1. MATERIAL AND COMPANY IDENTIFICATION

Material Name: Rain-X Original Glass Treatment
Uses: Glass cleaner

Manufacturer/Supplier: ITW Global Brands
6925 Portwest Dr., Suite 100
Houston, TX. 77024-8042
USA

MSDS Request: 1-855-888-1988

Emergency Telephone Number
Spill Information: CHEMTREC 1-800-424-9300, Local: 1-703-527-3887
Health Information: RMPDC 1-877-504-9352

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>CAS No.</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>64-17-5</td>
<td>30.00 - 60.00 %</td>
</tr>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>10.00 - 30.00 %</td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>67-63-0</td>
<td>10.00 - 30.00 %</td>
</tr>
</tbody>
</table>

A mixture of water, alcohols and additives.

3. HAZARDS IDENTIFICATION

**Emergency Overview**
Health Hazards: Irritating to eyes.
Safety Hazards: Flammable.
Environmental Hazards: Not classified as dangerous for the environment.

Health Hazards
- Inhalation: Vapours expected to be slightly irritating.
- Skin Contact: Repeated exposure may cause skin dryness or cracking. No specific hazards under normal use conditions.
- Eye Contact: Irritating to eyes.
- Ingestion: Harmful: may cause lung damage if swallowed. Ingestion may cause drowsiness and dizziness.

Other Information: Possibility of organ or organ system damage from prolonged exposure; see Chapter 11 for details. Target organ(s): Liver.

Signs and Symptoms
Defatting dermatitis signs and symptoms may include a burning sensation and/or a dried/cracked appearance. Eye irritation and symptoms may include a burning sensation, redness, swelling, and/or blurred vision. Ingestion may cause inebriation.
Material Safety Data Sheet

If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath, and/or fever. The onset of respiratory symptoms may be delayed for several hours after exposure. High concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea; continued exposure may result in unconsciousness and/or death. Liver damage may be indicated by loss of appetite, jaundice (yellowish skin and eye colour), fatigue, bleeding or easy bruising and sometimes pain and swelling in the upper right abdomen.

Aggravated Medical Condition: Pre-existing medical conditions of the following organ(s) or organ system(s) may be aggravated by exposure to this material: Eyes. Skin.

Environmental Hazards: No specific hazards under normal use conditions.

Additional Information: Under normal conditions of use or in a foreseeable emergency, this product meets the definition of a hazardous chemical when evaluated according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

4. FIRST AID MEASURES

General Information: Keep victim calm. Obtain medical treatment immediately.
Inhalation: No treatment necessary under normal conditions of use.
Skin Contact: No treatment necessary under normal conditions of use.
Eye Contact: Immediately flush eyes with large amounts of water for at least 30 minutes while holding eyelids open. Transport to the nearest medical facility for additional treatment.
Ingestion: In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.
Advice to Physician: Treat symptomatically. Persons on disulfiram (Antabuse®) therapy should be aware that the ethyl alcohol in this product is hazardous to them just as is alcohol from any source. Disulfiram reactions (vomiting, headache and even collapse) may follow ingestion of small amounts of alcohol and have also been described from skin contact.

5. FIRE FIGHTING MEASURES

Clear fire area of all non-emergency personnel.

Flash point: -2.78 °C / 27.00 °F (Setaflash Closed Cup)
Upper / lower Flammability or Explosion limits: Data not available
Specific Hazards: Flammable vapours may be present even at temperatures below the flash point.
Suitable Extinguishing Media: Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
Unsuitable Extinguishing Media: Do not use water in a jet.
6. ACCIDENTAL RELEASE MEASURES

Protective measures: Remove all possible sources of ignition in the surrounding area. No specific measures.
Clean Up Methods: Not applicable.
Additional Advice: Observe the relevant local and international regulations.

