MATERIAL SAFETY DATA SHEET

CHEMSOL
Your Chemical Solutions Provider

DATE ISSUED :	10/9/2013

MIL-C-83286B Ty. I #16081 Gloss Gray Polyurethane

1. PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: MIL-C-83286B Ty. I #16081 Gloss 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 : DANGER! Flammable liquid and vapor. 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 severely irritating to the eyes. High vapor concentrations are also irritating.
SKIN : Liquid is moderately 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 may be absorbed through the skin.
INGESTION : Ingestion may cause headache, dizziness, fatigue, and central nervous system depression along with gastrointestinal disturbances.
INHALATION : Vapors may be irritating to the nose, throat, and respiratory tract. Exposure to high vapor concentrations may cause central nervous system (CNS) depression. Aspiration of liquid may cause pneumontitis, pulmonary edema, and hemorrhaging.
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.

3. COMPOSITION/CHEMICAL INFORMATION

Chemical Name	CAS Number	Weight %
*Methyl n-Amyl Ketone	110-43-0	25% to 50%
Polyester Resin Solids	NONE	15% to 20%
Titanium Dioxide	13463-67-7	10% to 15%
Limestone	1317-65-3	5% to 10%
Acetic Acid Ethyl Ester	141-78-6	1% to 5%
*Acetone	67-64-1	1% to 5%
*Methyl Ethyl Ketone	78-93-3	1% to 5%
*Butyl Acetate	123-86-4	1% to 5%
Catbon Black	1333-86-4	0% to 1%

* 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 : 91 degrees Fahrenheit Tagliabue Closed Cup (TCC)

FLAMMABLE LIMITS : 1.7% to 12.8%

AUTOIGNITION TEMPERATURE : No data available.

GENERAL HAZARD : Carbon monoxide and unidentified organic compounds may be formed during combustion.

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

FIRE FIGHTING PROCEDURES : WARNING! Flammable Liquid. 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

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 : WARNING. Flammable. Ventilate area of leak or spill for at least 24 hours or until it has been declared safe. Remove all sources of ignition. 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 : Keep away from heat, sparks, and flame. Surfaces that are hot may ignite liquid even in the absence of sparks or flame. Extinguish pilot lights, cigarettes, and turn off all other sources of ignition prior to use, and until all vapors are gone. Keep containers tightly closed and upright to prevent leakage.

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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES :

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

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CHEMICAL NAME		EXPOSURE LIMITS			
		OSHA PEL		ACGIH TLV	
		ppm	mg/m_3	ppm	mg/m_3
*Methyl n-Amyl Ketone	TWA	100	465	100	465
	STEL	NL	NL	NL	NL
Titanium Dioxide	TWA	N/A	15	N/A	NL
	STEL	N/A	NL	N/A	NL
Limestone	TWA	N/A	15	N/A	10
	STEL	N/A	NL	N/A	NL
Acetic Acid Ethyl Ester	TWA	400	1400	400	1400
	STEL	NL	NL	NL	NL
*Acetone	TWA	1000	2400	250	590
	STEL	NL	NL	NL	NL
*Methyl Ethyl Ketone	TWA	200	590	200	590
	STEL	NL	NL	300	885
*Butyl Acetate	TWA	150	710	150	710
	STEL	NL	NL	200	950
Catbon Black	TWA	N/A	3.5	N/A	3.5
	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.

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-suppling 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 : Typical paint odor.
pH : Not Applicable
BOILING POINT : 133 Degrees Fahrenheit to 244 Degrees Fahrenheit
FREEZING POINT : No data available
VOLATILE ORGANIC COMPOUNDS: 310 G/L (2.59 Lbs/Gal)
(VOC Theoretical – As Packaged)
HAZARDOUS AIR POLLUTANTS (HAP's): 24 G/L (0.20 Lbs/Gal)
(HAP's Theoretical – As Packaged)
SOLUBILITY IN WATER : Soluble in most organic solvents. Not soluble in water.
EVAPORATION RATE : No data available
DENSITY : 8.88 (Lbs/Gal)

10. STABILITY AND REACTIVITY

STABLE : Yes

HAZARDOUS POLYMERIZATION : Will not occur

CONDITIONS TO AVOID : Avoid heat, sparks, flame and contact with strong oxidizing agents. Prevent vapor accumulation.

POLYMERIZATION : Avoid heat, flame, and other sources of ignition.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and unidentified organic compounds may be formed during combustion.

INCOMPATIBLE MATERIALS : Strong oxidizers.

11. TOXICOLOGICAL INFORMATION

GENERAL COMMENTS: None identified.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: Keep out of waterways.

13. DISPOSAL INFORMATION

DISPOSAL METHOD: This material is a US EPA defined ignitable hazardous waste. 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 : UN1263, Paint, Class 3, PG III
(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

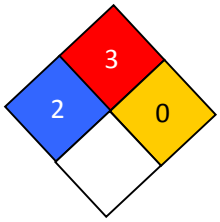
SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)
311/312 HAZARD CATEGORIES: This product should be reported as an immediate (acute) health hazard, delayed (chronic) health hazard, and a fire hazard.
FIRE : Yes **PRESSURE GENERATING :** No
REACTIVITY : No **ACUTE :** Yes **CHRONIC :** Yes
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

HMIS RATING	
Health :	2
Flammability :	3
Reactivity :	0
Personal Protection :	G

NFPA CODES



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