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------ISO 9001: 2015-----

MATERIAL SAFETY DATA SHEET

EINECS/ELINCS 214-685-0

Section 1 - Chemical Product and Company Identification Methyltrimethoxysilane, 98% Code M 0138

Section 2 - Composition, Information on Ingredients

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CAS#	Chemical Name	Percent	
1185-55-3	Methyltrimethoxysilane	97%	

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: clear, colorless to pale yellow liquid. Flash Point: 11 deg C. Danger! Flammable liquid and vapor. Causes eye and skin irritation. May cause respiratory tract irritation. Target Organs: Eyes, skin.

Potential Health Effects

Eye: Causes eye irritation.

Skin: Causes skin irritation. May be harmful if absorbed through the skin. Ingestion: May cause irritation of the digestive tract. May be harmful if swallowed. Inhalation: May cause respiratory tract irritation. May be harmful if inhaled.

Chronic: No information found.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Do not induce vomiting. Get medical aid.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear. Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form an explosive mixture with air. Vapors can travel to a source of ignition and flash back. Will burn if involved in a fire. Containers may explode in the heat of a fire. Flammable liquid and vapor. Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

Flash Point: 11 deg C (51.80 deg F)

Autoignition Temperature: Not applicable.

Explosion Limits, Lower:Not available.

Upper: Not available.

NFPA Rating: (estimated) Health: 2; Flammability: 3; Instability: 1; Special Hazard: -W-

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8. Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Remove all sources of ignition. Use a spark-proof tool. Do not let this chemical enter the environment.

Section 7 - Handling and Storage

Handling: Use with adequate ventilation. Use spark-proof tools and explosion proof equipment. Do not get in eyes, on skin, or on clothing. Take precautionary measures against static discharges. Keep away from heat, sparks and flame. Do not ingest or inhale. Storage: Keep away from sources of ignition. Store in a cool, dry place. Store in a tightly closed container. Flammables-area. Store protected from moisture. Store under an inert atmosphere.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs	
Methyltrimethoxysilane	none listed	none listed	none listed	
OSHA Vacated PELs: Methyltrimethoxysilane: No OSHA Vacated PELs are listed for this chemical.				

Personal Protective Equipment Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Skin: Wear appropriate protective gloves to prevent skin exposure. Clothing: Wear appropriate protective clothing to prevent skin exposure. Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Appearance: clear, colorless to pale yellow Odor: None reported. pH: Not available. Vapor Pressure: Not available. Vapor Density: Not available. Evaporation Rate:Not available. Viscosity: 0.5 mPa @ 20 deg C Boiling Point: 102 deg C @ 760 mmHg Freezing/Melting Point:-50 deg C Decomposition Temperature:Not available. Solubility: Insoluble. Specific Gravity/Density:0.950 Molecular Formula:C4H12O3Si Molecular Weight:136.22

Section 10 - Stability and Reactivity

Chemical Stability: Moisture sensitive. Conditions to Avoid: Incompatible materials, ignition sources, excess heat, exposure to moist air or water. Incompatibilities with Other Materials: Strong oxidizing agents, strong acids. Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, oxides of silicon. Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

RTECS#: CAS# 1185-55-3: VV4650000 LD50/LC50: CAS# 1185-55-3: Draize test, rabbit, eye: 100 uL/24H Mild; Oral, rat: LD50 = 12300 uL/kg;

Carcinogenicity:

CAS# 1185-55-3: Not listed by ACGIH, IARC, NTP, or CA Prop 65. Epidemiology: No information available. Teratogenicity: No information available. Reproductive Effects: No information available. Mutagenicity: No information available. Neurotoxicity: No information available. Other Studies:

Section 12 - Ecological Information

Ecotoxicity: No data available. No information available. Environmental: No information available. Physical: No information available. Other: Do not empty into drains.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. RCRA P-Series: None listed. RCRA U-Series: None listed.

Section 14 - Transport Information

US DOT Canada TDG Shipping Name: FLAMMABLE LIQUIDS, N.O.S. Hazard Class: 3 3 UN Number: UN1993 UN1993 Packing Group: II II Additional Info: FP 11C

FLAMMABLE LIQUID NOS (METHYLTRIMETHOXYSILANE)

Section 15 - Regulatory Information **US FEDERAL** TSCA CAS# 1185-55-3 is listed on the TSCA inventory. Health & Safety Reporting List None of the chemicals are on the Health & Safety Reporting List. Chemical Test Rules None of the chemicals in this product are under a Chemical Test Rule. Section 12b None of the chemicals are listed under TSCA Section 12b. TSCA Significant New Use Rule None of the chemicals in this material have a SNUR under TSCA. CERCLA Hazardous Substances and corresponding RQs None of the chemicals in this material have an RQ. SARA Section 302 Extremely Hazardous Substances None of the chemicals in this product have a TPQ. No chemicals are reportable under Section 313. Section 313 Clean Air Act: This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depletors. This material does not contain any Class 2 Ozone depletors. Clean Water Act: None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA. OSHA: None of the chemicals in this product are considered highly hazardous by OSHA. STATE CAS# 1185-55-3 is not present on state lists from CA, PA, MN, MA, FL, or NJ. California Prop 65 California No Significant Risk Level: None of the chemicals in this product are listed. European/International Regulations European Labeling in Accordance with EC Directives Hazard Symbols: F **Risk Phrases:** R 11 Highly flammable. Safety Phrases: S 16 Keep away from sources of ignition - No smoking. WGK (Water Danger/Protection) CAS# 1185-55-3: 1 Canada - DSL/NDSL CAS# 1185-55-3 is listed on Canada's DSL List. Canada - WHMIS This product has a WHMIS classification of B2, D2B.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List

CAS# 1185-55-3 is listed on the Canadian Ingredient Disclosure List.

Section 16: Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.