

# Safety Data Sheet



## 1. Product and Company Identification

Product Name: **ML789B Part B**  
Material Uses: matching layer  
(M)SDS#: MI789B-20241023  
Validation Date: October 23, 2024  
Supplier/Manufacturer: Specialty Polymers & Services, Inc. (SP&S, Inc.)  
27822 Fremont Court  
Valencia, California (CA) 91355, U.S.A.  
Non-emergency phone number: (661) 294-1790 (7AM – 5PM PST)  
E-mail: msds@spolymers.com

In case of emergency: Chemtrec (800) 424-9300 or (703) 527-3887

## 2. Hazards Identification

### GHS CLASSIFICATION OF SUBSTANCE OR MIXTURE:

Skin sensitization: Category 1, H317

### GHS LABEL ELEMENTS:

#### HAZARD SYMBOLS:



SIGNAL WORDS: Warning!

#### HAZARD STATEMENTS:

H317 May cause an allergic skin reaction.

### PRECAUTIONARY STATEMENTS:

**PREVENTION:** P261 Avoid breathing dust/fume/mist/vapor/spray  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves, clothing, and eye/face protection.

**RESPONSE:** P303+P361+P634+P353+P352 IF ON SKIN (or hair): Take off immediately all contaminated clothing and wash before reuse. Rinse skin with water/shower. Wash with plenty of soap and water.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

**STORAGE:** None

**DISPOSAL:** P501 Dispose of contents and containers in accordance with local, regional and international regulations.

Precautionary statements are listed according to the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS) – Annex III

See toxicological information (section 11)

General Information: Read entire MSDS for a more thorough evaluation of the hazards

## 3. Composition / Information on Ingredients

Name	CAS Number	%
Natural vegetable oil rich in triglyceride ester of fatty acids	8001-79-4	45 – 65
4-Morpholinecarboxaldehyde	4394-85-8	< 0.5

Amounts specified are typical and do not represent a specification. Remaining components are proprietary, non-hazardous, and/or present at amounts below reportable limits.

#### 4. First Aid Measures

Eye Contact:	Check for and remove any contact lenses. Immediately flush eyes for at least 15 minutes with running water. Hold eyelids apart to ensure rinsing of the entire eye surface and lids with water. Get immediate medical attention.
Skin Contact:	In case of contact, wash affected areas with plenty of water, and soap, if available, for several minutes. Remove and clean contaminated clothing and shoes before re-use. Get medical attention if irritation occurs.
Inhalation:	Move exposed person to fresh air. Get medical attention if irritation occurs. If not breathing, give artificial respiration or oxygen. If breathing is difficult, transport to medical care and, if available, give supplemental oxygen. Loosen tight clothing such as a collar, tie, belt, or waistband. Get immediate medical attention.
Ingestion:	Wash out mouth with water. If swallowed dilute by giving two (2) glasses water to drink. Do not induce vomiting until direct to do so by medical personnel. Prevent aspiration of vomit. Turn victim's head to the side. Never give anything by mouth to an unconscious person. Get immediate medical attention.
Note to physician:	No specific treatment. Treat symptomatically. Call poison control center if large quantities were ingested.

#### 5. Fire-Fighting Measures

Flash point:	>93°C (>199.4°F) closed cup
Hazardous Thermal Decomposition Products:	Decomposition products may include the following materials: carbon dioxide, carbon monoxide, other oxides, alpha-ethyl acrolein, formaldehyde, and phenolics. During a fire, smoke may contain particles of the original material in addition to combustion. When exposed to high temperatures over a long period of time, formulations of outgassing flammable decomposition products may occur. Chlorine and fluorine containing gases may be produced.
Extinguishing Media:	Carbon dioxide, foam, dry chemical, water spray as suitable for the surrounding fire. Do not use high volume water jet on the fire as this may spread the area of the fire.
Special Exposure Hazards:	Promptly isolate the scene by removing all persons from the vicinity of the fire. No actions shall be taken involving any personal risk or without suitable training. Containers exposed to excessive heat may rupture.
Special Protective equipment for fire-fighters:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Prevent fire-fighting waters from entering sewer or waterways.

#### 6. Accidental Release Measures

Personal Precautions:	No actions shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering area. Do not touch or walk through spilled material. Avoid contact with skin, eyes and clothing. Avoid breathing vapor or mist and provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
Environmental Precautions:	Avoid dispersal of spilled material and runoff that leads to contact with soil, waterways, drains, and sewers. Inform the relevant authorities if the product has caused environmental pollution.
Methods of Clean Up:	Stop leak if without risk. Move containers from spill area. Approach spill from up wind if possible. Prevent spill from entering sewers, rivers and other water courses, basements, or confined areas. Wash into effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material (e.g. sand, earth, vermiculite, or diatomaceous earth) and place in container for disposal according to local regulations. Dispose of only using a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information.

