



Curtin Matheson Scientific, Inc.  
9999 VETERANS MEMORIAL  
DOCK A  
HOUSTON, TX 77038

FISONS

# MATERIAL SAFETY DATA SHEET

MAIL TO: SCHOOLCRAFT COLLEGE  
ATTN: GERI, PURCHASING  
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

**CHEMICAL NUMBER:** MPX1165-5  
**ITEM NUMBER:** 0563536  
**VNDR CATLG NBR:**  
**ENTRY DATE:** 02-24-90  
**CHANGE DATE:** 02-24-90  
**SPECIAL REQUEST**

**COMMON NAME (ON LABEL)**  
PICRIC ACID

**CHEMICAL FAMILY**  
NITRATED AROMATIC

**TRADE NAME & SYNONYMS**  
PICRIC ACID  
2,4,6-TRINITROPHENOL

**CHEMICAL FORMULA**  
(NO<sub>2</sub>)<sub>3</sub>C<sub>6</sub>H<sub>2</sub>OH

## SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENT	CAS	% (WT)	TLV	PEL
PICRIC ACID	88-89-1	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> 300C	<b>VOLATILE BY VOLUME (%)</b> N/A	<b>VAPOR PRESSURE</b> N/A 20C
<b>MELTING POINT</b> 122C	<b>VAPOR DENSITY</b> 7.90	<b>SOLUBILITY IN WATER</b> 1.4
<b>EVAPORATION RATE (</b> N/A	<b>= 1)</b>	<b>SPECIFIC GRAVITY</b> 1.763

**APPEARANCE AND ODOR**  
PALE YELLOW, ODORLESS CRYSTALS

**OTHER PHYSICAL DATA**  
MOLECULAR WEIGHT.: 229.11

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

302F (CC)

**LOWER EXPLOSIVE LIMIT**

N/A

**UPPER EXPLOSIVE LIMIT**

N/A

**EXTINGUISHING MEDIA**

EXTINGUISHING MEDIA..... WATER FOG OR SPRAY

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

FIRE &amp; EXPL. HAZARDS.... DANGEROUS FIRE AND EXPLOSION HAZARD.

**SPECIAL FIRE FIGHTING PROCEDURES**

FIRE FIGHTING PROC..... WEAR

SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING.

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

SEE SIGNS AND SYMPTOMS OF EXPOSURE.

**PRIMARY ROUTES OF EXPOSURE**

ROUTES OF ENTRY..... INHALATION, INGESTION OR SKIN CONTACT.

**SIGNS AND SYMPTOMS OF EXPOSURE**

SYMPTOMS OF EXPOSURE ..... MAY BE

HARMFUL IF INHALED, SWALLOWED, OR ABSORBED THROUGH THE SKIN. IRRITATING ON CONTACT WITH SKIN, EYES, OR MUCOUS MEMBRANES. MAY CAUSE NAUSEA, VOMITING, DIARRHEA, SUPPRESSED URINE, IRRITATIVE DERMATITIS, DISCOLORATION OF SKIN AND CONVULSIONS.  
MAY CAUSE DAMAGE TO LIVER.

**SECTION 6 - REACTIVITY DATA (CONTINUED)****HAZARDOUS DECOMPOSITION OR BYPRODUCTS**  
HAZARDOUS DECOMPOSITION: NOX, COX

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

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

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**  
SPILL RESPONSE: TAKE UP  
AND CONTAINERIZE FOR PROPER DISPOSAL FLUSH AREA THOROUGHLY WITH  
WATER.

**WASTE DISPOSAL METHOD**  
WASTE DISPOSAL: TO BE PERFORMED IN COMPLIANCE WITH ALL CURRENT LOCAL, STATE AND  
FEDERAL REGULATIONS.

**SECTION 8 - SPECIAL PROTECTION INFORMATION**

**RESPIRATORY PROTECTION**  
VENTILATION, RESPIRATORY PROTECTION, PROTECTIVE CLOTHING, EYE PROTECTION: MATERIAL  
SHOULD BE HANDLED OR TRANSFERRED IN AN APPROVED FUME HOOD OR WITH ADEQUATE  
VENTILATION. PROTECTIVE GLOVES SHOULD BE WORN TO PREVENT SKIN  
CONTACT (NEOPRENE OR EQUIVALENT).  
SAFETY GLASSES WITH SIDE SHIELDS SHOULD BE WORN AT ALL TIMES.  
NIOSH-APPROVED RESPIRATOR SHOULD BE WORN IN THE ABSENCE OF ADEQUATE VENTILATION.

