

Curtin Matheson Scientific, Inc. 1225 N MICHAEL DRIVE

WOOD DALE, IL 60191-1019

SCHOOLCRAFT COLLEGE MAIL TO:

> HPS MEMBER 18600 HAGGERTY RD.

LIVONIA, MI 48152-2696

MATERIAL SAFETY DATA SHEET

SECTION 1 - NAME AND PRODUCT

MANUFACTURER NAME AND ADDRESS EM SCIENCE

A DIV OF EM INDUSTRIES

P.O. BOX 70

EMERGENCY PHONE NJ 08027 1-800-424-9300(CHEMTREC)

COMMON NAME (ON LABEL)

SODIUM PERCHLORATE, MONOHYDRATE

TRADE NAME & SYNONYMS

PERCHLORIC ACID SODIUM SALT SODIUM PERCHLORATE, MONOHYDRATE CHEMICAL NUMBER: MSX0693-2

ITEM NUMBER: 0748558
VNDR CATLG NBR:
ENTRY DATE: 02-24-90

CHANGE DATE: 08-22-95

PO NUMBER: 82676

CHEMICAL FAMILY

SALT

CHEMICAL FORMULA

NACLO4 . H2O

SECTION 2 - HAZARDOUS INGREDIENTS

100.00	.000 SEC.5	.000 SEC.5
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PEL: Permissible Exposure Limit established by the Occupational Safety and Health Administration (OSHA).

TLY: Threshold Limit Value established by the American Conference of Governmental Industrial Hygienists, 1986-87.

OTHER INGREDIENT INFORMATION NONE OTHER THAN SPECIFIED PRODUCT.

SECTION 3 - PHYSICAL DATA

BOILING POINT	VOLATILE BY VOLUME (%)	VAPOR PRESSURE
DECOMPOSES	N/A	N/A 20C
MELTING POINT	VAPOR DENSITY	SOLUBILITY IN WATER
482C	N/A	SOLUBLE
EVAPORATION RATE (BUAC = 1)	SPECIFIC GRAVITY	
N/A	2.02	

APPEARANCE AND ODOR
WHITE, DELIQUESCENT, ODORLESS CRYSTALS

OTHER PHYSICAL DATA MOLECULAR WEIGHT .: 140.46

	SECTION 4 -	FIRE AND EXPLOSIO	N DATA	PAGE 2 OF
LASH POINT	OLO HOR 4	THE AND EXPLOSIC	AL DATA	
NONE				
OWER EXPLOSIVE LIMIT		UPPER EXPLOS	IVE LIMIT	
N/A		N/A		
XTINGUISHING MEDIA FLOOD WITH WATER.				
LOOD WITH WATER.				
<u> </u>	7. J.			
INUSUAL FIRE AND EXPLOSION FORMS EXPLOSIVE MIXTURES WITH EASILY OXIDIZABLE MATERIALS. THE CONTAINERS MAY EXPLODE WHEN IT LIBERATES TOXIC GASES WHEN INVESTIGATION	ESE MIXTURES ARE E.		N OR HEAT.	
PECIAL FIRE FIGHTING PROCE			- - -	
	SECTION 5	- HEALTH HAZARD	DATA	
SEE SIGNS AND SYMPTOMS OF EXPO	RONIC) DSURE.			
RIMARY ROUTES OF EXPOSURE INHALATION, INGESTION				
SIGNS AND SYMPTOMS OF EXPOS HARMFUL IF SWALLOWED. IRRITATIN EYES AND MUCOUS MEMBRANES.	SURE NG TO SKIN,			

