SAFETY DATA SHEET

OPTIGUARD MCA4288

1. Identification

Product identifier

OPTIGUARD MCA4288

Other means of identification

None.

Version #

1.0

Prepared by

This SDS has been prepared by GE Water & Process Technologies Regulatory Department (1-215-355-3300).

Revision date

Sep-14-2016

Supersedes date

--

Recommended use

Internal boiler treatment

Recommended restrictions

None known.

Company/undertaking identification

GE Water & Process Technologies Canada

3239 Dundas Street West

Oakville, Ontario, L6M 4B2

T 905-465-3030

Emergency telephone

(800) 877-1940

2. Hazard(s) identification

Physical hazards

Corrosive to metals

Category 1

Health hazards

Skin corrosion/irritation

Category 1B

Serious eye damage/eye irritation

Category 1

Specific target organ toxicity, single exposure

Category 3 respiratory tract irritation

Label elements

Signal word

Danger

Hazard statement

May be corrosive to metals. Causes severe skin burns and eye damage. Causes serious eye damage. May cause respiratory irritation.

Precautionary statement

Prevention

Keep only in original container. Do not breathe mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

Response

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. If inhaled: Remove person to fresh air and keep comfortable for breathing. 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. Wash contaminated clothing before reuse. Absorb spillage to prevent material-damage.
Storage
Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store in corrosive resistant container with a resistant inner liner.

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

Other hazards
None known.

Supplemental information
None.

3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Mixtures</th>
<th>Components</th>
<th>CAS #</th>
<th>Percent (wt/wt)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Sodium Hydroxide</td>
<td>1310-73-2</td>
<td>2.5 - 10</td>
</tr>
<tr>
<td></td>
<td>Sodium sulphite</td>
<td>7757-83-7</td>
<td>2.5 - 10</td>
</tr>
<tr>
<td></td>
<td>Diethylaminoethanol</td>
<td>100-37-8</td>
<td>1 - 2.5</td>
</tr>
<tr>
<td></td>
<td>Sodium Carbonate</td>
<td>497-19-8</td>
<td>1 - 2.5</td>
</tr>
</tbody>
</table>

Composition comments
Information for specific product ingredients as required by the WHMIS Regulations is listed. Refer to additional sections of this SDS for our assessment of the potential hazards of this formulation.

4. First-aid measures

Inhalation
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact
Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.

Eye contact
Rinse immediately with plenty of water for at least 20 minutes Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Ingestion
Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and delayed
Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation.

Indication of immediate medical attention and special treatment needed
Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

General information
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media
Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical
During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters
Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

Fire fighting equipment/instructions
In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Cool containers / tanks with water spray.

Specific methods
Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb spillage to prevent material damage. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Environmental precautions

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Avoid discharge into drains, water courses or onto the ground. Water contaminated with this product may be sent to a sanitary sewer treatment facility, or a permitted waste treatment facility, in accordance with any local agreements.

7. Handling and storage

Precautions for safe handling

Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Use care in handling/storage.

Conditions for safe storage, including any incompatibilities

Protect from freezing. If frozen, thaw completely and mix thoroughly prior to use. Do not store at elevated temperatures. Store in corrosive resistant container with a resistant inner liner. Store locked up. Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store away from incompatible materials (see Section 10 of the SDS). Store in accordance with local/regional/national/international regulation.

8. Exposure controls/personal protection

Occupational exposure limits

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Diethylaminoethanol (CAS 100-37-8)</td>
<td>TWA</td>
<td>2 ppm</td>
</tr>
<tr>
<td>Sodium hydroxide (CAS 1310-73-2)</td>
<td>Ceiling</td>
<td>2 mg/m3</td>
</tr>
</tbody>
</table>

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Diethylaminoethanol (CAS 100-37-8)</td>
<td>TWA</td>
<td>9.6 mg/m3</td>
</tr>
<tr>
<td>Sodium hydroxide (CAS 1310-73-2)</td>
<td>Ceiling</td>
<td>2 mg/m3</td>
</tr>
</tbody>
</table>

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Diethylaminoethanol (CAS 100-37-8)</td>
<td>TWA</td>
<td>2 ppm</td>
</tr>
<tr>
<td>Sodium hydroxide (CAS 1310-73-2)</td>
<td>Ceiling</td>
<td>2 mg/m3</td>
</tr>
</tbody>
</table>

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Diethylaminoethanol (CAS 100-37-8)</td>
<td>TWA</td>
<td>2 ppm</td>
</tr>
<tr>
<td>Sodium hydroxide (CAS 1310-73-2)</td>
<td>Ceiling</td>
<td>2 mg/m3</td>
</tr>
</tbody>
</table>

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Diethylaminoethanol (CAS 100-37-8)</td>
<td>TWA</td>
<td>2 ppm</td>
</tr>
<tr>
<td>Sodium hydroxide (CAS 1310-73-2)</td>
<td>Ceiling</td>
<td>2 mg/m3</td>
</tr>
</tbody>
</table>

Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Diethylaminoethanol (CAS 100-37-8)</td>
<td>TWA</td>
<td>48 mg/m3</td>
</tr>
<tr>
<td>Sodium hydroxide (CAS 1310-73-2)</td>
<td>Ceiling</td>
<td>10 ppm</td>
</tr>
</tbody>
</table>
Canada. Quebec OELs (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide (CAS 1310-73-2)</td>
<td>Ceiling</td>
<td>2 mg/m³</td>
</tr>
</tbody>
</table>

Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide (CAS 1310-73-2)</td>
<td>Ceiling</td>
<td>2 mg/m³</td>
</tr>
</tbody>
</table>

Biological limit values

No biological exposure limits noted for the ingredient(s). Biological limit values

Exposure guidelines

Canada - Alberta OELs: Skin designation
Diethylaminoethanol (CAS 100-37-8) Can be absorbed through the skin.

Canada - British Columbia OELs: Skin designation
Diethylaminoethanol (CAS 100-37-8) Can be absorbed through the skin.

Canada - Manitoba OELs: Skin designation
Diethylaminoethanol (CAS 100-37-8) Can be absorbed through the skin.

Canada - Ontario OELs: Skin designation
Diethylaminoethanol (CAS 100-37-8) Can be absorbed through the skin.

Canada - Quebec OELs: Skin designation
Diethylaminoethanol (CAS 100-37-8) Can be absorbed through the skin.

Canada - Saskatchewan OELs: Skin designation
Diethylaminoethanol (CAS 100-37-8) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation
Diethylaminoethanol (CAS 100-37-8) Can be absorbed through the skin.

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Appropriate engineering controls

Individual protection measures, such as personal protective equipment

Eye/face protection
Splash proof chemical goggles. Face shield.

Skin protection

Hand protection
Wear appropriate chemical resistant gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Glove selection must take into account any solvents and other hazards present.

Other
Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection
Chemical respirator with organic vapor cartridge and full facepiece. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Thermal hazards
Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations
Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless to light yellow</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available.</td>
</tr>
<tr>
<td>pH (concentrated product)</td>
<td>13.5</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>32 °F (0 °C)</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>212 °F (100 °C)</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 200 °F (&gt; 93 °C) P-M(CC)</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>&lt; 1 (Ether = 1)</td>
</tr>
</tbody>
</table>
Flammability (solid, gas) Not applicable.
Upper/lower flammability or explosive limits
   Flammability limit - lower (%) Not available.
   Flammability limit - upper (%) Not available.
   Explosive limit - lower (%) Not available.
   Explosive limit - upper (%) Not available.
Vapor pressure 18 mm Hg
Vapor pressure temp. 70 °F (21 °C)
Vapor density < 1 (Air = 1)
Relative density 1.15
Relative density temperature 70 °F (21 °C)
Solubilities
   Solubility (water) 100 %
Partition coefficient (n-octanol/water) Not available.
Auto-ignition temperature Not available.
Decomposition temperature Not available.
Viscosity 10 cps
Viscosity temperature 70 °F (21 °C)
Other information
   Explosive properties Not explosive.
   Oxidizing properties Not oxidizing.
   Percent volatile 1.4 (Calculated)
   Pour point 37 °F (3 °C)
   Specific gravity 1.151

10. Stability and reactivity
Reactivity May be corrosive to metals.
Chemical stability Material is stable under normal conditions.
Possibility of hazardous reactions Contact with strong acids may cause a violent reaction releasing heat.
Conditions to avoid Protect from freezing.
Incompatible materials May react with acids or strong oxidisers. Do not contaminate.
Hazardous decomposition products Oxides of carbon, nitrogen, and sulphur evolved in fire.

11. Toxicological information
Information on likely routes of exposure
   Inhalation Prolonged inhalation may be harmful. May cause irritation to the respiratory system.
   Skin contact Causes severe skin burns.
   Eye contact Causes serious eye damage.
   Ingestion Causes digestive tract burns.
   Symptoms related to the physical, chemical and toxicological characteristics Burning pain and severe corrosive skin damage. Causes serious eye damage. May cause respiratory irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.
Information on toxicological effects
   Acute toxicity May cause respiratory irritation.
### Test Results

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OPTIGUARD MCA4288 (CAS Mixture)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Dermal</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rabbit</td>
<td>&gt; 5000 mg/kg, (Calculated according to GHS additivity formula)</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>Rat</td>
<td>&gt; 5 mg/l, 4 Hours, (Calculated according to GHS additivity formula)</td>
</tr>
<tr>
<td><strong>Oral</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>&gt; 5000 mg/kg, (Calculated according to GHS additivity formula)</td>
</tr>
<tr>
<td><strong>Components</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diethylaminoethanol (CAS 100-37-8)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Dermal</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Guinea Pig</td>
<td>885 mg/kg</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>Rat</td>
<td>&gt; 4.5 mg/l, 4 Hour</td>
</tr>
<tr>
<td><strong>Oral</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>1300 mg/kg</td>
</tr>
<tr>
<td>Sodium Carbonate (CAS 497-19-8)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Dermal</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rabbit</td>
<td>&gt; 2000 mg/kg</td>
</tr>
<tr>
<td><strong>Oral</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>2800 mg/kg</td>
</tr>
<tr>
<td>Sodium sulphite (CAS 7757-83-7)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Dermal</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rabbit</td>
<td>&gt; 2000 mg/kg</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>Rat</td>
<td>&gt; 5.5 mg/l, 4 Hour</td>
</tr>
<tr>
<td><strong>Oral</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>2610 mg/kg</td>
</tr>
</tbody>
</table>

* Estimates for product may be based on additional component data not shown.

- **Skin corrosion/irritation**: Causes severe skin burns and eye damage.
- **Serious eye damage/eye irritation**: Causes serious eye damage.
- **Respiratory or skin sensitization**
  - **Canada - Alberta OELs: Irritant**
    - Sodium Hydroxide (CAS 1310-73-2) Irritant
  - **Respiratory sensitization**: This product is not expected to cause respiratory sensitization.
  - **Skin sensitization**: This product is not expected to cause skin sensitization.
  - **Germ cell mutagenicity**: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
  - **Carcinogenicity**: Not classified.
  - **IARC Monographs. Overall Evaluation of Carcinogenicity**: Sodium sulphite (CAS 7757-83-7) Not classifiable as to carcinogenicity to humans.
  - **Reproductive toxicity**: This product is not expected to cause reproductive or developmental effects.
  - **Specific target organ toxicity - single exposure**: May cause respiratory irritation.
Specific target organ toxicity - repeated exposure
Not classified.
Aspiration hazard
Aspiration of this product may cause the same corrosiveness/irritation impacts as if it were ingested.
Chronic effects
Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPTIGUARD MCA4288 (CAS Mixture)</td>
<td>0% Mortality Fathead Minnow</td>
<td>2000 mg/L, Static Bioassay with 48-Hour Renewal, 96 hour, (pH adjusted)</td>
</tr>
<tr>
<td></td>
<td>Aquatic Crustacea</td>
<td>0% Mortality Daphnia magna</td>
</tr>
</tbody>
</table>

* Estimates for product may be based on additional component data not shown.

