

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

Printing date 17.09.2015

Version number 4

Revision: 17.09.2015

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

- **1.1 Product identifier**
- **Product name:** DPD No.1
- **Catalog number:** 00511051, 511001BT, 511002BT, (4)511050BT, (4)511051BT, (4)511052BT, 511000BT, 00511059BT
- **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
Schleefstr. 8-12
DE-44287 Dortmund
Made in Germany
www.lovibond.com
- **Informing department:**
e-mail: produktsicherheit@tintometer.de
Product Safety Department
- **Contact for technical details:**
Technical Department
e-mail: technik@tintometer.de
- **1.4 Emergency telephone number:**
Poison Center Berlin, Germany
phone: 0049-30 30686 790
Languages: English and German

phone: +49 (0) 231 945100
E-Mail: sales@tintometer.de

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 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:**
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.

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Mixture of organic and inorganic compounds

Dangerous components:

CAS: 139-33-3 EINECS: 205-358-3 Reg.nr.: 01-2119486775-20-XXXX	disodium dihydrogenethylenediaminetetraacetate	⚠ Acute Tox. 4, H332	≤ 2.5%
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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.
- **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 minutes). 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:**
after swallowing:
gastric or intestinal trouble
cardiovascular disorders
thirst
gastric pain
general feeling of sickness
- **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.
- **5.2 Special hazards arising from the substance or mixture**
The product is not flammable
Can be released in case of fire:
Nitrogen oxides (NO_x)
Carbon monoxide (CO)
Sulphur dioxide (SO₂)
Sulphur oxides (SO_x)
nitrogen oxides (NO_x)
Phosphorus oxides (P_xO_x)
Dipotassium oxide
Sodium 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.
Ambient fire may liberate hazardous vapours.

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.

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SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
- **Advice on safe handling:** Prevent formation of dust.
- **Hygiene measures:**
The usual precautionary measures should be adhered to general rules for handling chemicals.
Wash hands during breaks and at the end of the work.
Do not eat, drink or smoke when using this product.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **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.
- **Storage class** 13
- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed containers.
Protect from heat and direct sunlight.
Protect from the effects of light.
Store under dry conditions.
Protect from humidity and keep away from water.
This product is hygroscopic.
- **Recommended storage temperature:** 20 °C +/- 5 °C
- **7.3 Specific end use(s)** No further relevant information available.

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.
- **DNELs**
Derived No Effect Level (DNEL)

CAS: 139-33-3 disodium dihydrogenethylenediaminetetraacetate

Oral	DNEL	25 mg/kg (Consumer / long-term / systemic effects)
Inhalative	DNEL	2.5 mg/m ³ (AKL)
		2.5 mg/m ³ (AKS)
		2.5 mg/m ³ (Worker / long-term / local effects)
		2.5 mg/m ³ (Worker / long-term / systemic effects)
		1.5 mg/m ³ (Consumer / acute / local effects)
		1.5 mg/m ³ (Consumer / acute / systemic effects)
		1.5 mg/m ³ (Consumer / long-term / local effects)
		1.5 mg/m ³ (Consumer / long-term / systemic effects)

- **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.
- **Personal protective equipment**
- **Breathing equipment:** Use breathing protection against the effects of fumes/dust/aerosol.
- **Protection of hands:**
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: ≥ 0.11 mm
- **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.
- **Eye protection:**
Safety glasses

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use against the effects of fumes / dust

· **Body protection:** Protective work clothing.· **Limitation and supervision of exposure into the environment:** 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

· Appearance:

Form / Physical state:	Tablets
Colour:	White

· **Odour:** Odourless· **Odour threshold:** Not applicable· **pH-value at 20 °C:** 6.3· **Melting point/Freezing point:** Not determined· **Initial boiling point and boiling range:** Not applicable
Decomposition· **Flash point:** Not applicable· **Flammability (solid, gas):** Not determined.· **Decomposition temperature:** Not determined.· **Auto-ignition temperature:** Product is not self-igniting.· **Explosive properties:** Product is not explosive.

· Flammability or explosive limits:

Lower: Not applicable

Upper: Not applicable

· **Oxidising properties:** none· **Vapour pressure:** Not applicable.· **Density:** Not determined· **Relative density:** Not determined.· **Vapour density:** Not applicable.· **Evaporation rate:** Not applicable.

· Solubility(ies):

Water: Partially insoluble.