**LOCAL VENTILATION**

SEE SECTION 8 - RESPIRATORY PROTECTION

**MECHANICAL VENTILATION**

SEE SECTION 8 - RESPIRATORY PROTECTION

**SPECIAL VENTILATION**

SEE SECTION 8 - RESPIRATORY PROTECTION

## SECTION 5 - HEALTH HAZARD DATA (CONTINUED)

## MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

MEDICAL COND. AGGRAVATED BY EXP: RESPIRATORY AND LIVER CONDITIONS.

## CARCINOGENICITY

INDICATORS NOT GIVEN

NTP ☐ Yes ☐ NoIARC ☐ Yes ☐ NoOSHA ☐ Yes ☐ No

CARCINOGENICITY.....: THE

MATERIAL IS NOT LISTED AS A CANCER CAUSING AGENT.

## EMERGENCY AND FIRST AID PROCEDURES

EMERGENCY FIRST AID.....: GET

MEDICAL ATTENTION FOR ALL CASES OF OVEREXPOSURE SKIN: WASH THOROUGHLY WITH SOAP AND WATER. EYES: IMMEDIATELY FLUSH THOROUGHLY WITH WATER FOR

AT LEAST 15 MINUTES. INHALATION: REMOVE TO FRESH AIR; GIVE ARTIFICIAL RESPIRATION IF BREATHING HAS STOPPED. INGESTION:

DO NOT INDUCE VOMITING; GET IMMEDIATE MEDICAL ATTENTION. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE.

## THRESHOLD LIMITS / TOXICITY DATA

ACGIH TLV/OSHA PEL (TWA).....:

(TLV) 0.1 MG/CU.M.; STEL 0.3 MG/CU.M. (SKIN) (PEL) 0.1

MG/CU.M. (AIR) (SKIN) TOXICITY DATA.....:

ORL-GNP LDLO: 100 MG/KG.

## SECTION 6 - REACTIVITY DATA

STABILITY Unstable ☐ Stable ☐

## CONDITIONS TO AVOID

CONDITIONS TO AVOID .....: DRYNESS, HEAT, SHOCK. THE

ADDITION OF 10% WATER GREATLY DECREASES THE EXPLOSION RISK. HIGHLY EXPLOSIVE WHEN DRY; WILL DETONATE ON IMPACT.

## INCOMPATIBILITY (MATERIALS TO AVOID)

MATERIALS TO AVOID.....: ( ) WATER ( ) ACIDS (X) BASES (

( ) CORROSIVES ( ) OXIDIZERS (X) OTHER: AMMONIA, METALS,

CONCRETE REACTS TO FORM UNSTABLE, EXPLOSIVE COMPOUNDS WITH REDUCING MATERIALS.



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

SEE SECTION 8 - RESPIRATORY PROTECTION

**PROTECTIVE GLOVES**

SEE SECTION 8 - RESPIRATORY PROTECTION

**EYE PROTECTION**

SEE SECTION 8 - RESPIRATORY PROTECTION

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT**

SEE SECTION 8 - RESPIRATORY PROTECTION.

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

HANDLING &amp; STORAGE .... -CAUTION!

MATERIAL MUST BE WET AT ALL TIMES! KEEP CONTAINER TIGHTLY CLOSED.

STORE IN A COOL, WELL-VENTILATED AREA AWAY FROM

HEAT AND OTHER SOURCES OF IGNITION

DO NOT BREATHE DUST OR VAPOR. DO NOT GET

IN EYES, ON SKIN, OR ON CLOTHING. RETAINED RESIDUE MAY MAKE

EMPTY CONTAINERS HAZARDOUS; USE CAUTION!. WORK/HYGIENIC PRACTICES: WASH THOROUGHLY AFTER

HANDLING. DO NOT TAKE INTERNALLY. EYE WASH AND SAFETY EQUIPMENT SHOULD BE READILY AVAILABLE.

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

PREPARATION DATE ..... MAR 24, '88 INFORMATION PHONE

NUMBER : (609) 354-9200

HEALTH .... 2 FLAMMABILITY .... 4

REACTIVITY : 4 SPECIAL HAZARDS.

DOT SHIPPING NAME: PICRIC ACID, WET, WITH NOT LESS THAN 10% WATER. DOT

NUMBER..... NA 1344 COMMENTS.....

TESTS ON LABORATORY ANIMALS INDICATE MATERIAL

MAY PRODUCE ADVERSE MUTAGENIC EFFECTS.

N/A = NOT AVAILABLE.