#### 7. Handling and Storage

Handling:	Wear appropriate personal protective equipment (see Section 8) when handling. Eating, drinking, and smoking should be prohibited in areas where chemicals are handled, stored, or processed. Workers should wash hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Persons with a history of skin sensitization problems should not be employed in processes where this material is used. Keep in the original container or a suitable alternate made from a compatible material. Keep all containers tightly closed when not in use. Empty containers retain product residue and should be disposed of properly. Do not reuse empty containers for other purposes or to hold other materials.
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Storage: Store in accordance with local regulations. Store in original containers, at 25°C – 40°C. Keep away from incompatible materials (see Section 10) and food and drink. Keep all containers tightly closed when not in use and tightly re-seal after use. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## 8. Exposure Controls / Personal Protection

**Recommended Monitoring Procedures:** If this product contains ingredients with exposure limits, personal, workplace, atmospheric, or biological monitoring may be required to determine the effectiveness of the ventilation system or other control measures and/or to determine whether it is necessary to use respiratory protective equipment. Consider European Standard EN 689 or similar industry or governmental guidelines for appropriate methods for the assessment of exposure by inhalation to chemical agents and/or hazardous substances.

**Engineering measures:** No special ventilation requirements are necessary for this product. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation, or other engineering controls to keep worker exposure below the recommended or statutory limits

**Hygiene measures:** Wash hands, forearms, and face thoroughly after handling any chemical products, before eating, smoking, and using the lavatory and at the end of the work period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

### Personal Protection

**Respiratory:** A respiratory protection program in compliance with 29CFR1910.134, or other applicable regulatory standard must be followed whenever exposure limits may be exceeded. If engineering controls are not feasible, or if inadequate ventilation wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Hands:** Wear neoprene, nitrile rubber or other suitable impervious gloves; consider European Standard EN374 or similar industry or governmental guidelines. Consider the parameters specified by the glove manufacture and check gloves during use to ensure they are retaining their protective properties. Gloves selected must have a breakthrough rating appropriate for the work shift. If a risk assessment indicates that it is necessary, gloves should always be worn when handling chemical products.

**Eyes:** When a risk assessment indicates, safety eyewear complying with an approved standard, such as OSHA Standard 29CFR1910.133 or European Standard EN166, should be used to avoid exposure to liquid splashes, mists, or dusts. If contact is possible, at a minimum use chemical splash goggles. If significant splash hazard may occur, consider using a full-face shield.

**Skin:** Personal Protective equipment for the body should be selected based on the task being performed and the risks involved. Typical protective equipment includes non-absorbent lab coats, disposable protective sleeves, coats, or whole-body suits. Consider CFR1910.132 and CFR1910.136 for OSHA approved standards on protective clothing and footwear. Consider seeing a safety specialist to determine the appropriate level of protection for your task.

**Environmental Exposure Controls:** Emissions from ventilation or work processes should be checked to ensure they comply with the requirements of environmental regulations. In some cases, fume scrubbers, filters, or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9. Physical and Chemical Properties

Appearance:	Red or black liquid	Odor	Faint odor
Boiling Point:	Not determined	Freezing Point:	Not determined
Flash Point:	>140°C (>284°F) closed cup	pH:	Not determined
Auto-ignition Temperature:	Not determined	Flammable Limits:	Not determined
Vapor Pressure:	Not determined	Water Solubility:	Insoluble
Specific Gravity:	1.20	Vapor Density:	Not determined
Evaporation Rate:	<1 (butyl acetate =1)	VOC:	<20 g/ L (estimated)
Viscosity:	~2100 cP		

## 10. Stability and Reactivity

**Chemical Stability:** This product is stable, under normal conditions of storage and use, hazardous reactions will not occur.

Hazardous Polymerization: Under normal conditions of storage and use, hazardous polymerization will not occur.  
 Conditions to Avoid: High temperatures, heat, sparks, open flames and exposure to strong oxidizing agents, acids, bases, caustics, amines, ammonia, halogens, and isocyanates. The reaction of polyols and isocyanates generates heat.  
 Hazardous Decomposition: Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal Decomposition products may include the following materials: carbon dioxide, carbon monoxide, other oxides, alpha-ethyl acrolein, formaldehyde, and phenolics. During a fire, smoke may contain particles of the original material in addition to combustion. When exposed to high temperatures over a long period of time, formulations of outgassing flammable decomposition products may occur. Chlorine and fluorine containing gases may be produced.

**11. Toxicological Information**

Acute Toxicity

Product/Ingredient Name	Test	Endpoint	Species	Result
4-Morpholinecarboxaldehyde	Acute Oral Toxicity	LD50 Oral	Rat	>7,360 mg/kg
	OECD 402 Acute Dermal Toxicity	LD50 Dermal	Rabbit	>18,400 mg/kg

Irritation / Corrosion

Product/Ingredient Name	Test	Species	Result
No data available			

Sensitizer

Product/Ingredient Name	Test	Species	Result
4-Morpholinecarboxaldehyde	Skin sensitization	-	Causes sensitization

Mutagenicity

Product/Ingredient Name	Test	Result

Conclusion/ Summary: the weight of evidence does not support classification as a germ cell mutagen.

