1 Identification

· Product identifier
· Trade name: **Paragon BWT**
· Article number: 13193
· Details of the supplier of the safety data sheet
· Manufacturer/Supplier:
  Diamond Chemical Company Inc.
  Corporate Headquarters
  Union Ave & DuBois Street
  EAST RUTHERFORD, NJ 07073
  USA
  Telephone: 201-935-4300
· Information department: Product safety department
· Emergency telephone number: INFOTRAC - 1-800-535-5053

2 Hazard(s) identification

· Classification of the substance or mixture
  - GHS08 Health hazard
  - Repr. 2 H361 Suspected of damaging fertility or the unborn child.
  - GHS05 Corrosion
  - Skin Corr. 1A H314 Causes severe skin burns and eye damage.
  - Eye Dam. 1 H318 Causes serious eye damage.

· Label elements
· GHS label elements
  The product is classified and labeled according to the Globally Harmonized System (GHS).
· Hazard pictograms
  - GHS05
  - GHS08

· Signal word Danger
· Hazard statements
  Causes severe skin burns and eye damage.
  Suspected of damaging fertility or the unborn child.
· Precautionary statements
  If medical advice is needed, have product container or label at hand.
  Keep out of reach of children.
  Read label before use.
  Do not breathe dusts or mists.
  Wear protective gloves.
Trade name: Paragon BWT

Wear eye protection / face protection. Wash thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.
Specific treatment (see on this label).
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Wash contaminated clothing before reuse.
IF exposed or concerned: Get medical advice/attention.
If swallowed: Rinse mouth. Do NOT induce vomiting. Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:
- **NFPA ratings (scale 0 - 4)**
  - Health = 3
  - Fire = 0
  - Reactivity = 0
- **HMIS-ratings (scale 0 - 4)**
  - HEALTH
    - Health = *4
  - FIRE
    - Fire = 0
  - REACTIVITY
    - Reactivity = 0

Other hazards
- Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.

3 Composition/information on ingredients

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

- **Components:**
  - 1310-58-3 potassium hydroxide Prop.%
  - 7757-83-7 sodium sulphite Prop.%
  - 9003-04-7 Poly (acrylic acid, sodium salt) solution Prop.%
  - 110-91-8 morpholine Prop.%
  - 108-91-8 cyclohexylamine Prop.%

4 First-aid measures

- **Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
Trade name: Paragon BWT

- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Drink copious amounts of water and provide fresh air. Immediately call a doctor.
- Information for doctor:
  - Most important symptoms and effects, both acute and delayed
    No further relevant information available.
  - Indication of any immediate medical attention and special treatment needed
    No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
  - Suitable extinguishing agents:
    CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture
  No further relevant information available.
- Advice for firefighters
  - Protective equipment: No special measures required.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
  Wear protective equipment. Keep unprotected persons away.
- Environmental precautions:
  - Dilute with plenty of water.
    Do not allow to enter sewers/surface or ground water.
- Methods and material for containment and cleaning up:
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
    Use neutralizing agent.
    Dispose contaminated material as waste according to item 13.
    Ensure adequate ventilation.
- Reference to other sections
  See Section 7 for information on safe handling.
  See Section 8 for information on personal protection equipment.
  See Section 13 for disposal information.

7 Handling and storage

- Handling:
  - Precautions for safe handling
    Ensure good ventilation/exhaustion at the workplace.
    Prevent formation of aerosols.
  - Information about protection against explosions and fires
    No special measures required.
- Conditions for safe storage, including any incompatibilities
  - Storage:
    - Requirements to be met by storerooms and receptacles
      No special requirements.
    - Information about storage in one common storage facility
      Not required.
8 Exposure controls/personal protection

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

- **Control parameters**

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

    | Substance | REL Ceiling limit value: | TLV Ceiling limit value: |
    |-----------|--------------------------|--------------------------|
    | 1310-58-3 potassium hydroxide | 2 mg/m³ | 2 mg/m³ |
    | 110-91-8 morpholine | | |
    | PEL Long-term value: 70 mg/m³, 20 ppm Skin | | |
    | REL Short-term value: 105 mg/m³, 30 ppm | | |
    | Long-term value: 70 mg/m³, 20 ppm Skin | | |
    | TLV Long-term value: 71 mg/m³, 20 ppm Skin | | |
    | 108-91-8 cyclohexylamine | | |
    | REL Long-term value: 40 mg/m³, 10 ppm Skin | | |
    | TLV Long-term value: 41 mg/m³, 10 ppm Skin | | |

- **Additional information:** The lists that were valid during the creation were used as basis.

- **Exposure controls**

  - **Personal protective equipment:**

    - **General protective and hygienic measures:**
      - Keep away from foodstuffs, beverages and feed.
      - Immediately remove all soiled and contaminated clothing.
      - Wash hands before breaks and at the end of work.
      - Avoid contact with the eyes and skin.

