

MATERIAL SAFETY DATA SHEET

Questmark
12 Grandview Circle
Canonsburg, PA 15317

Phone: (724) 743-7777

For Chemical Emergency:
Domestic North America – Call Chemtrec 800-424-9300
International, Call 703-527-3887

1. PRODUCT IDENTIFICATION

PRODUCT NAME: CM5831-PE85 QuestMark Flooring Flexible Control Joint Sealer "A"

2. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS NUMBER	%	OSHA PEL	EXPOSURE LIMITS	
				ACGIH TLV	
Diphenylmethane Diisocyanate (MDI)	101-68-8	≤ 35	0.02 ppm Ceiling 0.2(mg/m ³ -Ceiling)	0.005 ppm TWA (0.05 mg/m ³ -TWA)	
Diocetyl Phthalate	117-81-7	<25	5mg/m ³	5 mg/m ³	

3. HAZARD IDENTIFICATION

HMIS RATINGS:

HEALTH	2*	FLAMMABILITY	1	REACTIVITY	1
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(0=Minimal; 1=Slight; 2=Moderate; 3=Serious; 4=Severe; *=Chronic)

ROUTES OF ENTRY:

INHALATION, (Although MDI is low in volatility, an inhalation hazard can exist from MDI aerosols or vapors formed during heating, foaming, spraying, or otherwise aerosolizing the material in an inadequately ventilated environment.)

SKIN CONTACT, EYE CONTACT

ACUTE HEALTH HAZARDS:

INHALATION- MDI vapors or mist at concentrations above TLV can irritate (burning sensation) the mucous membranes in the respiratory tract (nose, throat, lungs) causing runny nose, sore throat, coughing, chest discomfort, shortness of breath and reduced lung function (breathing obstruction). Persons with a preexisting, nonspecific bronchial hyper reactivity can respond to concentrations below the TLV with similar symptoms as well as asthma attack. Exposure well above the TLV may lead to bronchitis, bronchial spasm and pulmonary edema (fluid in lungs). These effects are usually reversible. Chemical or hypersensitive pneumonitis, with flu-like symptoms (e.g., fever, chills) has also been reported. These symptoms can be delayed up to several hours after exposure.

SKIN- Isocyanates react with skin protein and moisture and can cause irritation, which may include the following symptoms: reddening, swelling, rash, scaling, or blistering. Cured material is difficult to remove. Hot material can cause thermal burns.

EYE- Liquid, aerosols or vapors are irritating and can cause tearing, reddening, and swelling. If left untreated, corneal damage can occur and injury is slow to heal. However, damage is usually reversible.

INGESTION- Can result in irritation and corrosive action in the mouth, stomach tissue, and digestive tract. Symptoms can include sore throat, abdominal pain, nausea, vomiting, and diarrhea.

CHRONIC HEALTH HAZARDS:

INHALATION- As a result of previous repeated overexposures or a single large dose, certain individuals develop isocyanate sensitization (chemical asthma), which will cause them to react to a later exposure to isocyanate at levels well below the TLV. These symptoms; which can include chest tightness, wheezing, cough, shortness of breath or asthma attack, could be immediate or delayed (up to several hours after exposure). Similar to many non-specific asthmatic responses, there are reports that once sensitized, an individual can experience these symptoms upon exposure to dust, cold air or other irritants. This increased lung sensitivity can persist for weeks and in severe cases for several years. Overexposure to isocyanates has also been reported to cause lung damage (including decrease in lung function), which may be permanent. Sensitization can either be temporary or permanent.

SKIN- Prolonged contact can cause reddening, swelling, rash, scaling, blistering, and in some cases, skin sensitization. Individuals who have skin sensitization can develop these symptoms from contact with liquid or vapors. Animal tests have indicated that respiratory sensitization can result from skin contact with MDI. This data reinforces the need to prevent direct skin contact with MDI.

EYE- None Found.

INGESTION- None Found.

CARCINOGENICITY:

NTP (National Toxicology Program)? No.

