1. Product and Company Identification

Product Name: NOXON

CAS #

Product use: Metal Polish

Manufacturer: Reckitt Benckiser
Morris Corporate Center IV
399 Interpace Parkway
P.O. Box 225
Parsippany, NJ 07054-0225

In Case of Emergency: 1-800-228-4722
Transportation Emergencies: 24 Hour Number:

North America: CHEMTREC: 1-800-424-9300
Outside North America: 1-703-527-3887

2. Hazards Identification

Emergency overview

CAUTION
EYE IRRITANT. Skin irritation possible with prolonged exposure. Do not get in eyes, on skin or on clothing. Combustible liquid. Keep away from heat and flame. Use only in well-ventilated areas.

Potential short term health effects

Routes of exposure
Eye, Skin contact, Inhalation, Ingestion.

Eyes
Causes irritation.

Skin
May cause irritation.

Inhalation
Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness).

Ingestion
May cause stomach distress, nausea or vomiting.

Target organs

Chronic effects
Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Signs and symptoms
Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropanol</td>
<td>67-63-0</td>
<td>2.5 - 10</td>
</tr>
<tr>
<td>Limestone</td>
<td>1317-65-3</td>
<td>10 - 20</td>
</tr>
<tr>
<td>Ammonium hydroxide</td>
<td>1336-21-6</td>
<td>1 - 2.5</td>
</tr>
<tr>
<td>Ethanedioic acid, dihydrate</td>
<td>6153-56-6</td>
<td>1 - 2.5</td>
</tr>
<tr>
<td>Ethanol</td>
<td>64-17-5</td>
<td>1 - 2.5</td>
</tr>
</tbody>
</table>
4. First Aid Measures

First aid procedures
Eye contact
Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention immediately.

Skin contact
Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.

Inhalation
If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.

Ingestion
Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.

Notes to physician
Symptoms may be delayed.

General advice
Keep away from sources of ignition. No smoking. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures

Flammable properties
Combustible by OSHA criteria.

Extinguishing media
Suitable extinguishing media
Dry chemical. Carbon dioxide. Alcohol foam.

Unsuitable extinguishing media
Not available

Protection of firefighters
Specific hazards arising from the chemical
Not available

Protective equipment for firefighters
Firefighters should wear full protective clothing including self contained breathing apparatus.

Hazardous combustion products
May include and are not limited to: Oxides of carbon. Oxides of nitrogen.

Explosion data
Sensitivity to mechanical impact
Not available

Sensitivity to static discharge
Not available

6. Accidental Release Measures

Personal precautions
Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.

Methods for containment
Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up
Remove sources of ignition. Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills in original containers for re-use.

7. Handling and Storage

Handling
Use good industrial hygiene practices in handling this material.

Storage
Keep out of reach of children. Keep from freezing. Do not store at temperatures above 120°F (49°C). Store in a closed container away from incompatible materials.
## 8. Exposure Controls / Personal Protection

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium hydroxide</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td>Ethanedioic acid, dihydrate</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>TWA: 1 mg/m3</td>
</tr>
<tr>
<td></td>
<td>STEL: 2 mg/m3</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>TWA: 1 mg/m3</td>
</tr>
<tr>
<td>Ethanol</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>TWA: 1000 ppm</td>
</tr>
<tr>
<td></td>
<td>STEL: 1000 ppm</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>TWA: 1000 ppm</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>TWA: 200 ppm</td>
</tr>
<tr>
<td></td>
<td>STEL: 400 ppm</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>TWA: 400 ppm</td>
</tr>
<tr>
<td>Limestone</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>TWA: 5 mg/m3</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>TWA: 15 mg/m3</td>
</tr>
</tbody>
</table>

### Engineering controls
General ventilation normally adequate.

### Personal protective equipment
- **Eye / face protection**: Safety glasses if eye contact is possible. Emergency responders should wear full eye and face protection.
- **Hand protection**: Protective gloves are recommended for prolonged or repeated exposure. Emergency responders should wear impermeable gloves.
- **Skin and body protection**: As required by employer code.
- **Respiratory protection**: Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Emergency responders should wear self-contained breathing apparatus (SCBA) to avoid inhalation of vapours generated by this product during a spill or other clean-up operations.

### General hygiene considerations
Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

## 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>off-white, tan.</td>
</tr>
<tr>
<td>Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>ammoniacal</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>pH</td>
<td>9.6 - 10.2</td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not available</td>
</tr>
<tr>
<td>Pour point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Not available</td>
</tr>
</tbody>
</table>
10. Stability and Reactivity

Chemical stability
Stable under recommended storage conditions.