7. HANDLING AND STORAGE

Handling: Use only in well-ventilated areas.
Storage: No special storage requirements.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Material</th>
<th>Source</th>
<th>Type</th>
<th>ppm</th>
<th>mg/m3</th>
<th>Notation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>ACGIH</td>
<td>STEL</td>
<td>1,000 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethanol</td>
<td>OSHA Z1</td>
<td>PEL</td>
<td>1,000 ppm</td>
<td>1,900 mg/m3</td>
<td></td>
</tr>
<tr>
<td>Ethanol</td>
<td>OSHA Z1A</td>
<td>TWA</td>
<td>1,000 ppm</td>
<td>1,900 mg/m3</td>
<td></td>
</tr>
<tr>
<td>Acetone</td>
<td>ACGIH</td>
<td>TWA</td>
<td>500 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acetone</td>
<td>ACGIH</td>
<td>STEL</td>
<td>750 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acetone</td>
<td>OSHA Z1</td>
<td>PEL</td>
<td>1,000 ppm</td>
<td>2,400 mg/m3</td>
<td></td>
</tr>
<tr>
<td>Acetone</td>
<td>OSHA Z1A</td>
<td>TWA</td>
<td>750 ppm</td>
<td>1,800 mg/m3</td>
<td></td>
</tr>
<tr>
<td>Acetone</td>
<td>OSHA Z1A</td>
<td>STEL</td>
<td>1,000 ppm</td>
<td>2,400 mg/m3</td>
<td></td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>OSHA Z1</td>
<td>PEL</td>
<td>400 ppm</td>
<td>980 mg/m3</td>
<td></td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>OSHA Z1A</td>
<td>TWA</td>
<td>400 ppm</td>
<td>980 mg/m3</td>
<td></td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>OSHA Z1A</td>
<td>STEL</td>
<td>500 ppm</td>
<td>1,225 mg/m3</td>
<td></td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>ACGIH</td>
<td>TWA</td>
<td>200 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>ACGIH</td>
<td>STEL</td>
<td>400 ppm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Additional Information: Adequate ventilation to control airborne concentrations below the exposure guidelines/limits. Shell has adopted as Interim Standards the OSHA Z1A values that were established in 1989 and later rescinded.

Exposure Controls: Adequate ventilation to control airborne concentrations below the exposure guidelines/limits.

Personal Protective Equipment: Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

Respiratory Protection: Check with respiratory protective equipment suppliers.

Hand Protection: Not normally required.

Eye Protection: Chemical splash goggles (chemical monogoggles).
Rain-X Original Glass Treatment
MSDS# 11890
Version 1.0
Effective Date 10/08/2010

Material Safety Data Sheet

Protective Clothing : Skin protection not ordinarily required beyond standard issue
work clothes.
Environmental Exposure Controls : Use only in well-ventilated areas.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear colourless. Liquid.</td>
</tr>
<tr>
<td>Odour</td>
<td>Alcohol-like.</td>
</tr>
<tr>
<td>pH</td>
<td>1.0 - 2.5</td>
</tr>
<tr>
<td>Initial Boiling Point and Boiling Range</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Melting / freezing point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Pour point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash point</td>
<td>-2.78 °C / 27.00 °F (Setaflash Closed Cup)</td>
</tr>
<tr>
<td>Upper / lower Flammability or Explosion limits</td>
<td>Data not available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>0.810 - 0.812</td>
</tr>
<tr>
<td>Density</td>
<td>0.806 - 0.808 g/cm3 (ASTM D-4052)</td>
</tr>
<tr>
<td>Water solubility</td>
<td>Not applicable</td>
</tr>
<tr>
<td>n-octanol/water partition coefficient (log Pow)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Kinematic viscosity</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapour density (air=1)</td>
<td>Data not available</td>
</tr>
<tr>
<td>Volatile organic carbon content</td>
<td>72.5 % vol</td>
</tr>
<tr>
<td>Evaporation rate (nBuAc=1)</td>
<td>Data not available</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stability</td>
<td>Stable under normal conditions of use.</td>
</tr>
<tr>
<td>Conditions to Avoid</td>
<td>Open flame.</td>
</tr>
<tr>
<td>Materials to Avoid</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Hazardous Decomposition Products</td>
<td>None expected under normal use conditions.</td>
</tr>
<tr>
<td>Hazardous Polymerisation</td>
<td>No</td>
</tr>
<tr>
<td>Sensitivity to Mechanical Impact</td>
<td>No</td>
</tr>
<tr>
<td>Sensitivity to Static Discharge</td>
<td>Data not available</td>
</tr>
</tbody>
</table>

11. TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basis for Assessment</td>
<td>Information given is based on data from components.</td>
</tr>
<tr>
<td>Acute Oral Toxicity</td>
<td>May be harmful if swallowed. LD50 &gt; 2000 - &lt;= 5000 mg/kg , Rat Ingestion may cause drowsiness and dizziness.</td>
</tr>
<tr>
<td>Acute Dermal Toxicity</td>
<td>May be harmful in contact with skin. LD50 &gt; 2000 - &lt;= 5000 mg/kg , Rabbit</td>
</tr>
<tr>
<td>Acute Inhalation Toxicity</td>
<td>May be harmful if inhaled.</td>
</tr>
<tr>
<td>Skin Irritation</td>
<td>May cause moderate skin irritation (but insufficient to classify).</td>
</tr>
</tbody>
</table>
Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis.