· **Partition coefficient (n-octanol/water):** Not applicable.· **Viscosity:** Not applicable.

· Solvent content:

Organic solvents: 0.0 %

Solids content: 100.0 %

SECTION 10: Stability and reactivity

· **10.1 Reactivity** see section 10.3· **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

· **10.4 Conditions to avoid** Strong heating (decomposition)

· 10.5 Incompatible materials:

NH_x

oxidizing agents

· **10.6 Hazardous decomposition products:** see section 5

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SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values that are relevant for classification:

CAS: 139-33-3 disodium dihydrogenethylenediaminetetraacetate

Oral	LD50	2850 mg/kg (rat) (BASF-Test similar to OECD 401) (BASF-Test: 7 days; OECD 401: 14 days)
Inhalative	LC50	1.5 mg/l/4h (ATE) (Aerosol) (BASF: OECD 403 LC50 rat = > 1 - < 5 mg/l/6h)

- Primary irritant effect:
- Skin corrosion/irritation slight irritations possible
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Information on components:
DPD may cause allergic skin reaction

CAS: 139-33-3 disodium dihydrogenethylenediaminetetraacetate

Irritation of skin	OECD 404	(rabbit: no irritation)
Irritation of eyes	OECD 405	(rabbit: no irritation)

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

Information on components:

CAS: 139-33-3 disodium dihydrogenethylenediaminetetraacetate

Sensitisation	OECD 406	(guinea pig: negative)
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- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) The following statements refer to the mixture:
- 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 (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.

Additional toxicological 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.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

CAS: 139-33-3 disodium dihydrogenethylenediaminetetraacetate

EC50 (static)	> 100 mg/l/48h (Daphnia magna) (DIN 38412 Teil 11) (BASF)
NOEC	≥ 36.9 mg/l (zebrafish) (35d, OECD 210) (BASF; read across)
EC50	>100 mg/l/72 h (Scenedesmus subspicatus) (88/302/EWG, part C) (BASF; read across)
LC50 (static)	> 100 mg/l/96h (bluegill) (BASF, read across)

- Bacterial toxicity: sulphates toxic > 2.5 g/l
- Other information:
Toxic for fish:
sulphates > 7 g/l
- 12.2 Persistence and degradability No further relevant information available.

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· 12.3 Bioaccumulative potential	
CAS: 139-33-3 disodium dihydrogenethylenediaminetetraacetate	
log Pow	-4.3 (.) (BASF)
BCF	1.8 (bluegill) (conc. 0.08 mg/l, 28d) (ECHA, registrant: read across CAS 13235-36-4)
· 12.4 Mobility in soil No further relevant information available.	
· 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 Other adverse effects Depending on the concentration, phosphorus and/or nitrogen compounds may contribute to the eutrophication of water supplies.	
· Water hazard: Mixture (Self-assessment acc. VwVwS Annex 4, German regulation): Water hazard class 2: hazardous for water. 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 Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Disposal must be made according to official regulations.	
· European waste catalogue	
16 05 09	discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08
· 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	
· ADR,RID, ADN, IMDG, IATA	Void
· 14.2 UN proper shipping name	
· ADR,RID, ADN, IMDG, IATA	Void
· 14.3 Transport hazard class(es)	
· ADR,RID, ADN, IMDG, IATA	
· Class	Void
· 14.4 Packing group	
· ADR,RID, IMDG, IATA	Void
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	
	Not applicable.
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	
	Not applicable.
· Transport/Additional information:	
	Not dangerous according to the above specifications.

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* SECTION 15: Regulatory information

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

· Regulation (EC) No 689/2008 concerning the export and import of dangerous chemicals:

None of the ingredients is listed.

· Regulation (EC) No 1334/2000 setting up a Community regime for the control of exports of dual-use items and technology (Dual-Use):

None of the ingredients is listed.

· Regulation (EC) No 1005/2009 on substances that deplete the ozone layer:

None of the ingredients is listed.

· Directive 2012/18/EU (SEVESO III):

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **Information about limitation of use:** Not required.

· **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

H332 Harmful if inhaled.

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

· Abbreviations and acronyms:

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

EC50: effective concentration, 50 percent (in vivo)

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 européen sur le transport 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)

DNEL: Derived No-Effect Level (REACH)

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, Hazard Category 4

· Sources

Data arise from safety data sheets, reference works and literature.

IUCLID (International Uniform Chemical Information Database)

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