

MATERIAL SAFETY DATA SHEET



Your Chemical Solutions Provider

DATE ISSUED :	10/9/2013
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MIL-DTL-64159B Ty.II #36270 Flat Gray Polyurethane

1. PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: MIL-DTL-64159B Ty.II #36270 Flat Gray Polyurethane

SELLERS INFORMATION

Chemsol
8423 Boettner Road
Bridgewater, MI 48115
Phone: (734)429-0033

24 HR. EMERGENCY TELEPHONE NUMBER

CHEMTREC (US Transportation): 1(800)424-9300
CHEMTREC (International Transportation): +1(202)483-7616

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE : Liquid

IMMEDIATE CONCERNS : May cause eye, skin and respiratory tract irritation. May cause asphyxiation, or brain, lung or other organ injury if inhaled, swallowed or absorbed by the skin.

POTENTIAL HEALTH EFFECTS

EYES : Liquid is may be irritating to the eyes. High vapor concentrations may also be irritating.

SKIN : Liquid may be irritating to the skin. Prolonged or repeated contact can result in drying of the skin which may result in skin irritation and dermatitis (rash). Liquid not likely to be absorbed through the skin.

INGESTION : Ingestion may cause irritation and damage to mucous membranes.

INHALATION : Vapors may be irritating to the nose, throat, and respiratory tract. Prolonged inhalation may cause headaches or nausea.

CHRONIC : No chronic health concerns known.

CARCINOGENICITY : This material is not currently known to have carcinogenic properties.

MUTAGENICITY : This material is not know to have mutagenic effects on genetic material.

IRRITANCY: This material may cause irritation to the eyes, skin, and respiratory tract. Use correct PPE when handling this material.

REPRODUCTIVE TOXICIITY

REPRODUCTIVE EFFECTS : This material is not known to cause any reproductive system damage.

TERATOGENIC EFFECTS : This material is not known to contain any teratogenic substances.

MIL-DTL-64159B Ty.II #36270 Flat Gray Polyurethane

3. COMPOSITION/CHEMICAL INFORMATION

Chemical Name	CAS Number	Weight %
Water	7732-18-5	50% to 75%
Titanium Dioxide	13463-67-7	25% to 50%
Polyurethane Resin	151911-67-0	5% to 10%
Silicone Dioxide (amorphous)	68611-44-9	1% to 5%

* Toxic chemical subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

4. FIRST AID MEASURES

EYES : Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Seek medical aid if irritation persists.

SKIN : Flush skin with soap and water while removing contaminated clothing. If irritation occurs, seek immediate medical attention. Do not reuse clothing or shoes until thoroughly cleaned.

INGESTION : Do not induce vomiting, and seek immediate medical attention. Do not attempt to give any liquids if victim is unconscious.

INHALATION : Immediately remove victim to fresh air. If victim is not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Seek immediate medical attention.

NOTES TO PHYSICIAN: If the victim is a child, give no more than 1 glass of water and 15cc (1 tablespoon) syrup of ipecac. If symptoms such as loss of gag reflex, convulsions, or unconsciousness occur before emesis, gastric lavage should be considered following intubation with a cuffed endotracheal tube.

5. FIRE FIGHTING MEASURES

FLASH POINT AND METHOD : 389 degrees Fahrenheit Tagliabue Closed Cup (TCC)

FLAMMABLE LIMITS : N/A

AUTOIGNITION TEMPERATURE : No data available.

GENERAL HAZARD : None known. Material is not combustible in normal conditions.

EXTINGUISHING MEDIA : Use water fog, "alcohol" foam, dry chemical, or CO2.

FIRE FIGHTING PROCEDURES : Clear the fire area of unprotected personnel. Do not enter confined fire space without full bunker gear; including a positive pressure NIOSH approved SCBA. Cool fire exposed containers with water. If water is used, fog nozzles are preferred

MIL-DTL-64159B Ty.II #36270 Flat Gray Polyurethane

EXPLOSION HAZARDS : When heated above the flash point, this material emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES : Ventilate area of leak or spill for at least 24 hours or until it has been declared safe. Stop the leak if there is no risk involved. Clean-up personnel require protective clothing and respiratory protection from vapors. Absorb liquid with inert material. Only specially trained or qualified personnel should handle the emergency.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL : Keep material out of storm sewers and ditches which lead to waterways.

LAND SPILL : Contact applicable authorities and determine applicable regulations based on MSDS information.

AIR RELEASE : Contact applicable authorities and determine applicable regulations based on MSDS information.

7. HANDLING AND STORAGE

GENERAL PROCEDURES : Avoid Freezing.

Avoid contact with bacteria, fungus, or other microorganisms.

Keep container closed when not in use to avoid skinning and microorganism contamination.