**Eye Irritation**
- Irritating to eyes.

**Respiratory Irritation**
- Inhalation of vapours or mists may cause irritation to the respiratory system.

**Sensitisation**
- Not a skin sensitiser.

**Repeated Dose Toxicity**
- Liver: can cause liver damage.

**Mutagenicity**
- Not expected to be mutagenic.

**Carcinogenicity**
- Not carcinogenic in animal studies.

### Material Safety Data Sheet

#### Material

<table>
<thead>
<tr>
<th>Material</th>
<th>Carcinogenicity Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>ACGIH Group A4: Not classifiable as a human carcinogen.</td>
</tr>
<tr>
<td>Acetone</td>
<td>ACGIH Group A4: Not classifiable as a human carcinogen.</td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>IARC 3: Classification not possible from current data.</td>
</tr>
</tbody>
</table>

**Reproductive and Developmental Toxicity**
- Causes foetotoxicity in animals at doses which are maternally toxic. Ethanol, a component of this material, may cause birth defects and/or miscarriages.

### 12. ECOLOGICAL INFORMATION

Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products.

**Acute Toxicity**
- Expected to be practically non toxic:

**Mobility**
- Disperses in water.

**Persistence/degradability**
- Data not available

**Bioaccumulation**
- Data not available

**Other Adverse Effects**
- Not expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential.

### 13. DISPOSAL CONSIDERATIONS

**Material Disposal**
- Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations.

**Container Disposal**
- Dispose in accordance with prevailing regulations, preferably to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand.

**Local Legislation**
- Disposal should be in accordance with applicable regional, national, and local laws and regulations.

### 14. TRANSPORT INFORMATION

**US Department of Transportation Classification (49CFR)**
- **Class / Division**: Consumer Commodity, ORM-D
Material Safety Data Sheet

IMDG
Identification number UN 1987
Proper shipping name ALCOHOLS, N.O.S.
Technical name (Ethyl alcohol, Isopropyl alcohol)
Class / Division 3
Packing group II
Marine pollutant: No

IATA (Country variations may apply)
Identification number ID 8000
Proper shipping name Consumer Commodity
Class / Division 9

15. REGULATORY INFORMATION
The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

Federal Regulatory Status

Notification Status
EINECS All components listed or polymer exempt.
TSCA Not all components listed.
DSL Not all components listed.

Comprehensive Environmental Release, Compensation & Liability Act (CERCLA)
Rain-X Original Glass Treatment ( ) Reportable quantity: 174 lbs
Ethanol (64-17-5) Reportable quantity: 100 lbs
Acetone (67-64-1) Reportable quantity: 5000 lbs
Isopropyl alcohol (67-63-0) Reportable quantity: 100 lbs

SARA Hazard Categories (311/312)
Delayed (Chronic) Health Hazard. Fire Hazard.

SARA Toxic Release Inventory (TRI) (313)
Isopropyl alcohol (67-63-0) 15.00%
State Regulatory Status

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)

This product contains a chemical known to the State of California to cause cancer. Known to the State of California to cause birth defects or other reproductive harm.

New Jersey Right-To-Know Chemical List

- Ethanol (64-17-5) Listed.
- Acetone (67-64-1) Listed.
- Isopropyl alcohol (67-63-0) Listed.

Pennsylvania Right-To-Know Chemical List

- Ethanol (64-17-5) Listed.
- Acetone (67-64-1) Environmental hazard. Listed.
- Isopropyl alcohol (67-63-0) Environmental hazard. Listed.

16. OTHER INFORMATION

- MSDS Version Number : 1.0
- MSDS Effective Date : 10/08/2010
- MSDS Revisions : A vertical bar (|) in the left margin indicates an amendment from the previous version.
- MSDS Regulation : The content and format of this MSDS is in accordance with the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
- MSDS Distribution : The information in this document should be made available to all who may handle the product.
- Disclaimer : The information contained herein is based on our current knowledge of the underlying data and is intended to describe the product for the purpose of health, safety and environmental requirements only. No warranty or guarantee is expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product.
Material Safety Data Sheet