

24 Hours/Day: 7 Days/Week

Material Safety Data Sheet

Section 1. Product and Company Identification			
Product Name	Sodium Hypochlorite 6%	Product Code	VW3248
Manufacturer	EMD Chemicals Inc.	Effective Date	5/20/2005
	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	5/20/2005
For More Information Call		In Case of Emergency Call	
856-423-6300 Technical Service Monday-Friday: 8:00 AM - 5:00 PM			CHEMTREC (USA) CANUTEC (Canada)

Synonym Bleach

Material Uses Laboratory Reagent

Chemical Family Inorganic salt solution.

Section 2. Composition and Information on Ingredients		
Component	CAS#	% by Weight
Sodium Hypochlorite Water	7681-52-9 7732-18-5	6 94

Section 3. Hazards Identification Physical State and Liquid. Appearance Emergency Overview DANGER!

CORROSIVE!
VAPOR HARMFUL

HARMFUL IF INHALED, ABSORBED THROUGH SKIN OR SWALLOWED.

CAUSES RESPIRATORY TRACT, EYE AND SKIN BURNS.

Routes of Entry Absorbed through skin. Dermal contact. Inhalation. Ingestion.

Potential Acute Health Effects

Eyes Hazardous in case of eye contact (corrosive). Causes eye burns.

Skin Hazardous in case of skin contact (permeator, corrosive). Skin contact produces burns.

Inhalation Hazardous in case of inhalation (lung corrosive).

Ingestion 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)

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Medical Conditions Aggravated by Overexposure:	Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory trac irritation leading to frequent attacks of bronchial infection. 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	d 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 of waistband. Get medical attention immediately.		
Section 5. Fire Fig	hting 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	' '		
Explosion Hazards in	Risks of explosion of the product in presence of static disc	harge: No.	
Presence of Various Substances	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	Contact with acid liberates highly toxic chlorine gas. (Sodium Hypochlorite)		
Section 6. Accide	ntal Release Measures		
Small Spill and Leak	Dilute with water and mop up, or absorb with an in waste disposal container.	nert dry material and place in an appropriate	
Large Spill and Leak	Stop leak if without risk. Absorb with DRY earth	sand or other non-combustible material. Do	

Large Spill and Leak Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do

not get water inside container. Do not touch spilled material. Use water spray curtain to divert vapor drift. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. 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.

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Spill Kit Information

The following EMD Chemicals Inc. SpillSolv (TM) absorbent is recommended for this product: SX1320 Caustic Treatment Kit

Section 7. Handling and Storage

Handling	Avoid contact with eyes, skin and clothing. Do not ingest. Do not breathe vapor or mist. 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. Store in refrigerator. Store at 2-8°C

Section 8. Exposure Controls/Personal Protection

Engineering ControlsProvide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection

Eyes Face shield.

Body Full suit.

Respiratory Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

Hands Gloves.

Feet Boots.

Protective Clothing (Pictograms)



Personal Protection in Case of a Large Spill

Splash goggles. Full suit. Vapor 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

Sodium Hypochlorite AIHA WEEL (United States, 2000).

STEL: 2 mg/m³ 15 minute(s).

Water Not available.

Section 9. Physical and Chemical Properties

Odor	Chlorine like odour	
Color	Clear. Colorless to light yellow.	
Physical State and Appearance	Liquid.	
Molecular Weight	Not applicable.	
Molecular Formula	Not applicable.	
рН	Not available.	
Boiling/Condensation Point	The lowest known value is 99.9°C (211.8°F) (Water).	
Melting/Freezing Point	May start to solidify at -0.1°C (31.8°F) based on data for: Water.	
Specific Gravity	The only known value is 1.09 (Water = 1) (Sodium Hypochlorite).	
Vapor Pressure	Not available.	
Vapor Density	2.0-2.5 (air=1)	

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Odor Threshold	Not available.		
Evaporation Rate	0.36 (Water) compared to(n-Butyl Acetate =1)		
LogKow	Not available.		
Solubility	Soluble in water.		

Section 10. Stability and Reactivity		
Stability and Reactivity	The product is stable.	
Conditions of Instability	May decompose on exposure to light.	
Incompatibility with Various Substances	Reactive with oxidizing agents, reducing agents, combustible materials, acids.	
Rem/Incompatibility	Avoid Heat Avoid contamination by any source including metals, dust, and organic materials. Avoid ammonia, alkalies, antimony salts, oils, arsenities, bromides, carbonates, chlorides, iodides, thiocyanates, ferrous salts, phosphates, tannic acid, and tartrates (Sodium Hypochlorite)	
Hazardous Decomposition Products	Chlorine. , NaOH , Na2O	

Hazardous Polymerization Will not occur.

RTECS Number:	Sodium Hypochlorite	NH3486300	
	Water	ZC0110000	
Toxicity	Acute oral toxicity (LD50): 96667	te oral toxicity (LD ₅₀): 96667 mg/kg (Mouse) (Calculated value for the mixture).	
Chronic Effects on Humans	Contains material which may catract, skin, eye, lens or cornea.	ause damage to the following organs: blood, upper respiratory	
Acute Effects on Humans		act (corrosive). Causes eye burns. Hazardous in case of skin contact produces burns. Hazardous in case of inhalation (lung ingestion.	
Synergetic Products (Toxicologically)	Not available.		
Irritancy	<u>Draize Test</u> : 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.		

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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

Classification

Section 13. Disposal Considerations

EPA Waste Number D002

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 Proper Shipping Name: HYPOCHLORITE

SOLUTIONS Hazard Class: 8 UN number: UN1791 Packing Group: III RQ: 100 lbs. (45.36 kg)

mber: UN1791 g Group: III

TDG Classification Not available.

IMO/IMDG Not available.

ICAO/IATA Not available.
Classification

Section 15. Regulatory Information

U.S. Federal Regulations TSCA 8(b) inventory: Sodium Hypochlorite; Water

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 Hypochlorite

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Sodium

Hypochlorite: Immediate (Acute) 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 Hypochlorite

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 E: Corrosive liquid.

CEPA DSL: Sodium Hypochlorite; Water

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 Sodium Hypochlorite 231-668-3

Water 231-791-2

DSCL (**EEC**) R38- Irritating to skin.

R41- Risk of serious damage to eyes.

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International Lists Australia (NICNAS): Sodium Hypochlorite; Water

Germany water class: Sodium Hypochlorite

Japan (MITI): Sodium Hypochlorite; Water

Korea (TCCL): Sodium Hypochlorite; Water

Philippines (RA6969): Sodium Hypochlorite; Water

China: No products were found.

State Regulations Pennsylvania RTK: Sodium Hypochlorite: (environmental hazard, generic environmental

hazard)

Massachusetts RTK: Sodium Hypochlorite New Jersey: Sodium Hypochlorite 6% California prop. 65: No products were found.

Section 16. Other Information

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



Specific Hazard

Changed Since Last Revision



Notice to Reader

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