

Safety Data Sheet acc. to OSHA HCS (HazCom 2012)

Printing date 06/02/2017

Reviewed on 06/02/2017

1 Identification

- **Product identifier**
- **Trade name:** DPD No.1
- **Catalogue number:**
00511051, 511001BT, 511002BT, (4)511050BT, (4)511051BT, (4)511052BT, 511000BT, 00511059BT, 00511009BT
- **Application of the substance / the mixture:** Reagent for water analysis
- **Manufacturer/Supplier:**
Tintometer Inc.
6456 Parkland Drive
Sarasota, FL 34243
USA
phone: (941) 756-6410
fax: (941) 727-9654
www.lovibond.us
Made in Germany
- **Emergency telephone number:** + 1 866 928 0789 (English, French, Spanish)

2 Hazard(s) identification

- **Classification of the substance or mixture** The product is not classified as hazardous.
- **Label elements**
- **GHS label elements** none
- **Hazard pictograms** none
- **Signal word** none
- **Hazard statements** none
- **Other hazards** No further relevant information available.

3 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:** Mixture of organic and inorganic compounds
- **Composition and Information on Ingredients:** none

4 First-aid measures

- **Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** Supply fresh air.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
Rinse opened eye for several minutes (at least 15 min) under running water. If symptoms persist, consult a doctor.
- **After swallowing:**
Rinse out mouth and then drink 1-2 glasses of water.
If symptoms persist consult doctor.
- **Most important symptoms and effects, both acute and delayed**
after swallowing:
thirst
gastric or intestinal disorders
sickness
abdominal pain
general feeling of sickness
irritations
cardiovascular disorders

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· **Indication of any immediate medical attention and special treatment needed:** No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture**
 - The product is not combustible.
 - Formation of toxic gases is possible during heating or in case of fire.
 - nitrous gases
 - Sulfur oxides (SO_x)
 - Nitrogen oxides (NO_x)
 - Phosphorus oxides (P_xO_x)
 - Potassium oxide
 - Sodium oxide
- **Advice for firefighters**
- **Protective equipment:**
 - Wear self-contained respiratory protective device.
 - Wear fully protective suit.
- **Additional information**
 - Collect contaminated fire fighting water separately. It must not enter the sewage system.
 - Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
 - Ambient fire may liberate hazardous vapours.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
- **Advice for non-emergency personnel:** No special measures required.
- **Advice for emergency responders:** Protective equipment: see section 8
- **Environmental precautions:** Do not allow product to reach sewage system or any water course.
- **Methods and material for containment and cleaning up:**
 - Ensure adequate ventilation.
 - Pick up mechanically.
 - Dispose contaminated material as waste according to item 13.
- **Reference to other sections**
 - See Section 8 for information on personal protection equipment.
 - See Section 13 for disposal information.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
- **Advice on safe handling:** No special precautions are necessary if used correctly.
- **Hygiene measures:**
 - The usual precautionary measures for handling chemicals should be followed.
 - Wash hands before breaks and at the end of work.
 - Do not eat, drink or smoke when using this product.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Store away from oxidizing agents.
- **Further information about storage conditions:**
 - Store in cool, dry conditions in well sealed receptacles.
 - Protect from heat and direct sunlight.
 - Protect from exposure to the light.
 - Store in dry conditions.
 - Protect from humidity and water.
 - This product is hygroscopic.
- **Recommended storage temperature:** 20 °C +/- 5 °C (approx. 68°F)

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

8 Exposure controls/personal protection

- **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 creation were used as basis.
- **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 respiratory protective device against the effects of fumes/dust/aerosol.
- **Recommended filter device for short term use:** Filter P1
- **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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**
Safety glasses
use against the effects of fumes / dust
- **Body protection:** Protective work clothing
- **Limitation and supervision of exposure into the environment:** No further relevant information available.

9 Physical and chemical properties

• Information on basic physical and chemical properties	
• Appearance:	
Form / Physical state:	Tablets
Color:	White
• Odor:	Odorless
• Odor threshold:	Not applicable.
• pH-value (13.5 g/l) at 20 °C (68 °F):	6.3
• Melting point/freezing point:	Not determined.
• Initial boiling point and boiling range:	Not determined.
• Flash point:	Not applicable.
• Flammability (solid, gas):	The product is not combustible.
• Ignition temperature:	Not applicable.
• Decomposition temperature:	Not determined.
• Auto-ignition temperature:	Product is not self-igniting.
• Danger of explosion:	Product does not present an explosion hazard.
• Flammability or explosive limits:	
Lower:	Not applicable.
Upper:	Not applicable.
• Oxidizing properties:	none
• Vapor Pressure:	Not applicable.
• Density:	Not determined.
• Relative density:	Not determined.
• Vapor density:	Not applicable.

