

Material Safety Data Sheet

Section 1. Pi	roduct and Company Identification			
Product Name	BIS	Product Code	10897	
Manufacturer	EMD Chemicals Inc. Effective Date		ate 10/19/2005	
	P.O. Box 70 480 Democrat Road Gibbstown, NJ 08027 Prior to January 1, 2003 EMD Chemicals Inc. was EM Industries, Inc. or EM Science, Division of EM Industries, Inc.	Print Date	12/15/20	005
For More Information Call 856-423-6300 Technical Service Monday-Friday: 8:00 AM - 5:00 PM		In Case of Emergency Call 800-424-9300 CHEMTREC (USA) 613-996-6666 CANUTEC (Canada) 24 Hours/Day: 7 Days/Week		
				Synonym
Material Uses	Analytical reagent.			
Chemical Family	Amide.			
Section 2. C	omposition and Information on Ingredients			
Component		CA	S #	% by Weight
N,N'-Methylenebisacrylamide		11()-26-9	100

Section 3. Hazards Identification		
Physical State and Appearance	Solid. (Crystalline granules solid.)	
Emergency Overview	DANGER! POISON! HARMFUL IF INHALED, ABSORBED THROUGH SKIN OR SWALLOWED. CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. CONTAINS MATERIAL WHICH MAY CAUSE DAMAGE TO THE FOLLOWING ORGANS: NERVOUS SYSTEM.	

Routes of Entry	Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.
Potential Acute He	alth Effects
	Eyes Hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching.
	Skin Hazardous in case of skin contact (permeator, irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.
In	halation Hazardous in case of inhalation (lung irritant).
I	ngestion Hazardous in case of ingestion.

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Potential Chronic Health Effects

Carcinogenic Effects This material is not known to cause cancer in animals or humans.

Additional information See Toxicological Information (section 11)

Medical Conditions Aggravated by Overexposure: Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Section 4. First Ai	id Measures
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Ingestion	If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
Section 5. Fire Fig	hting Measures
Flammability of the Product	May be combustible at high temperature.
Auto-ignition Temperature	Not available.
Flash Points	Not available.
Flammable Limits	Not available.
Products of Combustion	These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2).
Fire Hazards in Presence of Various Substances	Not available.
Explosion Hazards in	Risks of explosion of the product in presence of static discharge: No.
Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: No.
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
Protective Clothing (Fire)	Be sure to use an approved/certified respirator or equivalent.
Special Remarks on Fire Hazards	Not available.
Special Remarks on Explosion Hazards	Not available.

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Section 6. Accidental Release Measures

Use appropriate tools to put the spilled solid in a convenient waste disposal container. **Small Spill and Leak**

Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use Large Spill and Leak water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if

needed. Eliminate all ignition sources. Call for assistance on disposal.

No specific spill kit required for this product. **Spill Kit Information**

Section 7. Handling and Storage

Handling Avoid contact with eyes, skin and clothing. Do not ingest. Avoid breathing dust. Keep container

Storage Keep container in a cool, well-ventilated area.

Section 8. Exposure Controls/Personal Protection

Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or

mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection

Eyes Splash goggles.

Body Lab coat.

Respiratory Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear

appropriate respirator when ventilation is inadequate.

Hands Gloves.

Feet Not applicable.

Protective Clothing (Pictograms)



Personal Protection in Case of a Large Spill

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Product Name Exposure Limits

N,N'-Methylenebisacrylamide Not available.

Section 9. Physical and Chemical Properties

Odor	Not available.
Color	White.
Physical State and Appearance	Solid. (Crystalline granules solid.)
Molecular Weight	154.19 g/mole
Molecular Formula	C7-H10-N2-O2
рН	Not available.

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Boiling/Condensation Point	Not available.	
Melting/Freezing Point	>300.06°C (572.1°F)	
Specific Gravity	Not available.	
Vapor Pressure	Not available.	
Vapor Density	5.31 (Air = 1)	
Odor Threshold	Not available.	
Evaporation Rate	Not available.	
LogKow	Not available.	
Solubility	Soluble in water.	

Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.

Conditions of Instability Not available.