Conditions to avoid
Avoid high temperatures. Do not mix with other chemicals.

Incompatible materials
Not for use on silver, lacquered, painted or antiqued finished surfaces.

Hazardous decomposition products
May include and are not limited to: Oxides of carbon. Oxides of nitrogen.

Possibility of hazardous reactions
Hazardous polymerization does not occur.

11. Toxicological Information

Component analysis - LC50

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium hydroxide</td>
<td>Not available</td>
</tr>
<tr>
<td>Ethanedioic acid, dihydrate</td>
<td>Not available</td>
</tr>
<tr>
<td>Ethanol</td>
<td>31623 ppm rat</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>16970 mg/l/4h rat</td>
</tr>
<tr>
<td>Limestone</td>
<td>Not available</td>
</tr>
</tbody>
</table>

Component analysis - Oral LD50

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium hydroxide</td>
<td>350 mg/kg rat</td>
</tr>
<tr>
<td>Ethanedioic acid, dihydrate</td>
<td>375 mg/kg rat</td>
</tr>
<tr>
<td>Ethanol</td>
<td>3450 mg/kg mouse; 7060 mg/kg rat</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>4396 mg/kg rat</td>
</tr>
<tr>
<td>Limestone</td>
<td>6450 mg/kg rat</td>
</tr>
</tbody>
</table>

Effects of acute exposure

- **Eye**: Causes irritation.
- **Skin**: May cause irritation.
- **Inhalation**: Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness).
- **Ingestion**: May cause stomach distress, nausea or vomiting.
- **Sensitization**: The finished product is not expected to have chronic health effects.
- **Chronic effects**: The finished product is not expected to have chronic health effects.
Carcinogenicity

ACGIH - Threshold Limit Values - Carcinogens
Ethanol 64-17-5 A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
Isopropanol 67-63-0 A4 - Not Classifiable as a Human Carcinogen
IARC - Group 1 (Carcinogenic to Humans)
Ethanol 64-17-5 Monograph 96 [in preparation] (in alcoholic beverages)
IARC - Group 3 (Not Classifiable)
Isopropanol 67-63-0 Monograph 71 [1999]; Supplement 7 [1987]; Monograph 15 [1977]

Mutagenicity
The finished product is not expected to have chronic health effects. Mutagenic effects were observed in somatic and reproductive cells of live animals (rats and mice) exposed to high oral doses of ethanol.

Reproductive effects
The finished product is not expected to have chronic health effects.

Teratogenicity
The finished product is not expected to have chronic health effects. Animal studies demonstrate that ingestion of ethanol can cause embryotoxicity, teratogenicity and fetotoxicity in the presence of maternal toxicity.

Synergistic Materials
Not available

12. Ecological Information

Ecotoxicity
Components of this product have been identified as having potential environmental concerns.

Ecotoxicity - Freshwater Algae Data
Isopropanol 67-63-0 96 Hr EC50 Scenedesmus subspicatus: >1000 mg/L; 72 Hr EC50 Scenedesmus subspicatus: >1000 mg/L

Ecotoxicity - Freshwater Fish Species Data
Ammonium hydroxide 1336-21-6 96 Hr LC50 Pimephales promelas: 8.2 mg/L
Ethanol 64-17-5 96 Hr LC50 Onchorhynchus mykiss: 12.0-16.0 ml/L [static]; 96 Hr LC50 Pimephales promelas: >100 mg/L [static]; 96 Hr LC50 Pimephales promelas: 13400-15100 mg/L [flow-through]
Isopropanol 67-63-0 96 Hr LC50 Pimephales promelas: 9640 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 11130 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: >1400000 μg/L

Ecotoxicity - Microtox Data
Ethanol 64-17-5 5 Min EC50 Photobacterium phosphoreum: 35470 mg/L; 30 min EC50 Photobacterium phosphoreum: 34634 mg/L
Isopropanol 67-63-0 5 Min EC50 Photobacterium phosphoreum: 35390 mg/L

Ecotoxicity - Water Flea Data
Ammonium hydroxide 1336-21-6 48 Hr EC50 Daphnia pulex: 0.66 mg/L; 48 Hr LC50 Daphnia magna: 9268 mg/L; 24 Hr EC50 Daphnia magna: 10800 mg/L
Ethanol 64-17-5 48 Hr LC50 Daphnia magna: 9268 mg/L; 48 Hr LC50 Daphnia magna: 10800 mg/L
Isopropanol 67-63-0 48 Hr EC50 Daphnia magna: 13299 mg/L

Environmental effects
Not available
Aquatic toxicity
Not available
Persistence / degradability
Not available
Bioaccumulation / accumulation
Not available
Partition coefficient
Not available
Mobility in environmental media
Not available
Chemical fate information
Not available

13. Disposal Considerations

Waste codes
Not available
Disposal instructions
Dispose in accordance with all applicable regulations.
Waste from residues / unused products
Not available
Contaminated packaging
Not available
14. Transport Information

U.S. Department of Transportation (DOT)

Not Regulated by DOT (Road / Rail Only) 173.150 (f), (2), (3)

Transportation of Dangerous Goods (TDG - Canada)

Not Regulated by TDG (Road / Rail Only) (TDG Part 1.37)

IMDG (Marine Transport)

UN 1993 - Flammable Liquid, N.O.S. (Isopropanol, ethanol) Class 3, PG III - Limited Quantity, FP 40.556°C (105°F) Closed Cup

IATA/ICAO (Air)

UN 1993 - Flammable Liquid, N.O.S. (Isopropanol, ethanol) Class 3, PG III
### 15. Regulatory Information

**US Federal regulations**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

<table>
<thead>
<tr>
<th><strong>U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium hydroxide</td>
<td>1336-21-6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>U.S. - CERCLA/SARA - Section 313 - Emission Reporting</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropanol</td>
<td>67-63-0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>U.S. - CWA (Clean Water Act) - Hazardous Substances</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium hydroxide</td>
<td>1336-21-6</td>
</tr>
</tbody>
</table>

**Occupational Safety and Health Administration (OSHA)**

| 29 CFR 1910.1200 hazardous chemical | Yes |

**CERCLA (Superfund) reportable quantity**

- Ammonium hydroxide: 1000.0000
- Benzene, ethyl-: 1000.0000
- Naphthalene: 100.0000

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

<table>
<thead>
<tr>
<th>Hazard categories</th>
<th>Immediate Hazard - Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delayed Hazard - Yes</td>
<td></td>
</tr>
<tr>
<td>Fire Hazard - Yes</td>
<td></td>
</tr>
<tr>
<td>Pressure Hazard - No</td>
<td></td>
</tr>
<tr>
<td>Reactivity Hazard - No</td>
<td></td>
</tr>
</tbody>
</table>

| Section 302 extremely hazardous substance | No |

| Section 311 hazardous chemical | Yes |

**Clean Air Act (CAA)**

Not available

**Clean Water Act (CWA)**

Not available
State regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

U.S. - California - 8 CCR Section 339 - Director’s List of Hazardous Substances
Isopropanol 67-63-0 Present

U.S. - Louisiana - Reportable Quantity List for Pollutants
Ammonium hydroxide 1336-21-6 1000 Lb final RQ; 454 kg final RQ

U.S. - Massachusetts - Right To Know List
Ammonium hydroxide 1336-21-6 Present
Ethanol 64-17-5 Teratogen
Isopropanol 67-63-0 Present
Limestone 1317-65-3 Present

U.S. - Minnesota - Hazardous Substance List
Ethanol 64-17-5 Present
Isopropanol 67-63-0 Present
Limestone 1317-65-3 Present (dust)

U.S. - New Jersey - Right to Know Hazardous Substance List
Ammonium hydroxide 1336-21-6 sn 0103
Ethanol 64-17-5 sn 0844
Isopropanol 67-63-0 sn 1076
Limestone 1317-65-3 sn 4001

U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances
Ammonium hydroxide 1336-21-6 1000 Lb RQ (air); 100 lb RQ (land/water)

U.S. - Pennsylvania - RTK (Right to Know) List
Ammonium hydroxide 1336-21-6 Environmental hazard
Ethanedioic acid, dihydrate 6153-56-6 Present
Ethanol 64-17-5 Present
Isopropanol 67-63-0 Environmental hazard
Limestone 1317-65-3 Present

U.S. - Rhode Island - Hazardous Substance List
Ethanedioic acid, dihydrate 6153-56-6 Flammable
Ethanol 64-17-5 Toxic; Flammable
Isopropanol 67-63-0 Toxic; Flammable
Limestone 1317-65-3 Toxic

Inventory status
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)

16. Other Information

Disclaimer
This product should only be used as directed on the label and for the purpose intended. To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Further information
UPC CODES:  62338-00117 (12 oz.)
FORMULA NUMBER:  0175699

Issue date 23-Oct-2009
Effective date 15-Oct-2009
Prepared by Reckitt Benckiser Regulatory Department  800-333-3899
Other information For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.