    - **Breathing equipment:**
      - In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

    - **Protection of hands:**

      The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
      
      Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

    - **Material of gloves:**
      - The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several
substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:**

Tightly sealed goggles

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### 9 Physical and chemical properties

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<td>Form:</td>
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<td>Color:</td>
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<td>Odor:</td>
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<td>Odour threshold:</td>
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| pH-value at 20 °C (68 °F): | 13.5 |

<table>
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<th>Change in condition</th>
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<tr>
<td>Melting point/Melting range:</td>
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<td>Boiling point/Boiling range:</td>
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| Flash point: | Not applicable. |
| Flammability (solid, gaseous): | Not applicable. |

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<thead>
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<th>Ignition temperature:</th>
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<td>Decomposition temperature:</td>
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<td>Lower:</td>
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| Vapor pressure at 20 °C (68 °F): | 23 hPa (17 mm Hg) |

| Density at 20 °C (68 °F): | 1.16 g/cm³ (9.68 lbs/gal) |
| Relative density: | Not determined. |
| Vapour density: | Not determined. |
| Evaporation rate: | Not determined. |

| Solubility in / Miscibility with Water: | Fully miscible. |
| Partition coefficient (n-octanol/water): | Not determined. |
10 Stability and reactivity

11 Toxicological information

12 Ecological information
13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- **Uncleaned packagings:**
  - **Recommendation:** Disposal must be made according to official regulations.
  - **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- **UN-Number**
  - DOT: UN1760
  - IMDG, IATA: UN1719

- **UN proper shipping name**
  - DOT: Compounds, cleaning liquid (potassium hydroxide) (Potassium hydroxide, Morpholine)
  - IMDG, IATA: CAUSTIC ALKALI LIQUID, N.O.S. (POTASSIUM HYDROXIDE, MORPHOLINE)
Trade name: Paragon BWT

- Transport hazard class(es)
  - DOT
  - IMDG, IATA
  - Class
    - 8 Corrosive substances
  - Label
    - 8
  - Packing group
    - DOT, IMDG, IATA
    - II

- Environmental hazards:
  - Marine pollutant:
    - No

- Special precautions for user
  - Warning: Corrosive substances
  - Danger code (Kemler):
    - 80
  - EMS Number:
    - F-A,S-B
  - Segregation groups
    - Alkalis

- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
  - Not applicable.

- Transport/Additional information:
  - DOT
  - Quantity limitations
    - On passenger aircraft/rail: 1 L
    - On cargo aircraft only: 30 L
  - IMDG
    - Limited quantities (LQ)
      - 1L
      - Code: E2
    - Excepted quantities (EQ)
      - Maximum net quantity per inner packaging: 30 ml
      - Maximum net quantity per outer packaging: 500 ml
  - UN "Model Regulation"
    - UN1719, Caustic alkali liquids, n.o.s. (Potassium hydroxide, Morpholine), 8, II
15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara
- Section 355 (extremely hazardous substances):
  - 108-91-8 cyclohexylamine
- Proposition 65
  - Chemicals known to cause cancer:
    - None of the ingredients is listed.
  - Chemicals known to cause reproductive toxicity for females:
    - None of the ingredients is listed.
  - Chemicals known to cause reproductive toxicity for males:
    - None of the ingredients is listed.
  - Chemicals known to cause developmental toxicity:
    - None of the ingredients is listed.
- Carcinogenic categories
  - EPA (Environmental Protection Agency)
    - None of the ingredients is listed.
  - TLV (Threshold Limit Value established by ACGIH)
    - 110-91-8 morpholine A4
    - 108-91-8 cyclohexylamine A4
  - NIOSH-Ca (National Institute for Occupational Safety and Health)
    - None of the ingredients is listed.
- GHS label elements
  - The product is classified and labeled according to the Globally Harmonized System (GHS).
  - Hazard pictograms
    - GHS05
    - GHS08
- Signal word Danger
- Hazard statements
  - Causes severe skin burns and eye damage.
  - Suspected of damaging fertility or the unborn child.
- Precautionary statements
  - If medical advice is needed, have product container or label at hand.
  - Keep out of reach of children.
  - Read label before use.
  - Do not breathe dusts or mists.
  - Wear protective gloves.
  - Wear eye protection / face protection.
  - Wash thoroughly after handling.
  - Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a poison center/doctor.

Specific treatment (see on this label).

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Wash contaminated clothing before reuse.

IF exposed or concerned: Get medical advice/attention.

If swallowed: Rinse mouth. Do NOT induce vomiting.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

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.

Department issuing SDS: Environment protection department.

Contact: Environmental Department

Date of preparation / last revision 05/05/2015 / -

Abbreviations and acronyms:

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

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Repr. 2: Reproductive toxicity, Hazard Category 2