Incompatibility with Various Substances

Reactive with oxidizing agents.

Rem/Incompatibility Not available.

Hazardous Decomposition Not available.

Products

Hazardous Polymerization Will not occur.

Section 11. Toxicological Information	Section 1	. Toxicological Info	rmation
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RTECS Number:	N,N'-Methylenebisacrylamide	AS3678000
Toxicity	Acute oral toxicity (LD ₅₀): 380 mg/kg [Mouse].	
Chronic Effects on Humans	Repeated or prolonged exposure to the substan	nce can produce nervous system damage.
Acute Effects on Humans	watering, and itching. Hazardous in case of skin	ammation of the eye is characterized by redness, contact (permeator, irritant). Skin inflammation is cocasionally, blistering. Hazardous in case of estion.
Synergetic Products (Toxicologically)	Not available.	
Irritancy	<u>Draize Test</u> : Not available.	

Sensitization Not available.

Carcinogenic Effects This material is not known to cause cancer in animals or humans.

Toxicity to Reproductive System

Tests on laboratory animals for reproductive effects are cited in Registry of Toxic Effects on Chemical Substances (RTECS).

Teratogenic Effects Not available.

Mutagenic Effects

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Tests on laboratory animals for mutagenic effects are cited in Registry of Toxic Effects of Chemical Substances (RTECS).

Section 12. Ecological Information

Ecotoxicity Not available.

BOD5 and COD Not available.

Toxicity of the Products of The products of degradation are less toxic than the product itself.

Biodegradation

Section 13. Disposal Considerations

EPA Waste Number U007

Treatment Specified Technology - Thermal destruction. Contact your local permitted waste disposal

(TSD) for permissible treatment sites. Always contact a permitted waste disposal (TSD) to

assure compliance with all current local, state, and Federal Regulations.

Section 14. Transport Information

DOT Classification Not available.

TDG Classification Not available.

IMO/IMDG

Classification

Classification

Not available.

ICAO/IATA

Not available.

Section 15. Regulatory Information

U.S. Federal Regulations TSCA 8(b) inventory: N,N'-Methylenebisacrylamide

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found. SARA 302/304/311/312 hazardous chemicals: N,N'-Methylenebisacrylamide SARA 311/312 MSDS distribution - chemical inventory - hazard identification:

N,N'-Methylenebisacrylamide: Immediate (Acute) Health Hazard, Delayed (Chronic) Health

Hazard

SARA 313 toxic chemical notification and release reporting: No products were found.

Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found.

Clean air act (CAA) 112 accidental release prevention: No products were found.

Clean air act (CAA) 112 regulated flammable substances: No products were found.

Clean air act (CAA) 112 regulated toxic substances: No products were found.

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

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

CEPA DSL: N,N'-Methylenebisacrylamide

This product has been classifed in accordance with the hazard criteria of the Controlled Product

Regulations and the MSDS contains all required information.

International Regulations

EINECS N,N'-Methylenebisacrylamide 203-750-9

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DSCL (EEC)	R22- Harmful if swallowed. R37/38- Irritating to respiratory system and skin. R41- Risk of serious damage to eyes.	
International Lists	Australia (NICNAS): N,N'-Methylenebisacrylamide	
	China: N,N'-Methylenebisacrylamide	
	Japan (MITI): N,N'-Methylenebisacrylamide	
	Korea (TCCL): N,N'-Methylenebisacrylamide	
	Philippines (RA6969): N,N'-Methylenebisacrylamide China: N,N'-Methylenebisacrylamide	
State Regulations	No products were found.	
	California prop. 65: No products were found.	

Section 16. Other Information

National Fire Protection Association (U.S.A.)



Reactivity

Specific Hazard

Changed Since Last Revision



Notice to Reader

The statements contained herein are based upon technical data that EMD Chemicals Inc. believes to be reliable, are offered for information purposes only and as a guide to the appropriate precautionary and emergency handling of the material by a properly trained person having the necessary technical skills. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use, storage and disposal of these materials and the safety and health of employees and customers and the protection of the environment. EMD CHEMICALS INC. MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE, WITH RESPECT TO THE INFORMATION HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS.