

Material Safety Data Sheet

Section 1. Product and Company Identification			
Product Name	Sodium Perchlorate	Product Code	SX0692
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 Print Date	2/27/2006 3/13/2006
For More Informat 856-423-6300 Te Monday-Friday: 8:0	chnical Service		CHEMTREC (USA) CANUTEC (Canada)
Synonym	PERCHLORIC ACID SODIUM SALT		
Material Uses	Analytical reagent.		
Chemical Family	Salt.		

Section 2. Composition and Information on Ingredients		
Component	CAS #	% by Weight
Sodium Perchlorate	7601-89-0	100

Physical State and Solid. (Deliquescent crystals solid.)			
Appearance			
Emergency Overview	DANGER! STRONG OXIDIZER. CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE. HARMFUL IF SWALLOWED. CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS: RESPIRATORY TRACT, SKIN, EYE, LENS OR CORNEA.		

 Routes of Entry
 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
 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	Repeated exposure to a highly toxic material may produce general deterioration of health by an
Aggravated by	accumulation in one or many human organs.
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	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	Non-flammable.
Auto-ignition Temperature	Not applicable.
Flash Points	Not applicable.
Flammable Limits	Not applicable.
Products of Combustion	Not available.
Fire Hazards in Presence of Various Substances	Not applicable.
Explosion Hazards in	Risks of explosion of the product in presence of static discharge: No.
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.
Presence of Various	
Presence of Various Substances Fire Fighting Media	Risks of explosion of the product in presence of mechanical impact: No.
Presence of Various Substances Fire Fighting Media and Instructions	Risks of explosion of the product in presence of mechanical impact: No. Not applicable.

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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. Avoid contact with a combustibl material (wood, paper, oil, clothing). Keep substance damp using water spray. Do not touc spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements confined areas; dike if needed. Call for assistance on disposal.	
Spill Kit Information	No specific spill kit required for this product.	

Section 7. Handling and Storage

Do not get in eyes, on skin, or on clothing. Do not breathe Handling Store in tightly closed container. dust. Do not ingest. Storage Keep container in a cool, well-ventilated area. Separate from acids, alkalies, reducing agents and combustibles.

Section 8. Exposure Controls/Personal Protection

Use process enclosures, local exhaust ventilation, or other engineering controls to keep **Engineering Controls** 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 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 **Case of a Large Spill** might not be sufficient; consult a specialist BEFORE handling this product.

Product Name Exposure Limits Sodium Perchlorate Not available.

Section 9. Physical and Chemical Properties

Odor	Odorless.	
Color	White.	
Physical State and Appearance	Solid. (Deliquescent crystals solid.)	
Molecular Weight	122.44 g/mole	
Molecular Formula	NaClO4	

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рН	Not available.		
Boiling/Condensation Point	Not available.		
Melting/Freezing Point	Not available.		
Specific Gravity	Not available.		
Vapor Pressure	Not available.		
Vapor Density	Not available.		
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 Rem/Incompatibility	Highly reactive with combustible materials, organic materials. Reactive with acids. Not available.

Hazardous Decomposition Na2O , Chlorine. Products

Hazardous Polymerization Will not occur.

Section 11. Toxicological Information			
RTECS Number:	Sodium Perchlorate	SC9800000	
Toxicity	Acute oral toxicity (LD₅₀): 2100 mg/kg [Rat].		
Chronic Effects on Humans	Not available.		
Acute Effects on Humans	watering, and itching. Hazardous in case	lammation of the eye is characterized by redness, of skin contact (irritant). Skin inflammation is or, occasionally, blistering. Hazardous in case of gestion.	
Synergetic Products (Toxicologically)	Not available.		
Irritancy	Draize Test: Not available.		
Sensitization	Not available.		
Carcinogenic Effects	This material is not known to cause cancer in ani	imals or humans.	
Toxicity to Reproductive System	Not available.		
Teratogenic Effects	Not available.		

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Mutagenic Effects Tests on laboratory animals for mutagenic effects are cited in Registry of Toxic Effe Substances (RTECS). Substances (RTECS).		ed in Registry of Toxic Effects of Chemical	
Section 12. Eco	Section 12. Ecological Information		
Ecotoxicity	Not available	Not available.	
BOD5 and COD	Not available	Not available.	

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

EPA Waste Number	D001			
EPA waste Number	B001			
Treatment	Specifed Technology - Contact your local permitted waste disposal site (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. Trans	sport Information			
DOT Classification	Proper Shipping Name: SODIUM PERCHLORATE Hazard Class: 5.1 UN number: UN1502 Packing Group: II RQ: Not applicable.			
FDG Classification	Not available.			
MO/IMDG Classification	Proper Shipping Name: SODIUM PERCHLORATE Hazard Class: 5.1 UN number: UN1502 Packing Group: II RQ: Not applicable.			
CAO/IATA Classification	Proper Shipping Name: SODIUM PERCHLORATE Hazard Class: 5.1 UN number: UN1502 Packing Group: II RQ: Not applicable.			
Section 15. Regu	latory Information			
U.S. Federal Regulations	TSCA 8(b) inventory: Sodium Perchlorate 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 Perchlorate SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Sodium Perchlorate: Fire Hazard, 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.			
	 SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Sodium Perchlorate: Fire Hazard, 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)	 SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Sodium Perchlorate: Fire Hazard, 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. 			

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	•	classifed in accordance wit SDS contains all required in		of the Controlled Produc	
International Regulations EINECS	Sodium Perchlorate	231-511-9			
DSCL (EEC)	R8- Contact with combustible material may cause fire. R37/38- Irritating to respiratory system and skin. R41- Risk of serious damage to eyes.				
International Lists	Australia (NICNAS): So	odium Perchlorate			
	Japan (MITI): Sodium F	Perchlorate			
	Korea (TCCL): Sodium	Perchlorate			
	Philippines (RA6969): S China: No products we				
State Regulations	Pennsylvania RTK: So Massachusetts RTK: S New Jersey: Sodium P		environmental hazaro	(k	
	California prop. 65: No products were found.				
Section 16. Other	Information				
		National Fire Protection	202	Fire Hazard	
		Association (U.S.A.)	Health OXY	Reactivity	
				Specific Hazard	
Changed Since Last Revision	+				

Notice to Reader

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