



**Curtin Matheson Scientific, Inc.**  
 1225 N MICHAEL DRIVE  
 WOOD DALE, IL 60191-1019

**MATERIAL SAFETY  
 DATA SHEET**

**MAIL TO:** SCHOOLCRAFT COLLEGE  
 HPS MEMBER  
 18600 HAGGERTY RD.  
 LIVONIA, MI 48152-2696

**SECTION 1 - NAME AND PRODUCT**

**MANUFACTURER NAME AND ADDRESS**  
 EM SCIENCE  
 A DIV OF EM INDUSTRIES  
 P.O. BOX 70  
 GIBBSTOWN NJ 08027  
**EMERGENCY PHONE** 1-800-424-9300(CHEMTREC)

**CHEMICAL NUMBER:** MSX0740-1  
**ITEM NUMBER:** 0404158  
**VNDR CATLG NBR:**  
**ENTRY DATE:** 02-24-90  
**CHANGE DATE:** 11-08-95  
**PO NUMBER:** 82676

**COMMON NAME (ON LABEL)**  
 SODIUM PYROPHOSPHATE, DECAHYDRATE

**CHEMICAL FAMILY**  
 INORGANIC SALT

**TRADE NAME & SYNONYMS**  
 SODIUM PYROPHOSPHATE, DECAHYDRATE  
 TETRASODIUM PYROPHOSPHATE

**CHEMICAL FORMULA**  
 NA4P2O7.10H2O

**SECTION 2 - HAZARDOUS INGREDIENTS**

HAZARDOUS COMPONENT	CAS	% (WT)	TLV	PEL
SODIUM PYROPHOSPHATE, DECAHYDRATE	13472-36-1	100.00	.000 SEC.5	.000 SEC.5

**PEL:** Permissible Exposure Limit established by the Occupational Safety and Health Administration (OSHA).  
**TLV:** 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**

<b>BOILING POINT</b> N/A	<b>VOLATILE BY VOLUME (%)</b> N/A	<b>VAPOR PRESSURE</b> N/A 20C
<b>MELTING POINT</b> N/A	<b>VAPOR DENSITY</b> N/A	<b>SOLUBILITY IN WATER</b> SOLUBLE
<b>EVAPORATION RATE ( BUAC = 1)</b> N/A	<b>SPECIFIC GRAVITY</b> 1.82	

**APPEARANCE AND ODOR**  
 WHITE CRYSTALS

**OTHER PHYSICAL DATA**  
 MOLECULAR WEIGHT.: 446.06

**SECTION 4 - FIRE AND EXPLOSION DATA****FLASH POINT**

NONCOMBUSTIBLE

**LOWER EXPLOSIVE LIMIT**

N/A

**UPPER EXPLOSIVE LIMIT**

N/A

**EXTINGUISHING MEDIA**

ANY SUITABLE FOR ADJACENT MATERIAL.

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

NONE, ALTHOUGH EXTREMELY HIGH TEMPERATURES CAN PRODUCE TOXIC FUMES.

**SPECIAL FIRE FIGHTING PROCEDURES**

WEAR SELF-CONTAINED BREATHING APPARATUS.

**SECTION 5 - HEALTH HAZARD DATA****HEALTH HAZARDS (ACUTE & CHRONIC)**

SEE SIGNS AND SYMPTOMS OF EXPOSURE

**PRIMARY ROUTES OF EXPOSURE**

INHALATION, INGESTION OR SKIN CONTACT.

**SIGNS AND SYMPTOMS OF EXPOSURE**

INHALATION OF ANHYDROUS DUST HARMFUL TO RESPIRATORY PASSAGES MAY BE HARMFUL IF SWALLOWED MAY IRRITATE SKIN, EYES, MUCOUS MEMBRANES.

**SECTION 5 - HEALTH HAZARD DATA (CONTINUED)**

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

N/A

**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: WASH WITH SOAP AND WATER THOROUGHLY FOR AT LEAST 15 MINUTES EYES: FLUSH THOROUGHLY WITH WATER INHALATION: REMOVE TO FRESH AIR; GIVE ARTIFICIAL RESPIRATION IF BREATHING HAS STOPPED. INGESTION: IF CONSCIOUS, INDUCE VOMITING.

