

## LYMAN PRODUCTS: RAYTECH DIVISION

### SAFETY DATA SHEET

Safety Data Sheet (conforms to Regulation (EC) 1907/2006, Regulation (EC) 1272/2008 and Regulation (EC) 2015/830), US 29CFR1910.1200, Canada Hazardous Products Regulation

Date Issued: 11/4/15  
Date Revised: None  
Revision Number: New SDS

#### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

##### 1.1 Product Identifier

**Trade Name** Dri-Shine III  
**Product Number** 41.266, 41-277, 41-245

##### 1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

**Product Use:** Weapons Cleaner

**Restrictions on Use:** None known

##### 1.3 Details of the Supplier of the Safety Data Sheet

**Manufacturer:** Lyman Products  
Raytech Division  
475 Smith Street  
Middletown, CT 06457 USA  
**Information Phone Number:** (860) 632-2020  
**E-mail**

##### 1.4 Emergency Telephone Number

**Emergency Spill Information** For Hazardous Materials [or Dangerous Goods] Incident  
Spill, Leak, Fire, Exposure, or Accident  
Call CHEMTREC Day or Night  
Within USA and Canada: 1-800-424-9300 or  
+1 703-527-3887 (collect calls accepted)

#### SECTION 2: HAZARDS IDENTIFICATION

##### 2.1 Classification of the Substance or Mixture

**US Hazard Classification (29CFR 1910.1200-2012):** Combustible dust

##### GHS/CLP (1272/2008) Classification:

This product does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008

##### 2.2 Label Elements

Warning

May form combustible dust concentrations in air.

##### 2.3 Other Hazards: None

#### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

##### 3.2 Mixture

Chemical Name	CAS#	EINECS#	GHS/CLP Classification	% w/w
Processed Corn Cobs	Mixture	Mixture	Not Hazardous	90-100
Aluminum Oxide	1344-28-1	215-691-6	Not Hazardous	1-5

Highly refined mineral oil	Proprietary	Proprietary	Not Hazardous	1-5
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The exact percentage is a trade secret

#### SECTION 4: FIRST AID MEASURES

##### 4.1 Description of First Aid Measures

**Eye:** If contact with dust occurs, rinse thoroughly with water. Get medical attention if irritation occurs and persists.

**Skin:** No first aid should be needed. If irritation occurs, wash contact area with soap and water. Get medical attention if irritation or symptoms of exposure develop.

**Inhalation:** No first aid should be needed. If irritation from dust occurs and persists, get medical attention.

**Ingestion:** No harmful effects are expected. If symptoms occur, get medical attention.

**4.2 Most Important symptoms and effects, both acute and delayed:** If dust is generated, it may cause slight mechanical eye and skin irritation, and respiratory irritation. Symptoms would include itching eyes and skin, cough, and nasal congestion.

**4.3 Indication of any immediate medical attention and special treatment needed:** Immediate first aid should not be needed.

#### SECTION 5: FIRE AND EXPLOSION DATA

**5.1 Extinguishing Media:** Use water fog or spray, universal foam, or dry chemical. Do not use solid water jet as that may create a dust cloud that can present an explosion hazard.

##### 5.2 Special Hazards Arising from the Substance or Mixture

**Unusual Fire and Explosion Hazards:** Avoid generating dust. Concentrated dust/air combinations may produce explosive conditions. As with all organic dusts, fine particles suspended in air in critical proportions and in the presence of an ignition source may ignite and/or explode. Dust may be sensitive to ignition by electrostatic discharge, electrical arcs, sparks, welding torches, cigarettes, open flame, or other significant heat sources. As a precaution, implement standard safety measures for handling finely divided organic powders.

**Combustion Products:** Oxides of carbon.

##### 5.3 Advice for Fire-Fighters:

**Special Fire Fighting Procedures:** Firefighters should wear full emergency equipment and approved positive pressure self-contained breathing apparatus. Use water spray to cool fire-exposed containers.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

##### 6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Wear appropriate protective equipment. Avoid creating and breathing dust. Eliminate ignition sources. Keep unprotected persons away. Although the substance has no or very low acute toxicity hazard, it is advised to avoid contact with skin, eyes, and clothing; wear suitable protective equipment when needed.

##### 6.2 Environmental Precautions:

Avoid unintentional release to the environment.

##### 6.3 Methods and Material for Containment and Cleaning Up:

Wet down and collect in a manner to minimize the generation of airborne dusts or vacuum with a high efficiency vacuum cleaner. If a vacuum is used, explosion proof equipment is required. Non-sparking tools should be used. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentrations. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air.) Non-sparking tools should be used.

**6.4 Reference to Other Sections:** Refer to Section 8 for personal protective equipment and Section 13 for disposal information.

#### SECTION 7: HANDLING AND STORAGE

**7.1 Precautions for Safe Handling:** Avoid creating and breathing dusts. Use only with adequate ventilation. Wash thoroughly with soap and water after handling. Minimize the generation and accumulation of dust. Keep dust away from open flames, hot

surfaces and sources of ignition. Follow good housekeeping practices to keep surfaces, including areas overhead such as piping, drop ceilings, ductwork, etc. free from settled dust. Dry powders can build static electricity charges when subjected to friction of transfer and in mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.

