listed.

**Reportable explosives precursors**

None of the ingredients is listed.

**Reportable poisons**

None of the ingredients is listed.

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· <b>Regulation (EU) 2019/1148 on the marketing and use of explosives precursors</b> not regulated
· <b>Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals (PIC)</b> None of the ingredients is listed.
· <b>Regulation (EC) No 1334/2000 setting up a Community regime for the control of exports of dual-use items and technology:</b> None of the ingredients is listed.
· <b>Regulation (EC) No 273/2004 on drug precursors</b> None of the ingredients is listed.
· <b>Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors</b> None of the ingredients is listed.
· <b>Regulation (EC) No 1005/2009 on substances that deplete the ozone layer:</b> None of the ingredients is listed.
· <b>REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)</b> None of the ingredients is listed.
· <b>LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)</b> None of the ingredients is listed.
· <b>Substances of very high concern (SVHC) according to REACH, Article 57</b> This product does not contain any substances of very high concern above the legal concentration limit of $\geq 0.1\%$ (w / w).
· <b>Substances of very high concern (SVHC) according to UK REACH</b> This product does not contain any substances of very high concern above the legal concentration limit of $\geq 0.1\%$ (w / w).
· <b>Directive 2012/18/EU (SEVESO III):</b>
· <b>Named dangerous substances - ANNEX I</b> None of the ingredients is listed.
· <b>Information about limitation of use:</b> Not required.
· <b>15.2 Chemical safety assessment:</b> 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.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

· **Training hints** Provide adequate information, instruction and training for operators.

· **Relevant phrases**

H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

· **Abbreviations and acronyms:**

OECD: Organisation for Economic Co-operation and Development  
STOT: specific target organ toxicity  
SE: single exposure  
RE: repeated exposure  
EC50: half maximal effective concentration  
IC50: half maximal inhibitory concentration  
NOEL or NOEC: No Observed Effect Level or Concentration  
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
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  
SVHC: Substances of Very High Concern  
vPvB: very Persistent and very Bioaccumulative

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ATE: Acute toxicity estimate values  
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  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

**· Sources**

Data arise from safety data sheets, reference works and literature.  
ECHA: European CHemicals Agency <http://echa.europa.eu>  
GESTIS- Stoffdatenbank (Substance Database, Germany)  
IUCLID (International Uniform Chemical Information Database)

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

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