IARC (International Agency for Research on Cancer)? Rating 3 for CAS#101-68-8

OSHA REGULATED? No.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Asthma, other respiratory disorders (bronchitis, emphysema, bronchial hyper reactivity), skin allergies, eczema.

4. FIRST AID MEASURES

INHALATION- Move to an area free from risk of further exposure. Administer oxygen or artificial respiration as needed. Obtain medical attention. Asthmatic-type symptoms may develop and may be immediate or delayed up to several hours. Consult physician should this occur.

SKIN- Remove contaminated clothing. Wash affected skin thoroughly with soap and water. Wash contaminated clothing thoroughly before reuse. For severe exposures, get under safety shower after removing clothing, then get medical attention. For lesser exposures, seek medical attention if irritation develops or persists after the area is washed.

EYE- Flush with copious amount of water, preferably, lukewarm water for at least 15 minutes, holding eyelids open all the time to ensure that the eyes are being irrigated. Refer individual to physician or ophthalmologist for immediate follow-up.

INGESTION- DO NOT INDUCE VOMITING. Wash mouth out with water. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Consult physician.

NOTE TO PHYSICIAN:

INHALATION / RESPIRATORY- This compound is a known pulmonary sensitizer. Treatment is essentially symptomatic. An individual having a pulmonary sensitization reaction to this material should be removed from exposure to any isocyanate.

SKIN- This compound is a known skin sensitizer. Treat symptomatically as for contact dermatitis or thermal burns. If burned, treat as thermal burn. An individual having a skin sensitization reaction to this material should be removed from exposure to any isocyanate.

EYE - Stain for evidence for corneal injury. If cornea is burned, instill antibiotic steroid preparation frequently. Workplace vapors have produced reversible corneal epithelial edema impairing vision.

INGESTION- Treat symptomatically. MDI has a very low oral toxicity. There is no specific antidote. Inducing vomiting is contraindicated because of the irritating nature of this compound.

5. FIRE FIGHTING MEASURES

FLASH POINT (Method Used): 399.2° F/ 204° C (Pensky-Martens Closed Cup)

FLAMMABLE LIMITS:

LEL (Lower Explosion Limit)= Not Available.

UEL (Upper Explosion Limit)= Not Available.

EXTINGUISHING MEDIA: Carbon dioxide (CO₂), dry chemical or foam. Water spray for large fires. The reaction between water and hot product may be vigorous.

SPECIAL FIRE FIGHTING PROCEDURES: Full emergency equipment with self-contained breathing apparatus and full protective clothing should be worn by firefighters.

UNUSUAL FIRE & EXPLOSION HAZARDS: During a fire, MDI vapors and other irritating, highly toxic gases may be generated by thermal decomposition or combustion. (See Section – Stability & Reactivity Data). At temperatures greater than 400° F (204°

C), polymeric MDI can polymerize and decompose which can cause pressure build-up in closed containers. Explosive rupture is possible. Therefore, use cold water to cool fire-exposed containers.

6. ACCIDENTAL RELEASE MEASURES

- Identify the material.
- Evacuate "immediate" spill area and keep nonessential or unprotected personnel away.
- Remove any ignition sources.
- Ventilate spill area.
- Equip clean-up personnel with full protective equipment (recommend eye & face protection, permeation-resistant gloves, permeation-resistant suit, permeation-resistant boots, & respirator.)
- Control the source by stopping the spill, leak, or other flow of product.
- Contain or dike the spilled product, creating a barrier around the spill and the inlet to any sewers or drains.
- Prevent spilled material from entering soil, sewers, surface water, ground water, streams, or any other bodies of water.
- If temporary control of isocyanate vapor is required, a blanket of protein foam (available at most fire departments) may be placed over the spill.
- Retain any contaminated water for removal and treatment.
- Absorb small spills with inert absorbent material (e.g. vermiculite, saw dust, clay earth, sweeping compound, sand, etc.).
- Large spills may be pumped or vacuumed into a closed, but not sealed container for disposal and then finished off with dry absorbent, followed by neutralizing solution.
- Apply neutralizing solution (see below) over spill area & absorbent.

