



Material Safety Data Sheet

Section 1. Product and Company Identification

Product Name	Harleco® Form-X™ Neutralisant de Formaline	Product Code	65523
Manufacturer	EMD Chemicals Inc. 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.	Effective Date	12/14/2004
		Print Date	12/22/2004

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 None.

Material Uses Laboratory Reagent

Chemical Family Inorganic salt

Section 2. Composition and Information on Ingredients

Component	CAS #	% by Weight
Sodium Metabisulfite	7681-57-4	98
Sodium Bisulfite	7631-90-5	2

Section 3. Hazards Identification

Physical State and Appearance Solid. (Crystals)

Emergency Overview CAUTION !
CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION.
MAY BE HARMFUL IF SWALLOWED.

Routes of Entry Dermal contact. Eye contact. Inhalation. Ingestion.

Potential Acute Health 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 (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Inhalation Hazardous in case of inhalation (lung irritant).

Ingestion May be hazardous in case of ingestion.

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)

Continued on Next Page

Medical Conditions Repeated or prolonged exposure is not known to aggravate medical condition.
Aggravated by
Overexposure:

Section 4. First Aid 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 Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Section 5. Fire Fighting Measures

Flammability of the Product Non-flammable.

Auto-ignition Temperature Not applicable.

Flash Points Not applicable.

Flammable Limits Not applicable.

Products of Combustion Not applicable.

Fire Hazards in Presence of Various Substances Not applicable.

Explosion Hazards in Presence of Various Substances Risks of explosion of the product in presence of static discharge: No.
Risks of explosion of the product in presence of mechanical impact: No.

Fire Fighting Media and Instructions Not applicable.

Protective Clothing (Fire) Not applicable.

Special Remarks on Fire Hazards Not available.

Special Remarks on Explosion Hazards Development of hazardous combustion gases or vapors possible in the event of fire.

Section 6. Accidental Release Measures

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

Large Spill and Leak Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

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

Section 7. Handling and Storage

Handling	Avoid contact with eyes. Do not ingest. Do not breathe dust. Avoid prolonged or repeated contact with skin. Use only with adequate ventilation. Wash thoroughly after handling.
Storage	Keep in a well-ventilated place.

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.
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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

Sodium Metabisulfite

Exposure Limits

Belgium Minister of Labour (Belgium, 1998).

VL: 5 mg/m³ 8 hour(s).

DK-Arbejdstyilsinet (Denmark, 1996).

GV: 5 mg/m³ 8 hour(s).

INRS (France, 1996).

VME: 5 mg/m³ 8 hour(s).

National Authority for Occupational Safety/Health (Ireland, 1999).

OEL: 5 mg/m³ 8 hour(s).

Arbeidsinspectie (Netherlands, 1999).

TGG 8 uur: 5 mg/m³ 8 hour(s).

N-Arbejdstyilsinet (Norway, 1996).

AN: 5 mg/m³ 8 hour(s).

EH40-OES (United Kingdom (UK), 1997).

TWA: 5 mg/m³ 8 hour(s).

ACGIH (United States, 1996).

TWA: 5 mg/m³ 8 hour(s).

NIOSH REL (United States, 1994).

TWA: 5 mg/m³ 10 hour(s).

OSHA Final Rule (United States, 1989).

TWA: 5 mg/m³ 8 hour(s).

Sodium Bisulfite

Not available.

Section 9. Physical and Chemical Properties

Odor	Sulfurous.
Color	White.
Physical State and Appearance	Solid. (Crystals)
Molecular Weight	Not applicable.
Molecular Formula	Not applicable.
pH	Not available.
Boiling/Condensation Point	Not available.
Melting/Freezing Point	Decomposition temperature: 302°C (575.6°F)
Specific Gravity	1.48 (Water = 1)
Vapor Pressure	Not available.
Vapor Density	Not available.
Odor Threshold	Not available.
Evaporation Rate	Not available.
LogK_{ow}	Not available.
Solubility	Soluble in water.

Section 10. Stability and Reactivity

Stability and Reactivity	Unstable.
Conditions of Instability	Stability: Strength diminishes somewhat with age. Gradually decomposes in air to sulfate, generating sulfurous acid gas.
Incompatibility with Various Substances	Reactive with oxidizing agents, reducing agents, acids, moisture. Slightly reactive to reactive with metals, alkalis.
Rem/Incompatibility	Incompatible with aluminum and magnesium.
Hazardous Decomposition Products	SO _x , Na ₂ O
Hazardous Polymerization	Will not occur.

Section 11. Toxicological Information

RTECS Number:	Sodium Metabisulfite Sodium Bisulfite	UX8225000 VZ2000000
Toxicity	LD ₅₀ : Not available. LC ₅₀ : Not available.	
Chronic Effects on Humans	Not available.	
Acute Effects on Humans	Hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching. Hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Hazardous in case of inhalation (lung irritant). May be hazardous in case of ingestion.	

Special Remarks on Other Toxic Effects on Humans Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

Synergetic Products (Toxicologically) Not available.

Irritancy Draize Test: Not available.

Sensitization Hazardous in case of skin contact (sensitizer), of inhalation (lung sensitizer).

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

Toxicity to Reproductive System Not available.

Teratogenic Effects Not available.

Mutagenic Effects Not available.

Section 12. Ecological Information

Ecotoxicity Not available.

BOD5 and COD Not available.

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

Section 13. Disposal Considerations

EPA Waste Number D003

Treatment Specified technology-Contact your local permitted waste disposal site (TSD) for permissible treatment sites. ALWAYS CONTACT PERMITTED WASTE DISPOSER (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 Not available.

ICAO/IATA Classification Not available.

Section 15. Regulatory Information

U.S. Federal Regulations TSCA 8(a) PAIR: Sodium Metabisulfite; Sodium Bisulfite
TSCA 8(b) inventory: Sodium Metabisulfite; Sodium Bisulfite
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: Sodium Metabisulfite; Sodium Bisulfite
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Sodium Metabisulfite: Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard; Sodium Bisulfite: 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: Sodium Bisulfite
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.

Continued on Next Page

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

CEPA DSL: Sodium Metabisulfite; Sodium Bisulfite

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all required information.

International Regulations

EINECS Sodium Metabisulfite 231-673-0
Sodium Bisulfite 231-548-0

DSCL (EEC) R37/38- Irritating to respiratory system and skin.
R41- Risk of serious damage to eyes.
R42/43- May cause sensitization by inhalation and skin contact.

International Lists Australia (NICNAS): Sodium Metabisulfite

Japan (MITI): Sodium Metabisulfite

Korea (TCCL): Sodium Metabisulfite

Philippines (RA6969): Sodium Metabisulfite

China: No products were found.

State Regulations

Pennsylvania RTK: Sodium Metabisulfite: (generic environmental hazard)

Massachusetts RTK: Sodium Metabisulfite

New Jersey: Harleco® Form-X™ Formalin Neutralizer

California prop. 65: No products were found.

Section 16. Other Information

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



**Changed Since Last
Revision**



Notice to Reader

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