**7.2 Conditions for Safe Storage, Including any Incompatibilities:** Store in a dry area away from incompatible materials.

**7.3 Specific end use(s):** None specified

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1 Control Parameters:** Refer to country-specific legislation for specific requirements where not listed below.

Chemical Name	Exposure Limits
Processed Corn Cobs (as particulates not otherwise classified, or dust)	15 mg/m <sup>3</sup> TWA (Total Dust); 5 mg/m <sup>3</sup> TWA (Respirable) OSHA PEL 10 mg/m <sup>3</sup> TWA Belgium OEL 4 mg/m <sup>3</sup> TWA (Inhalable) 3 mg/m <sup>3</sup> TWA Belgium (respirable fraction) 10 mg/m <sup>3</sup> TWA South Korea (respirable fraction)
Aluminum Oxide	15 mg/m <sup>3</sup> TWA (Total Dust); 5 mg/m <sup>3</sup> TWA (Respirable) OSHA PEL 1 mg/m <sup>3</sup> TWA (Inhalable) ACGIH TLV 10 mg/m <sup>3</sup> TWA (Inhalable); 4 mg/m <sup>3</sup> TWA (Respirable) UK OEL 4 mg/m <sup>3</sup> TWA (Inhalable); 1.5 mg/m <sup>3</sup> TWA (Respirable) DFG MAK 10 mg/m <sup>3</sup> TWA France (respirable) 10 mg/m <sup>3</sup> TWA South Korea
Highly refined mineral oil	5 mg/m <sup>3</sup> TWA OSHA PEL 5 mg/m <sup>3</sup> TWA (Inhalable) ACGIH TLV 5 mg/m <sup>3</sup> TWA Belgium OEL

### 8.2 Exposure Controls:

**Appropriate Engineering Controls:** Use with adequate general or local exhaust ventilation to minimize exposure. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks.

**Respiratory Protection:** None required for normal use. If needed, an approved dust respirator may be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

**Skin Protection:** Impervious gloves are recommended if needed to avoid prolonged contact.

**Eye Protection:** None should be needed under normal use conditions. Safety glasses should be used if eye contact is likely.

**Other Protective Equipment:** None should be needed under normal use conditions.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic Physical and Chemical Properties

<b>Appearance:</b> Green granules	<b>Vapor Density:</b> Not applicable
<b>Odor:</b> Slight hydrocarbon	<b>Specific Gravity:</b> No data available
<b>Odor Threshold:</b> No data available	<b>Solubility:</b> Very slightly soluble in water
<b>pH:</b> Not applicable	<b>Octanol/Water Partition Coefficient:</b> No data available
<b>Melting Point/Freezing Point:</b> Not applicable	<b>Autoignition Temperature:</b> No data available
<b>Boiling Point:</b> Not applicable	<b>Decomposition Temperature:</b> No data available
<b>Flash Point:</b> Not applicable	<b>Viscosity:</b> Not applicable

<b>Evaporation Rate:</b> Not applicable	<b>Explosive Properties:</b> Combustible dust
<b>Flammable Limits:</b> LEL: Not applicable UEL: Not applicable	<b>Oxidizing Properties:</b> None
<b>Vapor Pressure:</b> Not applicable	<b>Flammability (solid, gas):</b> No data available

**9.2 Other Information:** None available

## SECTION 10: STABILITY AND REACTIVITY

**10.1 Reactivity:** Not reactive

**10.2 Chemical Stability:** Stable

**10.3 Possibility of Hazardous Reactions:** Will not occur.

**10.4 Conditions to Avoid:** Keep away from excessive heat and open flames.

**10.5 Incompatible Materials:** Strong oxidizers.

**10.6 Hazardous Decomposition Products:** Combustion will produce oxides of carbon.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on Toxicological Effects:

#### Potential Health Effects:

**Eye Contact:** If dust is generated, it may cause slight mechanical eye irritation. Corneal injury is unlikely.

**Skin Contact:** If dust is generated, may cause slight mechanical irritation with prolonged or repeated exposure.

**Inhalation:** If dust is generated, may cause slight nose and throat irritation.

**Ingestion:** Not expected to be harmful. Ingestion of large amounts may cause gastrointestinal distress.

#### Acute Toxicity Values:

Processed Corn Cobs: No data available.