- Scoop up absorbed material and remaining absorbent/decontaminant mixture and place in a metal drum or other approved chemical waste container (a closed, but not sealed container).
- Transport container to well-ventilated area (outside, etc.)
- Apply neutralizing solution to the absorbed material in the waste container to ensure adequate decontamination. Lid should remain loose but not sealed or tightened as dangerous pressures may result from the neutralization process.
- Monitor the drum frequently for the next 48-72 hours in case over pressurization results from continued reaction and while carbon dioxide escapes.
- Decontaminate receiving surface (floor, etc.) with neutralizing solution and let it stand for at least 15 minutes.
- Decontaminate tools & protective equipment.
- Remove protective equipment.
- Properly dispose of isocyanate contaminated materials & equipment that cannot be decontaminated. (Incineration is the preferred method.)
- NOTE: Acceptable neutralizing solutions (i.e. decontamination solutions) are:
 - 80% water + 20% non-ionic surfactant such as Dow/Union Carbide Tergitol TMN-10 (or other non-ionic surfactant which is liquid & mixes well with water)
 - OR
 - 90% water + 3-8% concentrated ammonia + 2-7% detergent.
- Recommended ratio for thorough decontamination is 1 part of spilled material to 10 parts of neutralizing solution.
- Report spill per regulatory requirements.

7. HANDLING & STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING: Store in tightly closed containers to prevent moisture contamination. Do not reseal if contamination is suspected. Avoid contact with skin and eyes. Do not breathe aerosols or vapors. Warning properties (irritation of the eyes, nose and throat or odor) are not adequate to prevent chronic overexposure from inhalation. This material can produce asthmatic sensitization upon either single inhalation exposure to a relatively high concentration or upon repeated inhalation exposure to lower concentrations. Exposure to vapors of heated MDI can be extremely dangerous. Employee education and training in the safe use and handling of this compound are required under the OSHA Hazard Communication Standard.

SPECIAL SENSITIVITY (HEAT, LIGHT, MOISTURE): If container is exposed to high heat, 400° F (204° C) it can be pressurized and possibly rupture. MDI reacts slowly with water to form CO₂ gas. This gas can cause sealed containers to expand and possibly rupture.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

VENTILATION: Local exhaust should be used to maintain levels below the TLV whenever MDI or MDI-containing products are heated, sprayed, aerosolized, or processed. Standard reference sources regarding industrial ventilation (i.e., ACGIH Industrial Ventilation) should be consulted for guidance about adequate ventilation.

RESPIRATORY PROTECTION: Airborne MDI concentrations greater than the ACGIH TLV-TWA (TLV) or OSHA PEL-C (PEL) can occur in inadequately ventilated environments when MDI or MDI-containing products are sprayed, aerosolized, or

heated. In such cases, respiratory protection must be worn. The type of respiratory protection selected must comply with the requirements set forth in OSHA's Respiratory Protection Standard (29 CFR 1910.134).

SKIN PROTECTION: Permeation resistant gloves (butyl rubber, nitrile rubber, polyvinyl alcohol). However, please note that PVA degrades in water. Cover as much of the exposed skin area as possible with appropriate clothing. If skin creams are used, keep the area covered by the cream to a minimum.

EYE PROTECTION: Chemical goggles should be used in a splash hazard environment. For additional protection, chemical goggles should be used in combination with a full face shield. Contact lenses should not be worn when working with chemicals.

MEDICAL SURVEILLANCE: Medical supervision of all employees who handle or come in contact with isocyanates is recommended. History of adult asthma, respiratory allergies (such as hay fever), eczema, history of prior isocyanate sensitization, or lack of smell are possible reasons for medical exclusion from isocyanate areas. Once a person is accurately diagnosed as sensitized to an isocyanate, no further exposure can be permitted.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Safety showers and eyewash stations should be available.

WORK/HYGIENIC PRACTICES: Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, using lavatory, and at the end of the day. Educate and train employees in safe use of product. Follow all label instructions.