Carcinogenicity

No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, ACGIH, NTP or OSHA.

Reproductive Toxicity

Product/Ingredient Name	Test	Species	Maternal Toxicity	Fertility	Developmental Effects

Teratogenicity

Product/Ingredient Name	Test	Species	Results

Potential Acute Health Effects

Inhalation: At room temperature, exposure to vapor is minimal due to low volatility; vapor from heated material or mist may cause respiratory irritation and other effects.  
 Ingestion: May cause abdominal discomfort or diarrhea. May cause nausea and vomiting.  
 Skin Contact: May cause skin irritation. Prolonged skin contact is unlikely to result in absorption of harmful amounts. May cause an allergic skin reaction.  
 Eye Contact: May cause eye irritation.

Potential Chronic Health Effects

Product/Ingredient Name	Test	Endpoint	Species	Results
No data available	-	-	-	-

General: Once sensitized, an allergic reaction may occur when subsequently exposed to very low levels  
 Target Organs: No known significant effects or critical hazards  
 Carcinogenicity: No known significant effects or critical hazards  
 Mutagenicity: No known significant effects or critical hazards  
 Teratogenicity: No known significant effects or critical hazards  
 Developmental Effects: No known significant effects or critical hazards  
 Fertility Effects: No known significant effects or critical hazards

**12. Ecological Information**

Environmental Effects: This product is not classified as environmentally hazardous; however, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Aquatic Ecotoxicity

Product/Ingredient Name	Test	Endpoint	Exposure	Species	Result
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Persistence and Degradability

Product/Ingredient Name	Test	Period	Result
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Product/Ingredient Name	Aquatic half-life	Photolysis	Biodegradability
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Bioaccumulative potential

Product/Ingredient Name	Log P <sub>ow</sub>	BCF	Potential
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Other adverse effects: No known significant effects or critical hazards  
 Other information: BOD5: Not determined COD: Not Determined TOC: Not determined

**13. Disposal Consideration**

**Waste Disposal Method:** Disposal of these products, solutions, and by-products should at all times comply with the requirements of environmental and waste disposal legislation and any regional or local authority requirements. Dispose of surplus, non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed on untreated to the sewer system unless this is complaint with all applicable laws and regulations. Incineration by an approved and licensed contractor is the most common disposal method. Packaging materials that and absorbents containing the product can typically be landfilled or incinerated. Contact local authorities to determine the proper means of disposal in your area.

**14. Transport Information**

**DOT (US) Classification:** Not regulated for transportation purposes under 49CFR in non-bulk when transported by motor vehicle, rail car, or aircraft.

**TDG (Canadian) Classification:** Not regulated for transportation purposes when transported by road or rail.

**IATA:** Not regulated for transportation purposes when transported by aircraft.

**15. REGULATORY INFORMATION**

**US Federal Regulations:**

**Occupational Safety and Health Act (OSHA):** This product is a hazardous chemical under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**SARA Title III: Section 304 - CERCLA:** This product does not contain any chemicals regulated under Section 304 as extremely hazardous substance(s) for emergency release notification ("CERCLA" List).

**SARA Title III: Section 311/312 - Hazard Communication Standard (HCS):** Per the June 13, 2016, Federal Register notice, EPA harmonized the EPCRA 311/312 hazard categories with the 2012 OSHA hazard communication standard for classifying and labeling of chemicals (i.e. GHS). Please refer to section 2 of the SDS to identify the appropriate hazard categories for reporting purposes.

**SARA Title III: Section 313 Toxic Chemical List (TCL):** This product does not contain any toxic chemicals for routine annual Toxic Chemical Release Reporting under section 313 (40 CFR 372).

**TSCA Section 8(b) - Inventory Status:** All chemical(s) comprising this product are listed on the TSCA inventory.

**TSCA Section 12(b) - Export Notification:** This product does not contain any chemicals which are subject to Section 12(b) export notification.

**State Regulations:**

**California Proposition 65:** **⚠ WARNING:** This product contains chemicals, as trace impurities and not intentionally added, known to the State of California to cause Cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**International Regulations:**

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

**International Lists:**

Canadian Inventory (CEPA-DSL): all components are listed or exempt Korea Inventory (ECL): all components are listed or exempt

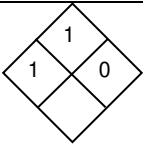
China Inventory (IECSC):

all components are listed or exempt

Philippines Inventory (PICCS):

all components are listed or exempt

**16. OTHER INFORMATION**

Hazardous Material Information System (HMIS) - USA			National Fire Protection Association (USA):	
Health	1			
Flammability	1			
Physical Hazards	0			
Personal Protection	X			

\*suggested minimum personal protection equipment. End user must determine appropriateness of these suggestions for their applications and usage conditions.

**Reason Issued:** update

**Prepared By:** Preston White

**Approved By:** Chris Meyer Title: Vice President

**NOTICE TO READER:** While the information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE.

IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF PRODUCTS FOR THE USER'S PARTICULAR PURPOSE(S).

THIS PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

The product(s) has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended.