

1. PRODUCT AND COMPANY IDENTIFICATION

1.1. Product Identifiers

Product code RW-230-02
Product name DPD-2 Total chlorine reagent powder

1.2. Alternate product names None

1.3. Relevant identified uses of the substance or mixture and used advised against

Identified Uses Testing for Total Chlorine in water sample.

1.4. Details of the supplier of the safety data sheet

Distributor Navien, Inc. | www.navieninc.com
20 Goodyear, Irvine, CA USA 92618
Navien Technical Support Team: 1-800-519-8794
Email: CAtechsupport@navien.com | NJtechsupport@navien.com

Manufacturer WET International
316 Roma Jean Parkway, Streamwood, IL USA 60107
(630) 540-2113

1.5. Emergency telephone number

Emergency phone# Infotrac: (800) 535-5053

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Skin irritation Cat. 2
Eye Irritation Cat. 2A

2.2. GHS Label elements, including precautionary statements



Pictogram:

Signal Word: Warning

Hazard Statement(s)

Causes skin irritation. Causes serious eye irritation

Precautionary Statement(s)

Wear protective gloves / protective clothing / eye protection / face protection. Call a POISON CENTER or doctor/physician if you feel unwell. Take off contaminated clothing and wash before reuse. Wear eye protection. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

2.3. Hazards not otherwise classified (HNOC) or not covered by GHS

MAY CAUSE EYE AND RESPIRATORY TRACT IRRITATION
MAY CAUSE ALLERGIC SKIN REACTION

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance/Mixture

| Chemical | CAS No. | Percentage | Classification | Other Limits |
|--------------------------------|-----------|-------------|---|--|
| Potassium Iodide | 7681-11-0 | 20.0 - 30.0 | Harmful if swallowed Causes eye and skin irritation Experimental teratogen. Experimental mutagen. | LD50: Oral Human LD50 = 500 - 5000 mg/kg; Oral Rat LD50 = 2779 mg/kg; Oral Mouse LD50 = 1862 mg/kg; Oral Mouse LD50 = 1000 mg/kg LC50: None reported TLV: 10 mg/m3 as inhalable dust; 3 mg/m3 as respirable dust PEL: 15 mg/m3 as total dust; 5 mg/m3 as respir |
| N,N-Diethyl-p-Phenylenediamine | 536-47-0 | 1.0 - 5.0 | May cause sensitization. May cause irritation. | LD50: Oral rat (female) LD50 = 695 mg/kg; oral rat (male and female) LD50 = 970 mg/kg. LC50: None reported TLV: 10 mg/m3 as inhalable dust; 3 mg/m3 as respirable dust PEL: 15 mg/m3 as inhalable dust; 5 mg/m3 as respirable dust |
| Sodium Phosphate, Dibasic | 7558-79-4 | 20.0 - 30.0 | May cause eye irritation. May cause skin irritation. | LD50: Oral rat LD50 = 17 g/kg LC50: None reported TLV: 10 mg/m3 as inhalable dust; 3 mg/m3 as respirable dust |

| | | | | |
|--|-----------|-------|-----------------------|---|
| | | | | PEL: 15 mg/m ³ as inhalable dust; 5 mg/m ³ as respirable dust |
| Ethylenediaminetetraacetic Acid, Disodium Salt | 6381-92-6 | < 1.0 | May cause irritation. | LD50: Oral rat LD50 = 2000 mg/kg LC50: None reported TLV: 10 mg/m ³ as inhalable dust; 3 mg/m ³ as respirable dust PEL: 15 mg/m ³ as total dust; 5 mg/m ³ as respirable dust |
| | | | | |

4. FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation

Very large doses may cause: respiratory tract irritation Effects similar to those of ingestion.

Ingestion

May cause iodism, which symptoms include skin rash, conjunctivitis, runny nose, sneezing, bronchitis, headache, fever and irritation of mucous membranes. DPD Oral rat LD50 studies revealed decreased locomotor activity, depressed respiration, muscle spasms, loss of righting reflex and death. Autopsies revealed ulcerated stomach, enteritis, gas and congested lungs. Large doses may cause: lethargy loss of strength loss of coordination difficult breathing diarrhea

Skin Contact

May cause irritation

Eye Contact

May cause irritation

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

Chronic overexposure may cause allergic skin reactions, hypothyroidism, liver damage.

DPD may cause allergic skin reactions in some people causing severe skin rashes and itching.

Iodines overdose, 'iodism', may cause skin rash, runny nose, headaches, fever and bronchitis.

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

No data available

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Use media appropriate to surrounding fire condition

5.2. Special hazards arising from the substance or mixture

Can burn in fire, releasing toxic vapors. Material is not classified as flammable according to GHS

criteria. During a fire, this product decomposes to form toxic gases.

5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand and full protective gear.

5.4. Further information

No data available

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Only persons properly qualified to respond to an emergency involving hazardous substances may respond to a spill according to federal regulations (OSHA 29 CFR 1910.120(a)(v)) and per your company's emergency response plan and guidelines/procedures. See Section 13, Special Instructions for disposal assistance. Outside of the US, only persons properly qualified according to state or local regulations should respond to a spill involving chemicals.

6.2. Environmental precautions

No ecological data available for this product. Mobility in soil: No data available Do not release into the environment.

Do not place in landfill. Recycle appropriately.

6.3. Methods and materials for containment and cleaning up

Stop spilled material from being released to the environment. Releases of this material may contaminate the environmen

6.4. Reference to other sections

See section 8 and 13 for further information

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid contact with eyes skin clothing Do not breathe dust. Wash thoroughly after handling. Maintain general industrial hygiene practices when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Store between 10° and 25°C. Protect from: light heat moisture

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

See section 3.

8.2. Exposure controls

Appropriate engineering controls

Have an eyewash station nearby. Use general ventilation to minimize exposure to mist, vapor or dust.

Personal protective equipment

Eye/face protection

safety glasses with top and side shields

Skin protection

nitrile gloves In the EU, the selected gloves must satisfy the specifications of EU Directive 89/686/EEC and standard EN 374 derived from it. lab coat

Body protection

same as skin

Respiratory protection

NA

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| | |
|--|--|
| Appearance | White or light pink powder |
| Odor | Odorless |
| Odor threshold | No data available |
| pH | 6.35 (1% solution) |
| Melting point/freezing point | Not applicable |
| Initial boiling point and boiling range | Not applicable |
| Flash point | Not applicable |
| Evaporation rate | Not applicable |
| Flammability (solid, gas) | Can burn in fire, releasing toxic vapors. Material is not classified as flammable according to GHS criteria. During a fire, this product decomposes to form toxic gases. |
| Upper/lower flammability or explosive limits | No data available |
| Vapor pressure | No data available |
| Vapor density | No data available |
| Relative density | 1.79 |
| Water solubility | Soluble |
| Partition coefficient: n-octanol/water | Not determined |
| Auto-ignition temperature | Not determined |
| Decomposition temperature | Not determined |

10. STABILITY AND REACTIVITY

10.1. Reactivity

This product is stable and nonreactive under normal conditions of use, storage, transport.

10.2. Chemical stability

Stable when stored under proper conditions

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

Exposure to light. Excess moisture Extreme temperatures

10.5. Incompatible materials

Incompatible with: oxidizers

10.6. Hazardous decomposition products

Heating to decomposition releases toxic and/or corrosive fumes of: carbon dioxide carbon monoxide iodine compounds phosphorus oxides potassium oxide nitrogen oxides

11. TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects****Acute toxicity**

Route Data Given Below Based on classification principles, the classification criteria are not met.

Oral Rat LD50 = 7000 mg/kg (male); Oral Rat (female) LD50 = 4700 mg/kg.

Skin corrosion/irritation

Irritating to skin.

Serious eye damage/eye irritation

Irritating to eyes.

Respiratory or skin sensitization

Based on classification principles, the classification criteria are not met.

Potassium iodide may cause allergic skin reactions in already sensitized individuals.