9. PHYSICAL / CHEMICAL PROPERTIES

APPEARANCE (physical form, color, texture, etc.)	Clear-Light Yellow Liquid
ODOR:	Slight musty
MELTING POINT:	Not available
BOILING POINT:	>302°F Decomposes
VAPOR PRESSURE (mm Hg):	Not available
VAPOR DENSITY (Air = 1)	8.5
SPECIFIC GRAVITY (H ₂ O = 1):	1.2 @ 77° F (25° C)

10. STABILITY & REACTIVITY

STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID (if unstable): Contamination with water.

INCOMPATIBILITY (MATERIALS TO AVOID): Water, amines, strong bases, alcohols. Will cause some corrosion to copper alloys and aluminum.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: By high heat and fire: carbon monoxide (CO), oxides of nitrogen, traces of HCN, MDI vapors or aerosols.

HAZARDOUS POLYMERIZATION: May occur.

CONDITIONS TO AVOID (if polymerization may occur): Contact with moisture, other materials which react with isocyanates, or temperatures above 400° F (204° C).

11. TOXICOLOGICAL INFORMATION

4,4-Diphenylmethane Diisocyanate (MDI)

Acute Inhalation Toxicity

LC50: 0.49 mg/L, Dusts and mists, 4 hr (rat).

Acute Dermal Toxicity

LD50:>5,000 mg/kg (rabbit)

Skin Irritation

Rabbit, Draize test, slightly irritation

Sensitization

Dermal: sensitizer (guinea pig, Maximization Test (GPMT))

Inhalation: sensitizer (guinea pig)

Repeated Dose Toxicity

90 days, inhalation: NOAEL: 0.3 mg/m³, (rat, male/female, 18 hrs/day, 5 days/week)

Irritation to lungs and nasal cavity.

Mutagenicity

Genetic Toxicity in Vitro:

Ames: (salmonella typhimurium, Metabolic Activation: with/without)
Positive and negative results were reported. The use of certain solvents which rapidly hydrolyze diisocyanates is suspected of producing the positive mutagenicity results.
Genetic Toxicity in Vivo:
Micronucleus Assay: negative(mouse)

Carcinogenicity

Rat, female, inhalation, 2 years, 17hrs/day, 5 days/week
Results: negative

Diethyl Phthalate:

Acute oral Toxicity: LD50 Rat: >25,000 mg/kg
Acute inhalation Toxicity: LC50 Rat: (>) 4,000 mg/m³
Acute dermal toxicity: LD50 Rabbit: 25,000 mg/kg

12. ECOLOGICAL INFORMATION

Ecological Data for 4,4'-Diphenylmethane Diisocyanate (MDI)

Acute and Prolonged Toxicity to fish

LC50:>1000mg/l fish , 96 hrs

Acute Toxicity to Aquatic Invertebrates

EC50:>1000mg/l (Water flea (Daphnia magna), 48 hrs)

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Waste must be disposed of in accordance with federal, state, and local environmental control regulations. Incineration is the preferred method.

EMPTY CONTAINER PRECAUTIONS: Empty containers must be handled with care due to product residue. Decontaminate containers prior to disposal. Acceptable neutralizing solutions (i.e. decontamination solutions) are:

80% water + 20% non-ionic surfactant such as Dow/Union Carbide Tergitol TMN-10 (or other non-ionic surfactant which is liquid & mixes well with water)

OR 90% water + 3-8% concentrated ammonia + 2-7% detergent.

Empty decontaminated containers should be crushed to prevent reuse. **Do not heat or cut empty container with electric or gas torch.** (See Sections 5-Fire & Explosion Hazard Data and Section 10-Stability and Reactivity). Vapors and gases may be highly toxic.

14. TRANSPORTATION INFORMATION

Land transport (DOT)

Non-regulated

Sea transport (IMDG)

Non-regulated

Air transport (ICAO/IATA)

Non-regulated

15. REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION STATUS: This product is considered hazardous as defined under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

RCRA STATUS: MDI is not listed as a hazardous waste. To the best of our knowledge, MDI does not meet the criteria of a hazardous waste if discarded in its purchased form. However, under RCRA, it is the responsibility of the user of products to determine, at the time of disposal, whether a product meets any of the criteria for a hazardous waste. This is because product uses, transformations, mixtures, processes, etc., may render the resulting material hazardous, under the criteria of ignitability, corrosivity, reactivity, and EP toxicity (40 CFR 261.20-24).

