

Material Safety Data Sheet**1. MATERIAL AND COMPANY IDENTIFICATION**

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

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

Chemical Identity	CAS No.	Concentration
Ethanol	64-17-5	30.00 - 60.00 %
Acetone	67-64-1	10.00 - 30.00 %
Isopropyl alcohol	67-63-0	10.00 - 30.00 %

A mixture of water, alcohols and additives.

3. HAZARDS IDENTIFICATION

Emergency Overview	
Appearance and Odor	: Clear colorless. Liquid. Alcohol-like.
Health Hazards	: Irritating to eyes.
Safety Hazards	: Flammable.
Environmental Hazards	: Not classified as dangerous for the environment.

Health Hazards

Inhalation : Vapors 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 signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision. Ingestion may cause inebriation.

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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 color), 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 vapors 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.

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- 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**Occupational Exposure Limits**

Material	Source	Type	ppm	mg/m3	Notation
Ethanol	ACGIH	STEL	1,000 ppm		
Ethanol	OSHA Z1	PEL	1,000 ppm	1,900 mg/m3	
Ethanol	OSHA Z1A	TWA	1,000 ppm	1,900 mg/m3	
Acetone	ACGIH	TWA	500 ppm		
Acetone	ACGIH	STEL	750 ppm		
Acetone	OSHA Z1	PEL	1,000 ppm	2,400 mg/m3	
Acetone	OSHA Z1A	TWA	750 ppm	1,800 mg/m3	
Acetone	OSHA Z1A	STEL	1,000 ppm	2,400 mg/m3	
Isopropyl alcohol	OSHA Z1	PEL	400 ppm	980 mg/m3	
Isopropyl alcohol	OSHA Z1A	TWA	400 ppm	980 mg/m3	
Isopropyl alcohol	OSHA Z1A	STEL	500 ppm	1,225 mg/m3	
Isopropyl alcohol	ACGIH	TWA	200 ppm		
Isopropyl alcohol	ACGIH	STEL	400 ppm		

- 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).

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- 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

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

10. STABILITY AND REACTIVITY

- Stability** : Stable under normal conditions of use.
- Conditions to Avoid** : Open flame.
- Materials to Avoid** : Not applicable.
- Hazardous Decomposition Products** : None expected under normal use conditions.
- Hazardous Polymerization** : No
- Sensitivity to Mechanical Impact** : No
- Sensitivity to Static Discharge** : Data not available

11. TOXICOLOGICAL INFORMATION

- Basis for Assessment** : Information given is based on data from components.
- Acute Oral Toxicity** : May be harmful if swallowed. LD50 > 2000 - <= 5000 mg/kg , Rat
Ingestion may cause drowsiness and dizziness.
- Acute Dermal Toxicity** : May be harmful in contact with skin. LD50 > 2000 - <= 5000 mg/kg , Rabbit
- Acute Inhalation Toxicity** : May be harmful if inhaled.
- Skin Irritation** : May cause moderate skin irritation (but insufficient to classify).

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- Eye Irritation** : Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis.
- Respiratory Irritation** : Irritating to eyes.
- Sensitization** : Inhalation of vapors or mists may cause irritation to the respiratory system.
- Repeated Dose Toxicity** : Not a skin sensitizer.
- Mutagenicity** : Liver: can cause liver damage.
- Carcinogenicity** : Not expected to be mutagenic.
- : Not carcinogenic in animal studies.

Material	Carcinogenicity Classification
Ethanol	ACGIH Group A4: Not classifiable as a human carcinogen.
Acetone	ACGIH Group A4: Not classifiable as a human carcinogen.
Isopropyl alcohol	IARC 3: Classification not possible from current data.

- 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 recognized 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, Limited Quantity

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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%
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State Regulatory Status

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

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

New Jersey Right-To-Know Chemical List

Ethanol (64-17-5)	Listed.
Acetone (67-64-1)	Listed.
	Listed.
Isopropyl alcohol (67-63-0)	Listed.
	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	: 3.0
MSDS Effective Date	: 07/01/2012
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.