



Material Safety Data Sheet

Section 1. Product and Company Identification

Product Name	Midas III Performance Lubricant	Product Code	640GPL226
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	7/28/2005
		Print Date	7/28/2005

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	Grease

Section 2. Composition and Information on Ingredients

Component	CAS #	% by Weight
Perfluoroalkylether	60164-51-4	71-80
Sodium Nitrite	7632-00-0	2
PTFE	9002-84-0	18-27

Section 3. Hazards Identification

Physical State and Appearance	Solid. (Waxy solid.)
Emergency Overview	WARNING ! CAUSES EYE AND SKIN IRRITATION. MAY BE HARMFUL IF INHALED OR SWALLOWED. MAY CAUSE RESPIRATORY TRACT IRRITATION. CONTAINS MATERIAL WHICH MAY CAUSE DAMAGE TO THE FOLLOWING ORGANS: LUNGS,EYE, LENS OR CORNEA.
Routes of Entry	Dermal contact. Eye contact. Inhalation. Ingestion.
Potential Acute Health Effects	<p>Eyes Hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching.</p> <p>Skin Hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.</p> <p>Inhalation May be hazardous in case of inhalation (lung irritant). May cause lung damage if inhaled in sufficient quantities.</p> <p>Ingestion May be hazardous in case of ingestion. Do not take internally.</p>

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 or prolonged exposure is not known to aggravate medical condition.

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.
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	Thermal decomposition of product can produce toxic vapors of Fluorine
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.
Spill Kit Information	No specific spill kit required for this product.

Section 7. Handling and Storage

Handling	Avoid contact with eyes, skin and clothing. Do not ingest. Avoid breathing dust. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.
Storage	Keep container tightly closed. 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.
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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

Perfluoroalkylether
Sodium Nitrite
PTFE

Exposure Limits

Not available.
Not available.
Not available.

Section 9. Physical and Chemical Properties

Odor Odorless.

Color White.

Physical State and Appearance Solid. (Waxy solid.)

Molecular Weight Not applicable.

Molecular Formula Not applicable.

pH Neutral.

Boiling/Condensation Point Not available.

Melting/Freezing Point 320°C (608°F)

Specific Gravity 1.89 to 1.92 (Water = 1)

Vapor Pressure Not available.

Vapor Density The highest known value is 2.4 (Air = 1) (Sodium Nitrite).

Odor Threshold Not available.

Evaporation Rate	Not available.
LogK_{ow}	Not available.
Solubility	Partially soluble in water.

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Conditions of Instability	Not available.
Incompatibility with Various Substances	Not available.
Rem/Incompatibility	Avoid excessive heat. In contact with organic matter, will ignite by friction. Explodes when heated to over 1000F or on contact with cyanides:Ammonium ions and salts, cellulose:Lithium,Potassium, Potassium Hydroxide and Sodium Thiosulfate. (Sodium Nitrite)
Hazardous Decomposition Products	Not available.
Hazardous Polymerization	Will not occur.

Section 11. Toxicological Information

RTECS Number:	Perfluoroalkylether Sodium Nitrite PTFE	Not available. RA1225000 Not available.
Toxicity	Not available.	
Chronic Effects on Humans	Contains material which may cause damage to the following organs: lungs.	
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. May be hazardous in case of inhalation (lung irritant). May be hazardous in case of ingestion.	
Special Remarks on Other Toxic Effects on Humans	May cause lung damage if inhaled in sufficient quantities.	
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	Not available.	
Teratogenic Effects	Not available.	
Mutagenic Effects	Not available.	

Section 12. Ecological Information

Ecotoxicity	Not available.
BOD5 and COD	Not available.

Section 13. Disposal Considerations

EPA Waste Number	Not available.
Treatment	Material does not have an EPA Waste number and is not a listed waste, however consultation with a permitted waste disposal site (TSD) should be accomplished. 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 5(a)2 final significant rules: Sodium Nitrite TSCA 8(b) inventory: Sodium Nitrite Perfluoroalkylether and PTFE: Exempt from TSCA listing requirements. 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 Nitrite SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found. SARA 313 toxic chemical notification and release reporting: Sodium Nitrite 2% Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: Sodium Nitrite 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-2A: Material causing other toxic effects (VERY TOXIC). CEPA DSL: Sodium Nitrite 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	Perfluoroalkylether Not available. Sodium Nitrite 231-555-9 PTFE 204-126-9
DSCL (EEC)	R36/37/38- Irritating to eyes, respiratory system and skin.
International Lists	Australia (NICNAS): Sodium Nitrite Germany water class: Sodium Nitrite Japan (MITI): Sodium Nitrite Korea (TCCL): Sodium Nitrite Philippines (RA6969): Sodium Nitrite China: No products were found.

State Regulations

Pennsylvania RTK: Sodium Nitrite: (environmental hazard, generic environmental hazard)
Massachusetts RTK: Sodium Nitrite
New Jersey: Midas Performance Lubricant
California prop. 65: No products were found.

Section 16. Other Information

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



Other Special Considerations

Contract with very hot surfaces (above 500°F) can generate fumes which can cause coughing or respiratory irritation. Large amounts could lead to lung damage which might not be apparent for several hours. These fumes may also cause flu-like symptoms which may not occur until several hours after exposure and pass within 36-48 hours.

Changed Since Last Revision

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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.

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