US INVENTORY (TSCA): The ingredients of this product are listed on the TSCA inventory or are not required to be listed on the TSCA inventory.

US. EPA CERCLA Hazardous Substances (40 CFR 302)

Components

4,4'-Diphenylmethane Diisocyanate CAS# 101-68-8 Reportable Quantity 5,000 lb

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA), TITLE III:

Sections 301-303 – Emergency Planning - Extremely Hazardous Substances:

None.

Section 304 – Emergency Release Notification – Reportable Substances:

None.

Section 311/312 – Community Right-to-Know Reporting Requirements - Emergency Hazard Categories:

ACUTE health hazard.

CHRONIC health hazard.

Section 313 – Toxic Chemical Notification & Release Inventory Reporting – Listed Substances:

4,4'-Diphenylmethane Diisocyanate (MDI) (CAS# 101-68-8)

Diocyl Phthalate CAS#117-81-7

CANADA

WHMIS(Canada) : WHMIS Class D-1A: Material causing immediate and serious toxic effects (very toxic).

: WHMIS Class D-2A: Material causing other toxic effects (very toxic).

: WHMIS Class D-2B: Material causing other toxic effects (toxic).

California Prospect 65: WARNING! Diocyl Phthalate CAS#117-81-7 is known to the State of California to cause birth defects or other reproductive harm.

16. OTHER INFORMATION

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Centimark Corporation. The data on this sheet relates only to the specific material designated herein. Centimark Corporation assumes no legal responsibility for use or reliance upon these data.

PREPARED BY: Technical Service.

ACGIH=American Conference of Governmental Industrial Hygienists.

TLV=Threshold Limit Value.

OSHA=Occupational Safety and Health Administration.

NIOSH=National Institute for Occupational Safety and Health.

TWA=8-hour Time Weighted Average.

STEL=Short Term Exposure Limit.

NE=None Established.

F=Fahrenheit.

C=Celsius or Centigrade.

PMCC=Pensky Martins Closed Cup.

TCC=Tag Closed Cup.

TOC=Tag Open Cup.

PPM=parts per million.

MG/M3=Milligrams per cubic meter.

LB/GL=pounds per gallon.

N/A=Not Applicable.

NF=Not Found.

NL=None Listed.

HMIS=Hazardous Materials Identification System provided by the American Coatings Association (ACA). Hazards are identified by H=Health, *=chronic,

F=Fire, R=Reactivity, P=personal protection needed. Ratings are 1-4 with the higher the number the greater the hazard. For complete description please contact the ACA.

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1. PRODUCT IDENTIFICATION

PRODUCT NAME: CM5831-PE85 QuestMark Flooring Flexible Control Joint Sealer "B"

2. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS NUMBER	%	EXPOSURE LIMITS	
			OSHA PEL	ACGIH TLV
DIPROPYLENE GLYCOL	25265-71-8	0%-5%	Not Established	Not Established

3. HAZARD IDENTIFICATION

WARNING!

COLOR: Characteristic. *FORM:* Liquid. *ODOR:* Slight

Harmful by inhalation, in contact with skin and if swallowed. Use cold water spray to cool fire-exposed containers to minimize the risk of rupture. Irritating gases/fumes may be given off during burning or thermal decomposition.

POTENTIAL HEALTH EFFECTS

EYE: Causes irritation with symptoms of reddening, tearing, stinging, and swelling. May cause temporary corneal injury. Chronic exposure to prolonged vapor contact may cause conjunctivitis.

SKIN: Causes irritation with symptoms of reddening, itching, and swelling. Chronic exposure may cause Dermatitis.

INGESTION: May be harmful if swallowed. May cause abdominal discomfort, nausea, vomiting and diarrhea. Aspiration into lungs may occur during ingestion or vomiting, resulting in lung injury.

