

# MATERIAL SAFETY DATA SHEET

## ROAD TECH GLASS CLEANING WIPES

Product ID: MC010906

Revised: 03-18-2010

Replaces: 03-17-2010

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** ROAD TECH GLASS CLEANING WIPES  
**Synonyms:** R06354  
**CAS Number:** MIXTURE  
**Chemical Family:** N.A.  
**Formula:** Proprietary Information

**Hydrite Chemical Co.**  
300 N. Patrick Blvd.  
Brookfield, WI 53008-0948  
(262) 792-1450

**EMERGENCY RESPONSE NUMBERS:**  
**24 Hour Emergency #: (414) 277-1311**  
**CHEMTREC Emergency #: (800) 424-9300**

### 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** CAUTION! Combustible liquid and vapor. Keep away from heat, sparks, and open flame. May cause eye, skin and respiratory irritation. May be harmful if swallowed.

**Physical State:** Liquid.  
**Color:** Clear. Colorless.  
**Odor:** Orange citrus odor.

#### POTENTIAL HEALTH EFFECTS

**Routes of Exposure:** Eyes. Skin. Inhalation. Ingestion. Absorption.

**Target Organs:** Central Nervous System. Eyes. Respiratory System. Skin.

**Eye Contact:** May cause mild to moderate irritation. Liquid contact may cause: burning sensation. blurred vision. inflammation. swelling. redness. tearing. Corneal injury may occur. Vapors are also irritating.

**Skin Contact:** May cause mild irritation. Contact may cause: stinging. pain. sensitization. Prolonged and repeated contact with skin can cause defatting and drying of the skin which may result in skin irritation and dermatitis. Prolonged and repeated exposure may cause: redness. cracking. scaling.

**Skin Absorption:** May be harmful if absorbed through skin.

**Inhalation:** May cause moderate irritation. Vapors may irritate: nose. throat. respiratory tract. Inhalation overexposure may lead to central nervous system depression producing effects such as: headache. dizziness. incoordination. lightheadedness. nausea. drowsiness. staggering gait. narcotic effects. unconsciousness. coma. death.

**Ingestion:** May cause moderate irritation. May cause: gastrointestinal irritation. nausea. vomiting. diarrhea. cramps. abdominal pain. central nervous system depression. excitement. headache. dizziness. drowsiness. kidney damage. Advanced stages may cause: collapse. unconsciousness. coma. possible death due to respiratory failure. Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema. (Isopropyl alcohol's) lethal dose for humans is estimated at 250 ml.

**Medical Conditions Aggravated by Exposure to Product:** Eye disorders. Skin disorders. Liver disorders. Kidney disorders. Impaired pulmonary function.

**Other:** Avoid simultaneous exposure to Isopropyl Alcohol and haloalkanes, such as Chloroform, Trichloroethane and Carbon Tetrachloride. Coexposure greatly increases the liver and kidney toxic effects of these haloalkanes, leading to hepatitis and kidney failure. Liver damage may be evidenced by loss of appetite, jaundice and pain in the upper abdomen on the right side.

#### Cancer Information:

This product does not contain 0.1% or more of the known or potential carcinogens listed in NTP, IARC, or OSHA.

**Potential Environmental Effects:** See Section 12.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS Number</u>	<u>% by Wt.</u>
Isopropyl Alcohol	67-63-0	< 5 %

### 4. FIRST-AID MEASURES

**Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Tilt head to avoid contaminating unaffected eye. Get immediate medical attention.

**Skin Contact:** Flush skin with plenty of water while removing contaminated clothing and shoes. Do not reuse clothing or shoes until cleaned. If irritation develops or persists, get medical attention. Wash with soap and water. Do not apply oils or ointments unless ordered by the physician.

**Inhalation:** Remove to fresh air. Get medical attention if breathing becomes difficult or respiratory irritation occurs.

**Ingestion:** If swallowed, call a physician immediately. DO NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

**Note to Physicians:**

If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately. Urine acetone test may be helpful in diagnosis. Hemodialysis should be considered in severe intoxication. Treatment is symptomatic and supportive.

### 5. FIRE FIGHTING MEASURES

**Extinguishing Media:** Water spray. Water fog. Carbon dioxide. Dry chemical. Alcohol foam. Water may be ineffective but should be used to cool fire-exposed structures and vessels.

**Fire Fighting Methods:** Evacuate area of unprotected personnel. Wear protective clothing including NIOSH-approved self-contained breathing apparatus. Remain upwind of fire to avoid hazardous vapors and decomposition products. Use water spray to cool fire-exposed containers and disperse vapors. If container is not properly cooled, it can rupture in the heat of a fire. Run-off from fire control may cause pollution.

**Fire and Explosion Hazards:** COMBUSTIBLE LIQUID. Vapors are heavier than air. Vapors may settle in low or confined areas, or travel long distances along the ground or surface to an ignition source where they may ignite, flashback, or explode. Keep away from heat, sparks, flames or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment). **PROCESS HAZARD:** Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into hot equipment under a vacuum, may result in ignitions without the presence of obvious ignition sources. Published "autoignition" or "ignition" temperature values cannot be treated as safe operating temperatures in chemical processes without analysis of the actual process conditions. Any use of this product in elevated-temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions. This material may produce a floating fire hazard.

**Hazardous Combustion Products:** Carbon dioxide. Carbon monoxide. Incompletely burned carbon compounds. Smoke. Fumes.

### 6. ACCIDENTAL RELEASE MEASURES

**Spill Clean-Up Procedures:** COMBUSTIBLE LIQUID. Eliminate all sources of ignition. Evacuate unprotected personnel from area. Maintain adequate ventilation. Follow personal protective equipment recommendations found in Section 8. Never exceed any occupational exposure limit. Shut off source of leak if safe to do so. Use water spray to control vapor. A vapor suppressing foam may be used to reduce vapors. Contain spill, place into drums for proper disposal. Soak up residue with non-flammable absorbent material. DO NOT use sawdust or other cellulose-type material. Place in non-leaking containers for immediate disposal. Flush remaining area with water to remove trace residue and dispose of properly. Avoid direct discharge to sewers and surface waters. Notify authorities if entry occurs. Prevent entry into basements, low areas, or confined areas. Use non-sparking

## ROAD TECH GLASS CLEANING WIPES

Product ID: MC010906

tools and equipment. For large spills: Water spray may reduce vapor, but may not prevent ignition in closed spaces.

### 7. HANDLING AND STORAGE

**Handling:** Avoid contact with eyes, skin, and clothing. Use with adequate ventilation. Do not swallow. Avoid breathing vapors, mists, or dust. Do not eat, drink, or smoke in work area. Wash thoroughly after handling. Empty containers retain product residue (vapor, dust, or liquid) and can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other source of ignition. They may explode and cause injury or death. Launder contaminated clothing before reuse. Air-dry contaminated clothing in a well ventilated area before laundering. Always open containers slowly to allow any excess pressure to vent. Do NOT use compressed air for filling, discharging, or handling operations. Avoid splash filling. Ground all equipment and containers before opening to prevent accumulation of static charge. Ground lines and equipment used during transfer to reduce the possibility of static spark-initiated fire or explosion. Use non-sparking tools.

**Storage:** COMBUSTIBLE LIQUID. Store in a cool, well ventilated area away from all sources of ignition and out of direct sunlight. Store in a dry location away from heat. Keep away from incompatible materials. Keep containers tightly closed. Do not store in unlabeled or mislabeled containers. Static electricity may accumulate and create a fire hazard. Ground fixed equipment. Bond and ground transfer containers and equipment. Do not store or handle in aluminum equipment at temperatures above 122 F.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### OSHA Exposure Guidelines:

<u>Component</u>	<u>Limits</u>
Isopropyl Alcohol	400 ppm TWA; 980 mg/m <sup>3</sup> TWA

#### ACGIH Exposure Guidelines:

<u>Component</u>	<u>Limits</u>
Isopropyl Alcohol	200 ppm TWA; 400 ppm STEL

**Engineering Controls:** General room ventilation is required. Use explosion-proof ventilation equipment. Maintain adequate ventilation. Do not use in closed or confined spaces. Keep levels below exposure limits. To determine exposure levels, monitoring should be performed regularly.

**Eye/Face Protection:** Wear safety glasses with side shields while handling this product. Wear additional eye protection such as chemical safety goggles when the possibility exists for eye contact with splashing or spraying liquid, or airborne material.

**Skin Protection:** Material is not considered a skin contact hazard; however, it is advised that personnel minimize skin contact. Protective gloves: Chemical-resistant. Natural rubber. Butyl rubber. Nitrile. Neoprene. Viton (R).

**Respiratory Protection:** Respiratory protection must be worn if ventilation does not eliminate symptoms or keep levels below recommended exposure limits. If exposure limits are exceeded, wear: NIOSH-Approved organic respirator. NIOSH-Approved Supplied Air Respirator (SAR). NIOSH-Approved self-contained breathing apparatus. DO NOT exceed limits established by the respirator manufacturer. All respiratory protection programs must comply with OSHA 29 CFR 1910.134 and ANSI Z88.2 requirements and must be followed whenever workplace conditions require a respirator's use.

**Other Protective Equipment:** Eye-wash station. Safety shower. Rubber apron. Rubber boots. Protective clothing.

**General Hygiene Conditions:** Wash with soap and water before meal times and at the end of each work shift. Good manufacturing practices require gross amounts of any chemical be removed from skin as soon as practical, especially before eating or smoking.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Liquid.