	SECTION 5 - HEALTH HAZARD DATA (CONTINUED)
	MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
	CARCINOGENICITY NTP
	CARCINOGENICITY THE MATERIAL IS NOT LISTED AS A CANCER CAUSING AGENT. NTP Yes No IARC Yes No OSHA Yes No
	EMERGENCY AND FIRST AID PROCEDURES GET MEDICAL ASSISTANCE FOR ALL CASES OF OVEREXPOSURE, SKIN: IMMEDIATELY
	FLUSH THOROUGHLY WITH LARGE AMOUNTS OF WATER. EYES: IMMEDIATELY FLUSH THOROUGHLY WITH WATER FOR AT LEAST 15 MINUTES INHALATION: REMOVE TO FRESH AIR; GIVE ARTIFICAL RESPIRATION
	IF BREATHING HAS STOPPED. INGESTION: IF CONSCIOUS, DRINK WATER AND INDUCE VOMITING AS DIRECTED BY MEDICAL PERSONNEL.
	NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.
)	THRESHOLD LIMITS / TOXICITY DATA ACGIH TLV/OSHA PEL (TWA): N/G. TOXICITY DATA:
	ORL-MUS LD50: 1150 MG/KG TOXICOLOGICAL FINDINGS: TESTS ON
	LABORATORY ANIMALS INDICATE MATERIAL MAY PRODUCE ADVERSE MUTAGENIC EFFECTS. CITED IN REGISTRY OF TOXIC EFFECTS OF SUBSTANCES (RTECS).
	SECTION 6 - REACTIVITY DATA
	STABILITY Unstable Stable
	CONDITIONS TO AVOID SEPARATE FROM COMBUSTIBLE, ORGANIC, READILY OXIDIZABLE
	MATERIALS, ACIDS, SULFUR, CARBONACEOUS MATERIALS AND COTTON.
	INCOMPATIBILITY (MATERIALS TO AVOID) ACIDS
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SECTION 6 - REACTIVITY DATA (CONTINUED)	FAGE 4 OF 5
HAZARDOUS DECOMPOSITION OR BYPRODUCTS CHLORINE COMPOUNDS, NA20	
GREGNINE COM CONDS, NAZO	
···	
HAZARDOUS POLYMERIZATION May Occur Will Not Occur D CONDITIONS TO AVOID DOES NOT OCCUR	
DOES NOT OCCUR	
SECTION 7 - SPILL, LEAK, AND DISPOSAL PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED VACUATE THE AREA OF ALL UNNECESSARY PERSONNEL. WEAR SUITABLE PROTECTIVE EQUIPMENT LISTED	
VACUATE THE AREA OF ALL UNNECESSARY PERSONNEL. WEAR SUITABLE PROTECTIVE EQUIPMENT LISTED UNDER EXPOSURE / PERSONAL PROTECTION. ELIMINATE ANY IGNITION SOURCES UNTIL THE AREA IS	
DETREMINED TO BE FREE FROM EXPLOSION OR FIRE HAZARDS. CONTAIN THE RELEASE AND ELIMINATE ITS	
SOURCE IF THIS CAN BE DONE WITHOUT RISK. TAKE UP AND CONTAINERIZE FOR PROPER DISPOSAL AS DESCRIBED DISPOSAL. COMPLY WITH FEDERAL, STATE, AND LOCAL REGULATIONS ON REPORTING	
RELEASES. REFER TO REGULATORY INFORMATION FOR REPORTABLE QUANTITY AND OTHER REGULATORY DATA.	
WASTE DISPOSAL METHOD EPA WASTE NUMBERS: D001. TREATMENT: CONTACT	
YOUR LOCAL PERMITTED WASTE DISPOSAL SITE (TSD) FOR PERMISSIBLE TREATMENT SITES.	
ALWAYS CONTACT A PERMITTED WASTE DISPOSER (TSD) TO ASSURE COMPLIANCE WITH ALL CURRENT LOCAL, STATE, AND FEDERAL REGULATIONS.	
COMPLIANCE WITH ALL COMMENT ECONE, CHAIL, AND PEDEMAL MEGGLATIONS.	
SECTION 8 - SPECIAL PROTECTION INFORMATION	
RESPIRATORY PROTECTION IF WORKPLACE EXPOSURE LIMIT(S) OF PRODUCT OR ANY COMPONENT IS EXCEEDED (SEE TLV/PEL), A	
NIOSH/MSHA APPROVED AIR SUPPLIED RESPIRATOR IS ADVISED IN ABSENCE OF PROPER ENVIRONMENTAL	
CONTROL. OSHA REGULATIONS ALSO PERMIT OTHER NIOSH/MSHA RESPIRATORS (NEGATIVE PRESSURE TYPE) UNDER SPECIFIED CONDITIONS (SEEE YOUR SAFETY EQUIPMENT SUPPLIER). ENGINEERING AND/OR ADMINISTRATIVE	
CONTROLS SHOULD BE IMPLEMENTED TO REDUCE EXPOSURE.	
LOCAL VENTULATION	-
LOCAL VENTILATION	
SEE OTHER MECHANICAL VENTULATION	
MECHANICAL VENTILATION	
SEE OTHER SPECIAL VENTILATION	-
SEE OTHER	

-	SECTION 8 - SPECIAL PROTECTION INFORMATION (CONTINUED)
	OTHER VENTILATION MATERIAL MUST BE HANDLED OR TRANSFERRED IN AN APPROVED FUME HOOD OR WITH ADEQUATE VENTILATION.
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	PROTECTIVE GLOVES
	(NEOPRENE OR EQUIV) SHOULD BE WORN TO PREVENT SKIN CONTACT
	EYE PROTECTION
	SAFETY GLASSES WITH SIDE SHIELDS MUST BE WORN AT ALL TIMES
	OTHER PROTECTIVE CLOTHING OR EQUIPMENT N/G
	SECTION 9 - SPECIAL PRECAUTIONS
	PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE STORE IN A COOL PLACE AWAY FROM COMBUSTIBLE AND REDUCING MATERIALS DO NOT BREATHE
	DUST. DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING. WASH THOROUGHLY AFTER HANDLING. DO NOT TAKE
١	INTERNALLY. EYE WASH AND SAFETY EQUIPMENT SHOULD BE READILY AVAILABLE.
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	SECTION 10 - OTHER INFORMATION
	MISCELLANEOUS INFO. NFPA HAZARD RATINGS: HEALTH: 2
	NFPA HAZARD RATINGS: HEALTH: 2 FLAMMABILITY: 0 REACTIVITY : 2 SPECIAL HAZARDS.:
	OXY DOT SHIPPING NAME: SODIUM PERCHLORATE.
	DOT NUMBER: UN1502 COMMENTS: N/G TSCA INVENTORY: THE
	CAS NUMBER OF THIS PRODUCT IS LISTED ON THE TSCA INVENTORY. N/E = NOT ESTABLISHED.
	N/A = NOT AVAILABLE:. N/G = NOT GIVEN.
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