INHALATION: At ambient temperatures, prolonged exposure may develop sore throat. At elevated temperatures or by aerosol spray, the inhalation risk is increased. Symptoms include difficulty in breathing, and respiratory irritation.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Abrasions or cuts on the skin will lead to increased absorption through the skin.

CARCINOGENICITY

NTP CARCINOGEN-No

IARC MONOGRAPHS-No

OSHA CARCINOGEN-No

TERATOLOGY (BIRTH DEFECT) INFORMATION: Information not available.

REPRODUCTION INFORMATION: Information not available.

EINECS: EUROPEAN SAFETY AND RISK PHRASES: S36/37/39: Wear suitable protective clothing, gloves and eye/face protection. *R20/21/22:* Harmful by inhalation, in contact with skin and if swallowed.

*HMIS CODES: H F R P = 1*10G*

4. FIRST AID MEASURES

INHALATION- Move to an area free from risk of further exposure. Get medical attention immediately. Administer oxygen or artificial respiration as needed. Asthmatic-type symptoms may develop and may be immediate or delayed up to several hours. Extreme asthmatic reaction can be life threatening.

SKIN- Was affected areas thoroughly with soap and water. If skin irritation persists seek medical attention.

EYE- Eye Contact: In case of contact, immediately flush eyes with plenty of water for 15 minutes. Use lukewarm water if possible. Use fingers to ensure that eyelids are separated and that the eye is being irrigated. Get medical attention.

INGESTION- DO NOT INDUCE VOMITING. Wash mouth out with water. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Consult physician.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

FLASH POINT: 250 F METHOD: TOC

FLAMMABLE LIMITS:

LOWER FLAMMABLE LIMIT: 2.2%

UPPER FLAMMABLE LIMIT: 0%

AUTOIGNITION TEMPERATURE: APROX 800 F

HAZARDOUS COMBUSTION PRODUCTS: Carbon Dioxide (CO₂), Carbon Monoxide (CO), Oxides of Nitrogen (NO_x), Dense black smoke, other undetermined compounds.

EXTINGUISHING MEDIA: use dry chemical foam, carbon dioxide, water fog or fine spry. Do not use direct water spray as it will spread the fire.

FIREFIGHTING INSTRUCTIONS: Use positive pressure, self contained breathing apparatus (SCBA) and protective fire fighting clothing.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL:

Eliminate ignition sources. Wear appropriate personal protection during cleanup, such as impervious gloves, boots, and coveralls. Material can cause slippery conditions. Dike or dam spilled material and control further spillage, if possible. Cover spill with inert material (e.g. dry sand or earth, silica gel, acid binder, universal binder, sawdust). Collect and place in appropriately marked sealable containers for disposal. Wash spill area with soap and water.

LARGE SPILL: Major Spill or Leak (Standing Liquid): Released material may be pumped into closed, but not sealed, metal container for disposal. Process can generate heat. Large Spill and Leak Procedures: Evacuate non-emergency personnel. Isolate the area and prevent access. Remove ignition sources. Notify management. Put on protective equipment. Control source of the leak. Ventilate. Contain the spill to prevent spread into drains, sewers, water supplies, or soil.

7. HANDLING & STORAGE

PRECAUTIONS:

Keep product below 140F(60C). Handle in accordance with good industrial hygiene and safety practices. Wash thoroughly after handling. Keep container closed when not in use. Material is hygroscopic and may absorb small amounts of atmospheric moisture. Avoid breathing of vapor or mist.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

DIPROPYLENE GLYCOL 25265-71-8 0%-5%

ENGINEERING CONTROLS: Heat only in areas with appropriate exhaust ventilation. Provide appropriate exhaust ventilation at machinery to control levels of exposure.

RESPIRATORY PROTECTION: None required under normal use: Use NIOSH approved air supplied respirator during die cleaning, high temperature processing, air-spray environment or when thermal decomposition is suspected. Formaldehyde generation is possible if temperatures exceed 300F.

SKIN PROTECTION: Permeation-resistant gloves such as Butyl rubber gloves, Nitrile rubber gloves and Neoprene gloves should be used to protect the hands from contacting the product.

