



01/12/21

**SAFETY DATA SHEET**

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[According to OSHA Hazard Communication Standard (HCS) 29 CFR 1910.1200]

**SECTION 1. IDENTIFICATION**

**PRODUCT INFORMATION**

TRADE NAME : CROSSLINKER  
FORMULA : M-702R  
HMIS NUMBER : 1-1-0  
CHEMICAL NAME : ACRYLIC DISPERSION  
CHEMICAL FAMILY : ORGANIC COMPOUND  
PRODUCT USE : A PROTECTIVE AND/OR DECORATIVE FINISH OR ACCOMPANYING PRODUCT  
(reference label or product data sheet for more information).

NOT RECOMMENDED FOR: ANY OTHER USE NOT DETAILED ON PRODUCT DATA SHEET OR LABEL.

**SUPPLIER INFORMATION**

MANUFACTURED FOR :

Gemini Coatings  
2300 Holloway Drive  
El Reno, OK 73036  
800-262-5710

EMERGENCY PHONE :

24- Hour Emergency (Spill, Leak, Exposure or Accident):  
INFOTRAC 800-535-5053  
Outside USA, Call Collect 1-352-323-3500  
24- Hour Emergency HAZMAT Response and MSDS Help:  
EMI 800-510-8510

**SECTION 2. HAZARD(S) IDENTIFICATION**

**OSHA/HCS STATUS**

This material is considered hazardous by the OSHA Hazard Communication Standard  
(29 CFR 1910.1200)

HAZARD PICTOGRAMS:



HAZARD STATEMENTS:

**SECTION 2. HAZARD(S) IDENTIFICATION**

Hazardous Material	Health	1
Information System (U.S.A.)	Flammability	1
	Physical Hazard	0

- H227: Combustible liquid.
- H304: May be fatal if swallowed and enters airways.
- H302: Harmful if swallowed.
- H315: Causes skin irritation.
- H319: Causes serious eye irritation.

**PRECAUTIONARY STATEMENTS:**

**Prevention :**

- P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P264: Wash hands thoroughly after handling.
- P270: Do not eat, drink or smoke when using this product.
- P271: Use only outdoors or in a well-ventilated area.
- P280: Wear protective gloves/protective clothing/eye protection/face protection

**Response :**

- P370+P378: In case of fire; Use water spray, carbon dioxide, dry chemical or alcohol foam for extinction.
- P302+P352: IF ON SKIN: Wash with plenty of soap and water.
- P332+P313: If skin irritation occurs: Get medical advice/attention.
- P363: Wash contaminated clothing before reuse.
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P313: If eye irritation persists: Get medical advice/attention.
- P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P331: Do NOT induce vomiting.

**Storage :**

- P403+P235: Store in a well-ventilated place. Keep cool.
- P405: Store locked up.

**Supplemental**

label elements:                      Avoid contact with skin and clothing. Wash thoroughly after handling.

**Hazards not otherwise**

classified:                              Prolonged or repeated contact may dry skin and cause irritation.

**SECTION 2. HAZARD(S) IDENTIFICATION**

**SECTION 3. COMPOSITION, INFORMATION ON INGREDIENTS**

INGREDIENT DESCRIPTION	CAS NUMBER	PERCENT	
		BY WGT	BY WEIGHT
2-BUTOXYETHANOL	111-76-2	50.0	

"X" Indicates substance is a HAP, reportable under SARA III, Section 313, if 10,000 lbs of an item used per calendar year.  
 Any concentration shown as a range is to protect confidentiality or is due to batch variation.  
 There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

**SECTION 4. FIRST AID MEASURES**

**FIRST-AID INSTRUCTIONS**

- SKIN CONTACT Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- EYE CONTACT Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention.
- INHALATION Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- INGESTION Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

**MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND CHRONIC**

Potential acute health effects  
 Eye contact: No known significant effects or critical hazards.  
 Inhalation : No known significant effects or critical hazards.  
 Ingestion : No known significant effects or critical hazards.  
 Skin contact : No known significant effects or critical hazards.

Over-exposure signs/symptoms  
 Eye contact No specific data  
 Inhalation No specific data.  
 Ingestion No specific data.  
 Skin contact Adverse symptoms may include the following:  
 irritation  
 dryness  
 cracking

**SECTION 4. FIRST AID MEASURES**

RECOMMENDATIONS FOR IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

- Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments : No specific treatment.
- Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

**SECTION 5. FIRE-FIGHTING MEASURES**

FLASH POINT OVER 200 TCC N/R  
 LEL N/A  
 UEL N/A

EXTINGUISHING MEDIA: Foam, CO2, dry chemical, water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS:  
 The material will not support combustion unless the water has evaporated.

SPECIAL FIREFIGHTING PROCEDURES:  
 Water may be used to cool closed containers, to prevent pressure build up.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Container may burn or leak in heat of fire. Burning will produce toxic fumes. Burning will produce hazardous compounds including oxides of: carbon, nitrogen.

**ADVICE FOR FIREFIGHTERS:**

- Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- 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

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

**PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

- For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
- For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".
- Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP**

- Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via 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 and Section 13 for waste disposal.

**SECTION 7. HANDLING AND STORAGE**

**PRECAUTIONS FOR SAFE HANDLING**

Protective measures: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including incompatibilities : Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Store in original container, protected from direct sunlight.

**PRECAUTIONS TO BE TAKEN: KEEP FROM FREEZING.**

Protect drums against physical damage.  
Do not take internally. Wash hands thoroughly after handling.

**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**CONTROL PARAMETERS**

INGREDIENT DESCRIPTION	CAS NUMBER	EXPOSURE LIMITS
2-BUTOXYETHANOL	111-76-2	ACGIH: 20.00 PPM-TWA OSHA: 50.00 PPM

**EXPOSURE CONTROLS**

ENGINEERING CONTROLS:  
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location.

**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**PRECAUTIONS:**

**SKIN PROTECTION:**

Long sleeves and pants to avoid skin contact

**HAND PROTECTION:**

Gloves.

**EYE PROTECTION:**

Splash goggles/face shield.

**RESPIRATORY PROTECTION:**

Vapor respirator. A respirator protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever work place conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

**OTHER PROTECTIVE EQUIPMENT:**

Ensure that eyewash stations and safety showers are proximal to the work-station location.



**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**BASIC PHYSICAL AND CHEMICAL PROPERTIES**

FLASH POINT	OVER 200 TCC N/R	MELTING POINT:	N/A
LEL	:	EVAPORATION RATE:	N/A
UEL	: 10.60	FLAMMABILITY (solid, gas):	N/A
APPEARANCE	: CLEAR IN COLOR	PARTITION COEFFICIENT:	N/A
ODOR	: N/A	ODOR THRESHHOLD:	N/A
BOILING POINT	: 340 (deg F)	% SOLIDS (+/-2) WGT:	48.500
VAPOR PRESSURE	: (mmHg)	% SOLIDS (+/-2) VOL:	43.409
VAPOR DENSITY	: 4.10 (AIR = 1)	VOC (LB/GL) ACTUAL:	4.071
WATER SOLUBLE	: Y	VOC (g/L) ACTUAL:	487.706
RELATIVE DENSITY	: 8.143	VOC (LB/GL) COATING:	4.071
(WEIGHT/GALLON)		VOC (g/L) COATING:	487.706
PH (range)	: 8.0 TO 9.0		
SOLUBILITY	: PARTTIALY SOLUBLE IN HOT/COLD WATER		
AUTO IGNITION			
TEMPERATURE	: N/A		
DECOMPOSITION			
TEMPERATURE	: N/A		
VISCOSITY	: SEE PRODUCT DATA SHEET		

Density, %solids and %VOC analysis reference method 24  
 VOC IS LESS ANY FEDERALLY EXEMPT SOLVENT

**SECTION 10. STABILITY AND REACTIVITY**

**REACTIVITY:**

No specific test data related to reactivity available for this product or its ingredients.

**CHEMICAL STABILITY**

Stable.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

Under normal conditions of storage and use, hazardous reactions will not occur.

**INCOMPATIBILITY (MATERIALS TO AVOID) :**

No specific data

**HAZARDOUS POLYMERIZATION:**

Will not occur.

**HAZARDOUS POLYMERIZATION CONDITIONS TO AVOID:**

None known.

**SECTION 11. TOXICOLOGICAL INFORMATION**

INGREDIENT DESCRIPTION	CAS NUMBER	TOXICOLOGICAL DATA
2-BUTOXYETHANOL	111-76-2	LD50: Oral (Rat): 1,300 mg LC50: (RAT):3h >4.9mg/l LC50:Dermal Rat 2000mg/kg

**TARGET ORGANS:**  
 This product may cause eye, skin and respiratory tract irritation.

**EFFECTS OF EXCESSIVE OVEREXPOSURE:**

Intentionally and deliberately concentrating and inhaling the contents may be harmful. Wear an appropriate, properly fitted respirator (NIOSH/MSHA APPROVED) before and during application unless air monitoring demonstrates vapor/mist levels are below applicable limits.

**EFFECTS OF OVEREXPOSURE:**

- INHALATION Vapor or mist can cause headache, nausea, and irritation of the nose, throat, and lungs. Overexposure can have narcotic effect
- EYE CONTACT Slightly irritating to eyes.
- SKIN CONTACT Irritating to skin upon repeated or prolonged contact.

**PRIMARY ROUTES OF ENTRY:**  
 Dermal, Inhalation, Ingestion.

**CARCINOGENICITY:**

Substances have not been identified as a carcinogen or probable carcinogen by NTP, IARC, OSHA, EU, ACGIH or CPSC.

**SECTION 12. ECOLOGICAL INFORMATION**

**TOXICITY**

**ECO-TOXICITY:**

Persistence and degradability: Not available

**MOBILITY IN SOIL**

Soil/water partition

coefficient (KOC): Not available.

Other adverse effects : No known significant effects or critical hazards.

**ADDITIONAL INFORMATION**

**2-BUTOXYETHANOL**

**Toxicity**

Fish

Product: LC-50 (Oncorhynchus mykiss, 96 h): 1,474 mg/l

Aquatic Invertebrates  
 Product: EC-50 (Water Flea, 48 h): 1,550 mg/l

Chronic Toxicity

Fish

Product: NOEC (Zebra Fish, 21 d): > 100 mg/l

Aquatic Invertebrates  
 Product: NOEC (daphnid, 21 d): 100 mg/l

Toxicity to Aquatic Plants

Product: EC-50 (Algae (Pseudokirchneriella subcapitata), 72 h): 1,840 mg/l

Persistence and Degradability

Biodegradation

Product: 90.4 % (28 d) Readily biodegradable

Biological Oxygen Demand:

Product: No data available.

Specified substance(s)  
 2-butoxyethanol No data available.

Chemical Oxygen Demand:

Product: No data available.

Specified substance(s)  
 2-butoxyethanol No data available.

BOD/COD Ratio

Product: No data available.

Specified substance(s)  
 2-butoxyethanol No data available.

Bioaccumulative Potential

Product: Potential to bioaccumulate is low.

Mobility in Soil:

Expected to partition to water.

Results of PBT and vPvB assessment:

Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria Not fulfilling vPvB (very persistent, very bioaccumulative) criteria.

Other Adverse Effects:

No data available.



**SECTION 13. DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL METHOD: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way.

**SECTION 14. TRANSPORT INFORMATION**

	DOT Not regul.	TDG Not regul.	Mexico Not regul.	ADR/RID Not regul.	IMDG Not regul.	IATA Not regul.
UN NUMBER	-	-	-	-	-	-
UN PROPER SHIPPING NAME						
TRANSPORT HAZARD CLASS	-	-	-	-	-	-
PACKAGING GROUP	-	-	-	-	-	-
SPECIAL PRECAUTIONS	No	No	No	No	No	No

**SECTION 15. REGULATORY INFORMATION**

TSCA : LISTED  
 DSL/NDSL: LISTED

**SECTION 313 SUPPLIER NOTIFICATION:**

This product contains the following chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

CHEMICAL NAME	CAS NUMBER	PERCENT BY WEIGHT
NONE		

**CALIFORNIA PROP. 65:**

This product contains the following ingredients for which the State of California has found to cause cancer, which would require a warning under the statute:

CHEMICAL NAME	CAS NUMBER
None Known	

SECTION 16. OTHER INFORMATION

OTHER PRECAUTIONS

PRECAUTIONS TO BE TAKEN: KEEP FROM FREEZING.  
Protect drums against physical damage.  
Do not take internally. Wash hands thoroughly after handling.

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