

Material Safety Data Sheet



Revision Date: 1/25/2008

Issue Date: 3/26/2008

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Marathon 262 Crosslinker
Company Address:
Torginol, Inc.
P.O Box 102
710 Forest Avenue
Sheboygan Falls, WI 53085

Product Type: Coating
Contact Information:
Telephone: (800) 558-7596
Emergency Telephone: (800) 688-4005
Fax: (920) 467-8674
Internet: www.torginol.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical State: Liquid
Color: Colorless to Light Yellow
Odor: Solvent

HMIS:
HEALTH: 3
FLAMMABILITY: 1
PHYSICAL HAZARD: 0
Personal Protection: See MSDS Section 8

WARNING: MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION

Relevant Routes of Exposure: Skin, Inhalation, Eyes

Potential Health Effects

Inhalation: Severe respiratory tract irritation. May cause central nervous system effects with nausea, dizziness, and headache.
Skin Contact: May cause skin irritation.
Eye Contact: Contact with liquid may produce severe eye irritation, causing severe conjunctiva irritation, corneal defects and possibly permanent loss of vision.
Ingestion: Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Existing conditions aggravated by exposure: Eye, skin and respiratory disorders.

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

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Components	CAS NUMBER	%
N-Methyl-2-pyrrolidone	872-50-4	30-60
pentaerythritol tris(3-aziridin-1-ylproprionate)	57116-45-7	30-60

3. HAZARDOUS IDENTIFICATION

Inhalation: Move to fresh air. If not breathing, give artificial respiration. Get medical attention immediately.

Skin Contact: Immediately wash skin thoroughly with soap and water Remove contaminated clothing and footwear. Get immediate medical attention.

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Eye Contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get immediate medical attention.

Ingestion: DO NOT induce vomiting unless directed to do so by a medical personnel. Never give anything by mouth to an unconscious person. Get immediate medical attention.

5. FIRE-FIGHTING MEASURES

Flash Point: 93.4 °C (200.12 °F)

Autoignition Temperature: Not Determined

Flammable/Explosive limits-lower %: Not Determined

Flammable/Explosive limits-upper %: Not Determined

Extinguishing media: Use NFPA Class B fire extinguishers (carbon dioxide, all purpose dry chemical or alcohol foam) designed to extinguish flammable liquid fires. Polymer foam is preferred for large fires.

Special Fire-Fighting Procedures: Firefighters should wear self-contained breathing apparatus. Water may be ineffective, but may be used to cool exposed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat. If water is used, fog nozzles are preferable.

Unusual Fire or Explosion Hazards: During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

Hazardous Combustion Products: Smoke. Oxides of carbon.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Do not allow product to enter sewer or waterways.

Clean-Up Methods: Keep unnecessary personnel away. Ensure adequate ventilation. Wear appropriate protective equipment and clothing during clean-up. Dispose of contaminated material as waste according to item 13.

7. HANDLING AND STORAGE

Handling: Avoid skin and eye contact. Wear suitable protective clothing, safety glasses and gloves.

Storage: No not handle or store near an open flame, heat or other source of ignition.

For information on product shelf life contact Torginol Customer Service at (800) 558-7596

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
N-Methyl-2-pyrrolidone	None	None	10 ppm (40 mg/mg3) TWA (SKIN)	None
pentaerythritol tris (3-aziridin-1-ylpropionate)	None	None	None	None

Engineering Controls: Ensure adequate ventilation, especially in confined areas.

Respiratory Protection: Use a NIOSH approved respirator if there is potential to exceed exposure limit(s). Observe OSHA regulations for respiratory use (29 CFR 1910.134).

Eye/Face Protection: Wear safety glasses meeting the specifications of ANSI Z87.1 where no contact with the eye is anticipated. Chemical safety goggles meeting the specifications of ANSI Z87.1 should be worn whenever there is a possibility of splashing or other contact with the eyes.

Skin Protection: Use impermeable gloves and protective clothing as necessary to prevent skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid
Color: Colorless to light yellow
Odor: Solvent
Odor Threshold: Not available
pH: Not applicable
Vapor Pressure: Not determined
Boiling Point/Range: 203 °C (397.4 °F)
Melting Point/Range: Not applicable
Specific Gravity: 1.1 (Water = 1)
Vapor Density: Heavier than air
Flash Point: 93.4 °C (200.12 °F)
Flammable/Explosive Limits-lower: Not determined
Flammable/Explosive Limits-upper: Not determined
Autoignition Temperature: Not determined
Evaporation Rate: Slower than diethyl ether
Solubility in Water: Insoluble
Partition Coefficient (n-octanol/water): Not determined
VOC Content: 53%
Viscosity: 10 – 35 cP

10. STABILITY AND REACTIVITY

Stability: Stable.
Hazardous Reactions: Will not occur.
Hazardous Decomposition Products: Smoke. Oxides of carbon.
Incompatibility: None.
Conditions to Avoid: Heat, fumes, sparks and other sources of ignition.

11. TOXICOLOGICAL INFORMATION

Carcinogen Status

Hazardous Components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
N-Methyl-2-pyrrolidone	No	No	No
pentaerythritol tris(3-aziridin-1-ylpropionate)	No	No	No

Literature Referenced Target Organ & Other Health Effects

Hazardous Components	Health Effects / Target Organs
N-Methyl-2-pyrrolidone	Blood, Bone Marrow, Central Nervous System, Immune System, Irritant, Lung
pentaerythritol tris(3-aziridin-1-ylpropionate)	No Data

12. ECOLOGICAL INFORMATION

Ecological Information: Not Available

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended Method of Disposal: Legal disposition of wastes is the responsibility of the owner/generator of the waste. Applicable federal, state and/or local regulations must be followed during the treatment, storage, or disposal of waste containing this product.

EPA Hazardous Waste Number: Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

U.S Department of Transportation Ground (49 CFR):

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

International Air Transportation (ICAO/IATA)

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

Water Transportation (IMO/IMDG):

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

15. REGULATORY INFORMATION

United States Regulatory Information:

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

TSCA 12 (b) Export Notification: None above reporting de minimus

CERCLA/SARA Section 302 EHS: None above reporting de minimus

CERCLA/SARA Section 311/312: Immediate Health

CERCLA/SARA 313: This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372).
N-Methyl-2-pyrrolidone (CAS#872-50-4).

California Proposition 65: This product contains a chemical known in the state of California to cause cancer. This product contains a chemical known to the state of California to cause cancer and birth defects or other reproductive harm.

Canada Regulatory Information:

CEPA DSL/NDSL Status: Contains one or more components listed on the Non-Domestic Substances List. All other components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities. Please contact Regulatory Affairs for additional details.

WHMIS Hazard Class: D.2.B