EYE PROTECTION: Safety glasses with side shields or chemical goggles should be worn

9. PHYSICAL / CHEMICAL PROPERTIES

APPEARANCE (physical form, color, texture, etc.)	Liquid at room temperature
MELTING POINT:	Not available
BOILING POINT:	450 F
VAPOR PRESSURE (mm Hg):	.0170 F
VAPOR DENSITY (Air = 1)	Heavier than air
SPECIFIC GRAVITY (H ₂ O = 1):	1.034

10. STABILITY & REACTIVITY

CHEMICAL STABILITY (CONDITIONS TO AVOID): Stable

INCOMPATIBILITY: Avoid oxidizing agents, strong acids, and strong bases.

Product reacts exothermally with isocyanates.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Dioxide (CO₂), Carbon Monoxide (CO), Oxides of Nitrogen (NO_x), Dense black smoke, other undetermined compounds.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

NOTE: NOT MEANT TO BE ALL-INCLUSIVE.

Toxicity Data for Polymer: Acute oral toxicity: LD50:>1,000 mg/kg (mouse. LD50:1,800 mg/kg (rat).

12. ECOLOGICAL INFORMATION

NOTE: NOT MEANT TO BE ALL-INCLUSIVE.

. Polyether triol: Fish 96hr. LC50: >100mg/l, based on available data and comparison to similar compounds. Does not bioaccumulate.

13. DISPOSAL CONSIDERATIONS

This product should not be released into the environment. The product should not be allowed to enter drains, water courses or the soil. Recycling is the preferred method for disposing of material. Otherwise, follow all applicable state, federal and local regulations in waste classification, transportation and disposal. It is the responsibility of the waste generator to do this.

14. TRANSPORTATION INFORMATION

LAND TRANSPORT – DOT
NOT REGULATED

DOT-Air Transport- ICAO/IATA
NOT REGULATED

DOT- Sea Transport- IMDG
NOT REGULATED

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

OSHA: This product is classified as a hazardous material under the criteria outlined in the OSHA Hazard Communication Standard (HCS) (29CFR1910.1200)

TSCA (Toxic Substances Control Act): All ingredients are on the TSCA Chemical Substance Inventory.

CERCLA: SARA HAZARD CATEGORY: This product has been reviewed according to the EPA Hazard Categories promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories: Acute Health Hazard, Chronic Health Hazard.

COMPONENTS:

DIPROPYLENE GLYCOL 26265-71-8 0%-5%

SECTION 313: *** No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

INTERNATIONAL REGULATIONS:

CANADIAN WHMIS: WHMIS classification depends on hazard and flash point. If sufficient hazard and flash point are not present, it is not given a classification.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA): CEPA/Canadian Domestic Substances List (DSL): The substances(s) in this product is/are on the Canadian Domestic Substances List (CEPA DSL). This product has been classified in accordance with the hazard criteria of the CPR (Controlled Products Regulations) and this MSDS contains all the information required by the CPR.

EINECS: EUROPEAN SAFETY AND RISK PHRASES: Information not available.

STATE REGULATIONS:

Regulations/Legislation that apply to this product:

Massachusetts Right-to-Know

Pennsylvania Right-to-Know

New Jersey Right-to-Know

CALIFORNIA PROP 65: WARNING: To the best of our knowledge, this product does not contain any of the listed chemicals, which the State of California has found to cause cancer, birth defects or other reproductive harm.

VOLATILE ORGANIC COMPOUNDS: 0.0 lb/gal

16. OTHER INFORMATION

WARNING! This product is intended to be used as a two-component (2K) system. The mixing of these two components (part A and part B) will have hazards associated with both part A and part B. Refer to the MSDS of each for complete hazard information when working with the mixture. ARTICLE: 29CFR 1910.1200 (b)(6)(iv) exempts "Articles" from the hazardous communication standard and an MSDS is not required. "Article" means a manufactured item: (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which does not release, or otherwise result in exposure to, a hazardous chemical under normal conditions of use.

HMIS CODES: H F R P =1*10G

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