NATIONAL CHEMICAL LABORATORIES, INC.

SAFETY DATA SHEET

Section 1 - Identification

Product Identifier
RSC #8 HD Detergent / Disinfectant

Other means of identification
4078

Recommended use
Disinfectant.

Recommended restrictions
EPA Registered Product. For commercial and industrial use only.

Manufacturer / Importer / Supplier / Distributor Information
Company Name
National Chemical Laboratories of PA, Inc.

Address
401 N. 10th Street - Philadelphia, PA 19123

Telephone
1 (215) 922-1200

Supplier Email
info@nclonline.com

Contact
CHEM-TEL

Emergency Phone
1 (800) 255-3924

Section 2 - Hazard(s) Identification

SDS Hazards and Warnings are based on the undiluted product. Refer to diluted SDS for Ready-To-Use Hazards and Warnings.

Physical Hazards
Not Classified

Health Hazards
Serious eye damage/eye irritation

Skin corrosion/irritation

Environmental Hazards
Hazardous to the aquatic environment, acute hazard.

Hazardous to the aquatic environment, long-term hazard.

OSHA defined hazards
Not Classified.

Section 3 - Composition/Information on ingredients

Mixture

Hazardous Components
Ingredient Name
CAS #
%

Sodium Carbonate
497-19-8
1 - 5

4-Nonylphenol, branched, ethoxylated
127087-87-0
1 - 5

_Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride (Alternate CAS 68956-79-6)
85409-23-0
1 - 3

_Alkyl Dimethyl Benzyl Ammonium Chloride (C12-C18)
68391-01-5
1 - 3

Composition Comments
Components not listed are either non-hazardous or are below reportable limits.

Section 4 - First-aid Measures

Inhalation
Move to fresh air. Call a physician if symptoms develop or persist.

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**Section 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 | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| Fire-fighting equipment/instructions | Move containers from fire area if you can do so without risk. |
| General fire hazards | Use standard firefighting procedures and consider the hazards of other involved materials. |
| Specific Methods | No unusual fire or explosion hazards noted. |

**Section 6 - Accidental release measures**

| Personal precautions, protective equipment and emergency procedures | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. 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. |
| Methods and materials for containment and cleaning up | 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 in vermiculite, dry sand or earth and place into containers. Prevent product from entering drains. 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. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA. |
| Environmental precautions | Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground. |

**Section 7 - Handling and storage**

| Precautions for safe handling | Do not get this material in contact with eyes. Avoid contact with skin. Avoid contact with clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid release to the environment. Do not empty into drains. |
| Conditions for safe storage, including any incompatibilities | DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL. PESTICIDE STORAGE: Store in a dry place no lower in temperature than 50°F or higher than 120°F. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). |

**Section 8 - Exposure control/personal protection**

| Occupational exposure limits | No exposure limits noted for ingredient(s). |
| Biological limit values | No biological exposure limits noted for the ingredient(s). |
| Appropriate engineering controls | Good general ventilation (typically 10 air changes per hour) 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. |
| Individual protection measures, such as personal protective equipment | If use of product risks exposure to contact, wear safety glasses with side shields. |
| Eye/face protection | Impervious gloves are recommended for prolonged use. |
| Skin protection | If use of product risk exposure to contact, wear suitable protective clothing. |
| Hand protection | Respiratory protection | In case of insufficient ventilation, wear suitable respiratory equipment. |

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Section 9 - Physical and chemical properties

| Appearance | Physical state                  | Liquid.            |
|           | Form                             | Thin Liquid.       |
|           | Color                            | Blue, clear.       |
| Odor       | Odor threshold                   | Not available.     |
| pH         |                                  | 11.8               |
| Melting point/freezing point | > 32 °F (> 0 °C) |
| Initial boiling point and boiling range | > 212 °F (> 100 °C) |
| Flash point | > 201 °F (> 93.9 °C) Pensky-Martens Closed Cup |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Not available. |
| Upper/lower flammability or explosive limits | Not available. |
| Flammability limit - lower (%) | Not available. |
| Flammability limit - upper (%) | Not available. |
| Explosive limit - lower (%) | Not available. |
| Explosive limit - upper (%) | Not available. |
| Vapor pressure | Not available. |
| Vapor density | Not available. |
| Relative density | 1.04 ± 0.01 g/ml |
| Relative density temperature | 75 °F (23.9 °C) |
| Solubilities (water) | Complete. |
| Partition Coefficient n-octanol/water | Not available |
| Auto-ignition temperature | Not Available |
| Decomposition temperature | Not Available |
| Viscosity | <10 cSt |
| Viscosity Temperature | 75 °F (23.9 °C) |

Section 10 - Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous reactions No dangerous reaction known under conditions of normal use.

Conditions to Avoid Avoid temperatures exceeding the flash point. Reacts violently with strong acids. This product may react with oxidizing agents. Do not mix with other chemicals. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents. Anionic surfactants

Hazardous Decomposition Products Upon decomposition, this product may yield oxides of nitrogen and ammonia, carbon dioxide, carbon monoxide and other low molecular weight hydrocarbons.

Section 11 - Toxicological information

Information on likely routes of exposure

- Ingestion May be harmful if swallowed.
- Inhalation Prolonged inhalation may be harmful.
- Skin contact Causes skin irritation.
- Eye contact Causes serious eye damage.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.