COMMENTS : KEEP OUT OF REACH OF CHILDREN! Empty containers retain product residue 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 sources of ignition. Buckets may be a drowning hazard, do not leave children unattended with open buckets.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES :

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

CHEMICAL NAME	EXPOSURE LIMITS				
		OSHA PEL		ACGIH TLV	
		ppm	mg/m ₃	ppm	mg/m ₃
Titanium Dioxide	TWA	N/A	15	N/A	NL
	STEL	N/A	NL	N/A	NL
Silicone Dioxide (amorphous)	TWA	N/A	15	N/A	10
	STEL	N/A	NL	N/A	NL

OSHA TABLE COMMENTS:

NL = Not Listed

Ca = "WARNING: THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM."

ENGINEERING CONTROLS: Provide exhaust ventilation sufficient to keep the airborne concentration of this product below its exposure limits. Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination.

MIL-DTL-64159B Ty.II #36270 Flat Gray Polyurethane

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Use chemical safety goggles and/or full face shield where splashing is possible. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work areas.

SKIN: Wear resistant gloves (consult your safety equipment supplier). To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

RESPIRATORY: If exposure may or does exceed occupational exposure limits (Section 8) use a NIOSH approved respirator to prevent overexposure. In accord with 29 CFR 1910.134, use either an atmosphere-supplying respirator or an air-purifying respirator for organic vapors.

HYGIENIC WORK PRACTICES: Use good personal hygiene when handling this product. Wash hands after use, before eating, drinking, smoking, or using the toilet.

OTHER USE PRECAUTIONS: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

COMMENTS: May be harmful or fatal if swallowed. May irritate body tissues. Use with adequate ventilation. Avoid breathing vapor. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE : Liquid

ODOR : Slight ammonia odor.

pH : Not Applicable

BOILING POINT : 147 Degrees Fahrenheit to 240 Degrees Fahrenheit

FREEZING POINT : 32 Degrees Fahrenheit

VOLATILE ORGANIC COMPOUNDS: 78 G/L (0.65 Lbs/Gal)

(VOC Theoretical – As Packaged)

HAZARDOUS AIR POLLUTANTS (HAP's): 0 G/L (0.00 Lbs/Gal)

(HAP's Theoretical – As Packaged)

SOLUBILITY IN WATER : Complete.

EVAPORATION RATE : No data available

DENSITY : 11.73 (Lbs/Gal)

10. STABILITY AND REACTIVITY

STABLE : Yes

HAZARDOUS POLYMERIZATION : Will not occur

CONDITIONS TO AVOID : Avoid freezing.

POLYMERIZATION : None known

HAZARDOUS DECOMPOSITION PRODUCTS: None known

INCOMPATIBLE MATERIALS : None known

MIL-DTL-64159B Ty.II #36270 Flat Gray Polyurethane

11. TOXICOLOGICAL INFORMATION

GENERAL COMMENTS: None identified.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: Keep out of waterways.

13. DISPOSAL INFORMATION

DISPOSAL METHOD: The preferred options for disposal are to send to licensed reclaimers, or to permitted incinerators. Any disposal practice must be in compliance with federal, state, and local regulations. Do not dump into sewers, ground, or any body of water.

EMPTY CONTAINER: KEEP OUT OF REACH OF CHILDREN! Empty containers retain product residue 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 sources of ignition.

RCRA/EPA WASTE INFORMATION: 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. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME : N/A (Not Regulated)
(UN#, Proper Shipping Name, Class, Packing Group)

*** The manufacturer verifies that the material was supplied and shipped in the proper packages in accordance with DOT and federal regulations that are applicable to the mode of transportation selected. The shipper must verify that the packaging supplied is acceptable to be re-shipped in per the federal regulations applicable to the mode of transportation for re-shipment. Regulations may change depending on mode of transportation selected.***

15. REGULATORY INFORMATION

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: This material is classified as non-hazardous.

FIRE : No **PRESSURE GENERATING :** No

REACTIVITY : No **ACUTE :** No **CHRONIC :** No

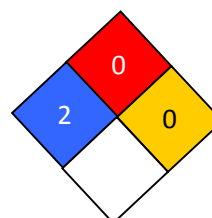
313 REPORTABLE INGREDIENTS: To the best of our knowledge, this product is not listed as a toxic chemical.

302/304 EMERGENCY PLANNING

EMERGENCY PLAN: To the best of our knowledge, this material is not listed as an extremely hazardous substance.

16. OTHER INFORMATION

NFPA CODES



MIL-DTL-64159B Ty.II #36270 Flat Gray Polyurethane

HMIS RATING	
Health :	2
Flammability :	0
Reactivity :	0
Personal Protection :	G

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