Bioaccumulative potential
No data available.

Partition coefficient n-octanol / water (log Kow)
- Diethylaminoethanol 0.05
- Bioconcentration factor (BCF)
  - Diethylaminoethanol < 6.1

Mobility in soil
No data available.

Other adverse effects
Not available.

Persistence and degradability
No data is available on the degradability of this product.

13. Disposal considerations

Disposal instructions
Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations
Dispose in accordance with all applicable regulations.

Waste from residues / unused products
Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging
Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

TDG
- UN number UN3266
- UN proper shipping name CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. [SODIUM HYDROXIDE, SODIUM SULFITE]
- Transport hazard class(es)
  - Class 8
  - Subsidiary risk -
  - Packing group III

Environmental hazards
Not available.

The goods described above have been classified using a combination of testing, technical data, calculations and manufacturer knowledge in accordance with Part 2, Classification.

DOT
- UN number UN3266
- UN proper shipping name CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. [SODIUM HYDROXIDE, SODIUM SULFITE]
- Transport hazard class(es)
  - Class 8
  - Packing group III
  - Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
  - ERG number 154

Some containers may be exempt from Dangerous Goods/Hazmat Transport Regulations, please check BOL for exact container classification.
IMDG

UN number: UN3266
UN proper shipping name: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE, SODIUM SULFITE)
Transport hazard classes:
- Class: 8
- Subsidiary risk: -
- Packing group: III
Environmental hazards:
- Marine pollutant: No.
- Environmental hazards: Not available.
Special precautions for user:
Read safety instructions, SDS and emergency procedures before handling.

IATA

UN number: UN3266
UN proper shipping name: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE, SODIUM SULFITE)
Transport hazard classes:
- Class: 8
- Subsidiary risk: -
- Packing group: III
Environmental hazards:
- Environmental hazards: No.
- ERG Code: 154
Special precautions for user:
Read safety instructions, SDS and emergency procedures before handling.

15. Regulatory information

Canadian regulations
- Controlled Drugs and Substances Act
  Not regulated.
- Export Control List (CEPA 1999, Schedule 3)
  Not listed.
- Greenhouse Gases
  Not listed.
- Precursor Control Regulations
  Not regulated.

Inventory status

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
</tbody>
</table>

Material name: OPTIGUARD MCA4288
Version number: 1.0
Country(s) or region | Inventory name | On inventory (yes/no)*
--- | --- | ---
United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes

*A “Yes” indicates that all components of this product comply with the inventory requirements administered by the governing country(s).
A “No” indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information

Issue date | Sep-14-2016
Revision date | Sep-14-2016
Version # | 1.0

List of abbreviations
- CAS: Chemical Abstract Service Registration Number
- TSRN indicates a Trade Secret Registry Number is used in place of the CAS number.
- ACGIH: American Conference of Governmental Industrial Hygienists
- NOEL: No Observed Effect Level
- STEL: Short Term Exposure Limit
- LC50: Lethal Concentration, 50%
- LD50: Lethal Dose, 50%
- TWA: Time Weighted Average
- BOD: Biochemical Oxygen Demand
- COD: Chemical Oxygen Demand
- TOC: Total Organic Carbon
- IATA: International Air Transport Association
- IMDG: International Maritime Dangerous Goods Code
- TLV: Threshold Limit Value

References:
- No data available

Disclaimer
- The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Revision information
- Product and Company Identification: Physical States
- Toxicological Information: Toxicological Data
- Transport Information: Experimental Data
- GHS: Classification