Aluminum Oxide: LD50 oral rat >15900 mg/kg, inhalation rat LC50 > 2.3 mg/L/4 hr

Highly refined mineral oil: LD50 oral rat >5000 mg/kg; LD50 dermal rabbit >5000 mg/kg

**Skin corrosion/irritation:** No data available for mixture. Components are not skin irritants.

**Eye damage/irritation:** No data available for mixture. Components are not eye irritants.

**Respiratory Irritation:** No data available for mixture. Components are not respiratory irritants.

**Respiratory Sensitization:** No data available for mixture. Components are not skin sensitizers.

**Skin Sensitization:** No data available for mixture. Components are not respiratory sensitizers.

**Germ Cell Mutagenicity:** No data available for mixture. Components are not germ cell mutagens.

**Carcinogenicity:** None of the components of this product present at 0.1% or greater are listed as carcinogens by OSHA, IARC, NTP, ACGIH and the EU CLP. The highly refined mineral oil consists of types shown to be non-carcinogenic in animal skin painting studies.

**Reproductive Toxicity:** No data available for mixture. Components are not reproductive toxins.

**Aspiration Hazard:** No data available for mixture. Components do not present an aspiration hazard.

#### Specific Target Organ Toxicity:

Single Exposure: No data available

Repeat Exposure: No data available.

<b>SECTION 12: ECOLOGICAL INFORMATION</b>
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**12.1 Toxicity**

Aluminum Oxide: Lepomis cyanellus NOEC > 50 mg/L/96 hr

Not expected to be harmful to the environment. Highly refined mineral oil is not soluble in water and not expected to be toxic but may cause physical coating of aquatic organisms and interfere with respiration.

**12.2 Persistence and Degradability:** Highly refined mineral oil is not expected to be readily biodegradable but is expected to be inherently biodegradable. Corn cob will readily degrade. Aluminum oxide is not degradable.

**12.3 Bioaccumulative Potential:** No data available

**12.4 Mobility in Soil:** No data available

**12.5 Results of PBT and vPvB Assessment:** Not required

**12.6 Other Adverse Effects:** Non known

<b>SECTION 13: DISPOSAL CONSIDERATIONS</b>
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**13.1 Waste Treatment Methods:**

Dispose in accordance with all local, state and national regulations.

<b>SECTION 14: TRANSPORTATION INFORMATION</b>
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	<b>14.1 UN Number</b>	<b>14.2 UN Proper Shipping Name</b>	<b>14.3 Hazard Class(s)</b>	<b>14.4 Packing Group</b>	<b>14.5 Environmental Hazards</b>
<b>US DOT</b>	None	Not regulated	N/A	N/A	None
<b>Canadian TDG</b>	None	Not regulated	N/A	N/A	None
<b>EU ADR/RID</b>	None	Not regulated	N/A	N/A	None
<b>IMDG</b>	None	Not regulated	N/A	N/A	None
<b>IATA/ICAO</b>	None	Not regulated	N/A	N/A	None

**14.6 Special Precautions for User:** Not applicable

**14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code:** Not applicable

<b>SECTION 15: REGULATORY INFORMATION</b>
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**15.1 Safety, Health and Environment Regulations/Legislation Specific for the Substance or Mixture:****U.S. FEDERAL REGULATIONS:**

**CERCLA 103 Reportable Quantity:** This product is not subject to reporting under CERCLA. Some states have more stringent reporting requirements. Report all spills in accordance with local, state, and federal regulations.

**SARA TITLE III:**

**Hazard Category for Section 311/312:** Fire Hazard

**Section 313 Toxic Chemicals:** This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements: None

**Section 302 Extremely Hazardous Substances (TPQ):** None

**EPA Toxic Substances Control Act (TSCA) Status:** All of the components of this product are listed on TSCA.

**STATE REGULATIONS:**

**California Proposition 65:** This product contains the following substances known to the State of California to cause cancer, birth defects or other reproductive harm: <1 ppm hexavalent chromium

**INTERNATIONAL REGULATIONS:**

**US EPA TSCA Inventory:** All of the components are listed on the TSCA inventory.

**Canadian Environmental Protection Act:** All of the components are listed on the Canadian Domestic Substances List.

**European Union:** All of the components are listed on the European Inventory of New and Existing Chemical Substances (EINECS) inventory.

**Australia:** All of the ingredients of this product are listed on the Australian Inventory of Chemical Substances (AICS).

**China:** All of the ingredients of this product are listed on the Inventory of Existing Chemical Substance in China (IECSC).

**Korea:** All of the components of this product are listed on the Korean Existing Chemical List (KECL).

**Japan:** All of the components of this product are listed on the Japanese Existing and New Chemical Substances List (ENCS).

**Philippines:** All of the components of this product are listed on the Philippine Inventory of Chemicals and Chemical Substances (PICCS).

**German WGK:** nwg

**SECTION 16: OTHER INFORMATION**

<b>HMIS Ratings:</b> Health - 1	Flammability - 2	Physical Hazard - 0
<b>NFPA Ratings:</b> Health - 1	Flammability - 2	Instability - 0

**Supersedes:** None

**Date Updated:** 11/4/15

**Revision Summary:** New document.

**GHS Classification for Reference (See Sections 2 and 3):**

None

Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing and Handling of Combustible Particulate Solids, for safe handling.

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This above information is believed to be correct but does not propose to be all inclusive and shall be used only as a guide. Lyman Products shall not be held liable for any damage resulting from handling or from contact with the above product.