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· Evaporation rate:	Not applicable.
· Solubility(ies) Water:	Soluble.
· Partition coefficient (n-octanol/water):	Not applicable.
· Viscosity:	Not applicable.
· Solvent content: Organic solvents: Solids content:	0.0 % 100.0 %
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** Dust can combine with air to form an explosive mixture.
- **Chemical stability** Stable at ambient temperature (room temperature).
- **Possibility of hazardous reactions**
Reacts with acids, alkalis and oxidizing agents.
--> Forms heat.
Reacts with ammonia (NH₃).
- **Conditions to avoid** Strong heating (decomposition)
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** see section 5

*11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.
- **Primary irritant effect:**
- **on the skin:** Based on available data, the classification criteria are not met.
- **on the eye:** Based on available data, the classification criteria are not met.
- **Information on components:** CAS 6283-63-2: DPD may cause allergic skin reaction
- **Sensitization:** Based on available data, the classification criteria are not met.
- **Information on components:** CAS 6283-63-2: Sensitization possible in predisposed persons.
- **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

CAS: 999-99-9	one or more ingredient(s) Group 3: Not classifiable as to carcinogenicity to humans
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· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **Other information:** see section 8 / 15· **Synergistic Products:** None

- **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.

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- **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.

12 Ecological information

- **Toxicity**

- **Aquatic toxicity:** No further relevant information available.

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

- **Other information:**

Toxic for fish:

sulfates > 7 g/l

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

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

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

- **Other adverse effects**

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

13 Disposal considerations

- **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.

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

<ul style="list-style-type: none"> · UN-Number · DOT, IMDG, IATA 	none
<ul style="list-style-type: none"> · UN proper shipping name · DOT, IMDG, IATA 	none
<ul style="list-style-type: none"> · Transport hazard class(es) · DOT, IMDG, IATA · Class 	none
<ul style="list-style-type: none"> · Packing group · DOT, IMDG, IATA 	none
<ul style="list-style-type: none"> · Environmental hazards: 	Not applicable.
<ul style="list-style-type: none"> · Special precautions for user 	Not applicable.
<ul style="list-style-type: none"> · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	Not applicable.
<ul style="list-style-type: none"> · Transport/Additional information: 	Not dangerous according to the above specifications.

*15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**

- **Sara**

- **Section 355 (Extremely hazardous substances):**

None of the ingredients is listed.

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<ul style="list-style-type: none"> • Section 313 (Specific toxic chemical listings): None of the ingredients is listed.
<ul style="list-style-type: none"> • TSCA (Toxic Substances Control Act): CAS No. 6283-63-2 listed under CAS No. 6065-27-6 1,4-Benzenediamine, N1,N1-diethyl-, sulfate (1:?) All ingredients are listed.
<ul style="list-style-type: none"> • Proposition 65
<ul style="list-style-type: none"> • Chemicals known to cause cancer: None of the ingredients is listed.
<ul style="list-style-type: none"> • Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed.
<ul style="list-style-type: none"> • Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed.
<ul style="list-style-type: none"> • Chemicals known to cause developmental toxicity: None of the ingredients is listed.
<ul style="list-style-type: none"> • New Jersey Right-to-Know List: None of the ingredients is listed.
<ul style="list-style-type: none"> • New Jersey Special Hazardous Substance List: None of the ingredients is listed.
<ul style="list-style-type: none"> • Pennsylvania Right-to-Know List: CAS: 7757-82-6 sodium sulphate
<ul style="list-style-type: none"> • Pennsylvania Special Hazardous Substance List: CAS: 7757-82-6 sodium sulphate
<ul style="list-style-type: none"> • EPA (Environmental Protection Agency) None of the ingredients is listed.
<ul style="list-style-type: none"> • NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed.
<ul style="list-style-type: none"> • Information about limitation of use: Not required.
<ul style="list-style-type: none"> • Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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.

- **Date of preparation / last revision** 06/02/2017 / 3

- **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

ACGIH® - American Conference of Governmental Industrial Hygienists

•A1 - Confirmed human carcinogen

•A2 - Suspected human carcinogen

•A3 - Confirmed animal carcinogen with unknown relevance to humans

•A4 - Not classifiable as a human carcinogen

•A5 - Not suspected as a human carcinogen

IARC - International Agency for Research on Cancer

•Group 1 - Carcinogenic to humans

•Group 2A - Probably carcinogenic to humans

•Group 2B - Possibly carcinogenic to humans

•Group 3 - Not classifiable as to carcinogenicity to humans

•Group 4 - Probably not carcinogenic to humans

NTP - National Toxicology Program, U.S. Department of Health and Human Services

•Group K - Known to be Human Carcinogens

•Group R - Reasonably Anticipated to be Human Carcinogens

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

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DOT: US Department of Transportation
IATA: International Air Transport Association
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)
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit

- **Sources** Data arise from safety data sheets, reference works and literature.
- *** Data compared to the previous version altered.**

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