**Color:** Clear. Colorless.

## ROAD TECH GLASS CLEANING WIPES

Product ID: MC010906

**Odor:** Orange citrus odor.  
**Boiling Point (deg. F):** > 180  
**Freezing Point (deg. F):** N.D.  
**Melting Point (deg. F):** N.D.  
**Vapor Pressure (mm Hg):** N.D.  
**Vapor Density (air=1):** N.D.  
**Solubility in Water:** Complete  
**pH:** 7 (as is)  
**Specific Gravity:** 0.9953 @ 25C  
**% Volatile (wt%):** ~100  
**Evaporation Rate (nBuAc = 1):** N.D.  
**VOC (wt%):** <5  
**VOC (lbs/gal):** <0.41  
**Viscosity:** N.D.  
**Flash Point:** 155 Deg. F.  
**Flash Point Method:** TCC.  
**Lower Explosion Limit:** ~2  
**Upper Explosion Limit:** ~12.7  
**Autoignition Temperature:** No Data  
**Fire Point:** N.D.

### 10. STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions.

**Conditions to Avoid:** Avoid contact with heat, sparks, electric arcs, other hot surfaces, and open flames. Avoid static discharges. Avoid other ignition sources. Do not store or handle in aluminum equipment at temperatures above 122 F.

**Incompatible Materials:** Strong oxidizing agents.

**Hazardous Decomposition Products:** Decomposition products depend upon temperature, air supply and the presence of other materials. Carbon dioxide. Carbon monoxide. Irritating and/or toxic gases.

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur under normal conditions.

### 11. TOXICOLOGICAL INFORMATION

<u>Component</u>	<u>Oral LD50</u>	<u>Dermal LD50</u>	<u>Inhalation LC50</u>
Isopropyl Alcohol	Rat: 4396 mg/kg	Rat: 12800 mg/kg Rabbit: 12870 mg/kg	4H Rat: 72.6 mg/L

### 12. ECOLOGICAL INFORMATION

**Ecotoxicological Information:** No data available.

**Chemical Fate Information:** No data available.

### 13. DISPOSAL CONSIDERATIONS

**Hazardous Waste Number:** N.A.

**Disposal Method:** Dispose of in accordance with all local, state and federal regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. Since emptied containers retain product residue, follow label warnings even after container is emptied. DO NOT pressurize, cut, weld, solder, drill, grind or expose empty containers to heat, flame, sparks or other sources of ignition.

### 14. TRANSPORTATION INFORMATION

**DOT (Department of Transportation):**

**ROAD TECH GLASS CLEANING WIPES**

Product ID: MC010906

**Proper Shipping Name:** Not regulated by the DOT.

**Note:** This product is not DOT regulated according to 49 CFR 173.150 (e) (1) and (2).

**15. REGULATORY INFORMATION**

**TSCA Inventory Status:** All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

**SARA Title III Section 311/312 Category Hazards:**

<u>Immediate (Acute)</u> YES	<u>Delayed (Chronic)</u> YES	<u>Fire Hazard</u> YES	<u>Pressure Release</u> NO	<u>Reactive</u> NO
---------------------------------	---------------------------------	---------------------------	-------------------------------	-----------------------

<u>Regulated Components:</u> <u>Component</u>	<u>CAS</u> <u>Number</u>	<u>CERCLA</u> <u>RQ</u>	<u>SARA</u> <u>EHS</u>	<u>SARA</u> <u>313</u>	<u>U.S.</u> <u>HAP</u>	<u>WI</u> <u>HAP</u>	<u>Prop</u> <u>65</u>
Isopropyl Alcohol	67-63-0	No	No	No	No	No	No

**Prop 65 - May Contain the Following Trace Components**

No data available.

**16. ADDITIONAL INFORMATION**

**Hazard Rating System**

**Health:** 1\*

**Flammability:** 2

**Reactivity:** 0

\* = Chronic Health Hazard

**NFPA Rating System**

**Health:** 1

**Flammability:** 2

**Reactivity:** 0

**Special Hazard:** None

**MSDS Abbreviations**

N.A. = Not Applicable

N.D. = Not Determined

HAP = Hazardous Air Pollutant

VOC = Volatile Organic Compound

C = Ceiling Limit

N.E./Not Estab. = Not Established

**MSDS Prepared by:** LW

**Reason for Revision:** Change(s) made in Section 14.

The data in this Material Safety Data Sheet relates to the specific material designated and does not relate to its use in combination with any other material or process. The data contained is believed to be correct. However, since conditions of use are outside our control it should not be taken as warranty or representation for which HYDRITE CHEMICAL CO. assumes legal responsibility. This information is provided solely for your consideration, investigation, and verification.