Information on toxicological effects.

Acute toxicity

<table>
<thead>
<tr>
<th>Components</th>
<th>Level</th>
<th>Type</th>
<th>Code</th>
<th>Species</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride (Alternate CAS 68956-79-6) (CAS 85409-23-0)</td>
<td>Acute</td>
<td>Dermal</td>
<td>LD50</td>
<td>Rabbit</td>
<td>&gt; 2000 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Acute</td>
<td>Inhalation</td>
<td>LC50</td>
<td></td>
<td>&gt; 20 mg/l</td>
</tr>
</tbody>
</table>
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Section 1 - Identification of substance/mixture and company/consignee information

物质/混合物 标识

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Section 2 - Hazard(s) identification

- **Skin corrosion/irritation**: Causes skin irritation.
- **Serious eye damage/ eye irritation**: Causes serious eye damage.
- **Respiratory sensitization**: Not available.
- **Germ cell mutagenicity**: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
- **Carcinogenicity**: This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
- **Skin sensitization**: This product is not expected to cause skin sensitization.
- **Respiratory sensitization**: Not available.
- **Reproductive toxicity**: This product is not expected to cause reproductive or developmental effects.
- **Specific target organ toxicity - single exposure**: Not applicable.
- **Specific target organ toxicity - repeated exposure**: Not applicable.
- **Aspiration hazard**: Not likely, due to the form of the product.

Section 3 - Hazardous properties

- **Acute Dermal LD50**:
  - Rabbit: > 2000 mg/kg
  - Rat: 1420 mg/kg

- **Acute Inhalation LC50**:
  - Rat: > 20 mg/l

- **Acute Oral LD50**:
  - Rat: 500 - 5000 mg/kg

- **Acute Ingestion LC50**:
  - Rat: 2300 mg/m³, 2 Hours

Section 4 - First aid measures

Section 5 - Fire fighting measures

Section 6 - Accidental release measures

Section 7 - Handling and storage

Section 8 - Exposure controls/ personal protective equipment

Section 9 - Physical and chemical properties

Section 10 - Stability and reactivity

Section 11 - Toxicological information

Section 12 - Ecological information

- **Ecotoxicity**: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Section 13 - Disposal considerations

Disposal instructions

PESTICIDE DISPOSAL - Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL - Nonrefillable container. Do not reuse or refill container. Clean container promptly after emptying.

For containers 5 gallons or less:

Triple rinse as follows: Fill container 1/4 full with water and recap. Agitate vigorously. Drain for 10 seconds after the flow begins to drip. Follow Pesticide Disposal instructions for rinsate disposal. Repeat procedure two more times. Then offer for recycling or reconditioning. If not available, puncture and dispose in a sanitary landfill.

For containers greater than 5 gallons:

Triple rinse as follows: Fill container 1/4 full with water. Tip container on its side and roll it back and forth, ensuring at least one complete revolution for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Follow Pesticide Disposal instructions for rinsate disposal. Repeat procedure two more times. Then offer for recycling or reconditioning. If not available, puncture and dispose in a sanitary landfill.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

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

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

Section 14 - Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.
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IATA
IMDG
Transportation in bulk according to Annex II of MARPOL 73/78 and IBC Code

This substance/mixture is not intended to be transported in bulk.

Section 15 - Regulatory Information

US federal regulations
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
This product is a U.S. EPA registered pesticide.

TSCA Section 12(b) Export Notification (40 CFR707, Subpt. D) Not regulated.
CERCLA Hazardous Substance List (40 CFR 302.4) Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard Categories
Immediate Hazard Yes
Delayed Hazard No
Fire Hazard No
Pressure Hazard No
Reactivity Hazard No

SARA 302 Extremely hazardous substance No
SARA 311/312 Hazardous chemical No
SARA 313 (TRI reporting) No

Other federal regulations
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HSPs) List Not regulated.
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated.
Safe Drinking Water Act (SDWA) Not regulated.
Food and Drug Administration (FDA) Not regulated.

US state regulations
US. Massachusetts RTK - Substance List Not regulated.
US. New Jersey Worker and Community Right-to-Know Act Not listed.
US. Pennsylvania RTK - Hazardous Substances Not listed.
US. Rhode Island RTK Not regulated.
US - California Proposition 65 California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins

International Inventories

Country(s) or region Inventory Name On Inventory (yes/no)*
Australia Australian Inventory of Chemical Substances (AICS) No
Canada Domestic Substances List (DSL) No
Canada Non-Domestic Substances List (NDSSL) No
China Inventory of Existing Chemical Substances in China (IECSC) No
Europe European Inventory of Existing Commercial Chemical Substances (EINECS) No
Europe European Inventory of Notified Chemical Substances (ELINCS) No
Japan Inventory of Existing and New Chemical Substances (ENCS) No
Korea Existing Chemicals List (ECL) No
New Zealand New Zealand Inventory No
Philippines Philippine Inventory of Chemicals and Chemical Substances No
United States Puerto Rico Toxic Substances Control Act (TSCA) Inventory No

*A "Yes" indicates this product complies 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).

Section 16 - Other information, including date of preparation or last version

Revision date 1/17/2018
Version # 02
Further information Some information may conflict with EPA mandated label information.
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