Germ cell mutagenicity

No data available

Carcinogenicity

This product does NOT contain any OSHA listed carcinogens.

This product does NOT contain any IARC listed chemicals.

This product does NOT contain any NTP listed chemicals.

Reproductive toxicity

No data available

Specific target organ toxicity – single exposure

Based on classification principles, the classification criteria are not met.

Specific target organ toxicity – repeated exposure

Based on classification principles, the classification

criteria are not met.

Aspiration hazard

No data available

Additional information

No data available

12. ECOLOGICAL INFORMATION

12.1. Ecotoxicity (Aquatic and Terrestrial)

No ecological data available for this product. Mobility in soil: No data available Do not release into the environment. Do not place in landfill. Recycle appropriately. Method Used for Estimation of Aquatic Toxicity of Mixture Summation Method M-factor (Multiplier) for highly toxic ingredients: 1

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Other adverse effects

EDTA, disodium salt: 72 hr Green algae ErC50 = 10-100 mg/L. DPD Salt: 48 hr

Daphnia magna EC50 = 10.8 mg/L

CEPA categorization for ingredients are as follows:

Potassium iodide: Persistent and inherently toxic to aquatic organisms (PiT). EDTA, disodium salt: Not persistent,

bioaccumulative or inherently toxic to aquatic organisms

13. DISPOSAL CONSIDERATIONS

13.1. Disposal methods

: Dilute to 3 to 5 times the volume with cold water. If permitted by regulation, Open cold water tap completely, slowly pour the material to the drain. Allow cold water to run for 5 minutes to completely flush the system. Otherwise, Check with national, local municipal and state authorities and waste contractors for pertinent local information on the disposal of this article.

14. TRANSPORT INFORMATION

14.1. DOT (U.S. Department of Transportation)

UN number

N/A

| | |
|----------------------------|-----|
| UN proper shipping name | N/A |
| Transport hazard class(es) | N/A |
| Packing group | N/A |
| Reportable Quantity (RQ) | N/A |
| Marine Pollutant | No |
| Poison Inhalation Hazard | No |

14.2. IMDG (International Maritime Dangerous Goods)

| | |
|----------------------------|-----|
| UN number | N/A |
| UN proper shipping name | N/A |
| Transport hazard class(es) | N/A |
| Packing group | N/A |
| Marine Pollutant | No |

14.3. IATA (International Air Transport Association)

| | |
|----------------------------|-----|
| UN number | N/A |
| UN proper shipping name | N/A |
| Transport hazard class(es) | N/A |
| Packing group | N/A |

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/substance specific legislation

CERCLA RQ: No

TSCA: All ingredients are listed on the TSCA inventory.

Prop 65: No Prop. 65 listed chemicals are present in this product.

SARA 311/312: Immediate (Acute) Health Hazard

SARA 313 Chemicals: This product does NOT contain any chemical subject to the reporting requirements of Section 313 of Title III of SARA.

State Right to Know: Potassium Iodide/7681-11-0, N,N-Diethyl-p-Phenylenediamine/536-47-0, Sodium Phosphate, Dibasic/, Ethylenediaminetetraacetic Acid, Disodium Salt/6381-92-6, /7558-79-4

Other information: NA

Please consult relevant federal and local regulations for additional details.

16. OTHER INFORMATION

HMIS Rating

| | |
|---------------|---|
| Health hazard | 1 |
| Flammability | 1 |

| | |
|---------------------|---|
| Physical hazard | 0 |
| Personal protection | |

NFPA Rating

| | |
|-------------------|---|
| Health hazard | 1 |
| Fire hazard | 1 |
| Reactivity hazard | 0 |
| Specific hazard | 0 |

This product has been classified and labeled in accordance with the requirements of GHS (ST/SG/AC.10/36/Add.3). It is offered under the interim policy that was established by Health Canada permitting use of GHS-formatted safety data sheets in Canada prior to revision of CPR to GHS. It is offered under exemption from WHMIS labeling as specified in the Controlled Products Regulation (CPR) Section 17.

Preparation Information

WET International
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