**THRESHOLD LIMITS / TOXICITY DATA**

ACGIH TLV/OSHA PEL (TWA): N/G. TOXICITY DATA:  
 ORL-RAT LD50: 4000 MG/KG  
 (ANHYDROUS) ORL-MUS LDLO: 40 MG/KG.  
 TOXICOLOGICAL FINDINGS:  
 NONE. CITED IN REGISTRY  
 OF TOXIC EFFECTS OF SUBSTANCES.

**SECTION 6 - REACTIVITY DATA**

**STABILITY** Unstable  Stable

**CONDITIONS TO AVOID**  
 EXTREME HEAT; EVAPORATING TO NEAR DRYNESS.

**INCOMPATIBILITY (MATERIALS TO AVOID)**

N/G

## SECTION 6 - REACTIVITY DATA (CONTINUED)

HAZARDOUS DECOMPOSITION OR BYPRODUCTS  
POX, NA2O

HAZARDOUS POLYMERIZATION May Occur  Will Not Occur   
 CONDITIONS TO AVOID  
 DATA NOT AVAILABLE.

## SECTION 7 - SPILL, LEAK, AND DISPOSAL PROCEDURES

## STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

EVACUATE THE AREA OF ALL UNNECESSARY PERSONNEL. WEAR SUITABLE PROTECTIVE EQUIPMENT LISTED UNDER EXPOSURE/PERSONNEL PROTECTION. ELIMINATE ANY IGNITION SOURCES UNTIL THE AREA IS DETERMINED 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 UNDER 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: N/G. 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 DISPOSER (TSD) TO ASSURE COMPLIANCE WITH ALL CURRENT LOCAL, STATE, AND FEDERAL REGULATIONS.

## SECTION 8 - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION  
N/G

## LOCAL VENTILATION

SEE OTHER

## MECHANICAL VENTILATION

SEE OTHER

## SPECIAL VENTILATION

SEE OTHER

**SECTION 8 - SPECIAL PROTECTION INFORMATION (CONTINUED)****OTHER VENTILATION**

MATERIAL SHOULD BE HANDLED OR TRANSFERRED IN APPROVED FUME HOOD OR WITH ADEQUATE VENTILATION.

**PROTECTIVE GLOVES**

SHOULD BE WORN TO PREVENT CONTACT (BUTYL, BUTYL RUBBER, NEOPRENE, PVC OR EQUIV.)

**EYE PROTECTION**

SAFETY GLASSES WITH SIDE SHIELDS SHOULD BE WORN AT ALL TIMES.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT**

N/G

**SECTION 9 - SPECIAL PRECAUTIONS****PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

KEEP CONTAINER CLOSED STORE AT CONTROLLED  
ROOM TEMPERATURE DO NOT BREATHE DUST  
DO NOT GET IN EYES  
AVOID PROLONGED SKIN CONTACT  
DO NOT TAKE INTERNALLY. WASH THOROUGHLY  
AFTER HANDLING. EYE WASH AND SAFETY EQUIPMENT SHOULD BE  
READILY AVAILABLE.

**SECTION 10 - OTHER INFORMATION****MISCELLANEOUS INFO.**

NMPPA HAZARD RATINGS: HEALTH .... 2  
FLAMMABILITY ...: 0 REACTIVITY : 0 SPECIAL HAZARDS.:  
N/A DOT SHIPPING NAME: NON-REGULATED  
DOT NUMBER.....: N/A  
COMMENTS: N/G. TSCA INVENTORY:  
THIS PRODUCT IS A "MIXTURE". THE CAS NUMBERS OF ALL COMPONENTS ARE  
LISTED ON THE TSCA INVENTORY. N/A = NOT AVAILABLE.  
N/E = NONE ESTABLISHED.  
N/G = NOT GIVEN.