



Material Safety Data Sheet

Section 1. Product and Company Identification

Product Name	Ascarite II ®, 8-20 Mesh	Product Code	AX1773
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	3/4/2006
		Print Date	3/13/2006

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	Analytical reagent.
Chemical Family	Inorganic

Section 2. Composition and Information on Ingredients

Component	CAS #	% by Weight
Sodium Hydroxide	1310-73-2	92

Section 3. Hazards Identification

Physical State and Appearance	Solid.
Emergency Overview	DANGER! POISON! MAY BE FATAL IF SWALLOWED. CAUSES SEVERE RESPIRATORY TRACT, EYE AND SKIN BURNS. HARMFUL IF INHALED OR ABSORBED THROUGH SKIN. CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS: LUNGS, RESPIRATORY TRACT, SKIN, EYE, LENS OR CORNEA.
Routes of Entry	Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.
Potential Acute Health Effects	<p>Eyes Extremely hazardous in case of eye contact (corrosive). Causes severe eye burns.</p> <p>Skin Extremely hazardous in case of skin contact (corrosive). Skin contact produces severe burns. Hazardous in case of skin contact (permeator).</p> <p>Inhalation Extremely hazardous in case of inhalation (lung corrosive). Hazardous in case of inhalation.</p> <p>Ingestion Extremely hazardous in case of ingestion. May be fatal if swallowed.</p>

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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 of the eyes to a low level of dust can produce eye irritation. Repeated skin exposure can produce local skin destruction, or dermatitis. Repeated inhalation of dust can produce varying degree of respiratory irritation or lung damage. 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 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. 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 Fighting 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	Some metallic oxides.
Fire Hazards in Presence of Various Substances	Not available.
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	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	Flammable hydrogen gas may be produced on prolonged contact with metals such as aluminum, tin, lead and zinc. (Sodium Hydroxide)
Special Remarks on Explosion Hazards	Not available.

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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	Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use 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. 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, skin and clothing. Do not ingest. Do not breathe dust.
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 Synthetic apron.

Respiratory Vapor and 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. Vapor and 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 Hydroxide

Exposure Limits

ACGIH (United States).

CEIL: 2 mg/m³

OSHA (United States).

CEIL: 2 mg/m³

AUVA (Austria, 1995).

Spitzenbegrenzung: 4 mg/m³ 8 times per shift, 5 minute(s).

TWA: 2 mg/m³ 8 hour(s).

Belgium Minister of Labour (Belgium, 1998).

CEIL: 2 mg/m³

VL: 2 mg/m³ 8 hour(s).

BAUA (Germany, 1997).

Spitzenbegrenzung: 2 mg/m³

TWA: 2 mg/m³ 8 hour(s).

DK-Arbejdstylsinet (Denmark, 1996).

Loftværdi: 2 mg/m³

GV: 2 mg/m³ 8 hour(s).

Tyterveyslaitos (Finland, 1998).

TWA: 2 mg/m³ 8 hour(s).

INRS (France, 1996).

VME: 2 mg/m³ 8 hour(s).

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

STEL: 2 mg/m³ 15 minute(s).

Arbeidsinspectie (Netherlands, 1999).

MAC-C: 2 mg/m³

TGG 8 uur: 2 mg/m³ 8 hour(s).

N-Arbeidstilsynet (Norway, 1996).

AN: 2 mg/m³ 8 hour(s).

AFS (Sweden, 1996).

KTV: 2 mg/m³ 15 minute(s).

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

STEL: 2 mg/m³ 15 minute(s).

NIOSH REL (United States, 1994).

CEIL: 2 mg/m³

OSHA Final Rule (United States, 1989).

CEIL: 2 mg/m³

Section 9. Physical and Chemical Properties

Odor	Not available.
Color	light-green.
Physical State and Appearance	Solid.
Molecular Weight	Not applicable.
Molecular Formula	Not applicable.
pH	Not available.
Boiling/Condensation Point	Not available.
Melting/Freezing Point	318.38°C (605.1°F) based on data for: Sodium Hydroxide.
Specific Gravity	The only known value is 2.13 (Water = 1) (Sodium Hydroxide).
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	The product is stable.
Conditions of Instability	Not available.
Incompatibility with Various Substances	Reactive with organic materials, metals, acids, moisture.
Rem/Incompatibility	Not available.
Hazardous Decomposition Products	Not available.
Hazardous Polymerization	Will not occur.

Section 11. Toxicological Information

RTECS Number:	Sodium Hydroxide	WB4900000
Toxicity	LD ₅₀ : Not available. LC ₅₀ : Not available.	
Chronic Effects on Humans	Not available.	
Acute Effects on Humans	Extremely hazardous in case of eye contact (corrosive). Causes severe eye burns. Extremely hazardous in case of skin contact (corrosive). Skin contact produces severe burns. Hazardous in case of skin contact (permeator). Extremely hazardous in case of inhalation (lung corrosive). Hazardous in case of inhalation. Extremely hazardous in case of ingestion. May be fatal if swallowed.	
Synergetic Products (Toxicologically)	Not available.	
Irritancy	Draize Test: Not available.	
Sensitization	Slightly hazardous in case 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	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 Biodegradation	The products of degradation are less toxic than the product itself.

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 a permitted waste disposal (TSD) to assure compliance with all current local, state, and Federal Regulations.

Section 14. Transport Information

DOT Classification	Proper Shipping Name: SODIUM HYDROXIDE, SOLID Hazard Class: 8 UN number: UN1823 Packing Group: II RQ: 1000 lbs. (453.6 kg)
TDG Classification	Not available.
IMO/IMDG Classification	Not available.
ICAO/IATA Classification	Proper Shipping Name: SODIUM HYDROXIDE, SOLID Hazard Class: 8 UN number: UN1823 Packing Group: II RQ: 1000

Section 15. Regulatory Information

U.S. Federal Regulations	TSCA 8(b) inventory: Ascarite II ® 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 Hydroxide SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Sodium Hydroxide: 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 Hydroxide 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-2A: Material causing other toxic effects (VERY TOXIC). CLASS E: Corrosive solid.	
	CEPA DSL: Sodium Hydroxide	
	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 Hydroxide	215-185-5
DSCL (EEC)	R35- Causes severe burns.	

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International Lists Australia (NICNAS): Sodium Hydroxide

Japan (MITI): Sodium Hydroxide

Korea (TCCL): Sodium Hydroxide

Philippines (RA6969): Sodium Hydroxide

China: No products were found.

State Regulations

Pennsylvania RTK: Sodium Hydroxide: (environmental hazard, generic environmental hazard)

Massachusetts RTK: Sodium Hydroxide

New Jersey: Sodium Hydroxide

California prop. 65: No products were found.

+Section 16. Other Information

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



**Other Special
Considerations**

Ascarite II ® is Sodium Hydroxide coated Silica.

**Changed Since Last
Revision**

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Notice to Reader

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