



chemists helping chemists in research & industry

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DATE: 06/21/93  
CUST#: 523216  
PO#: 0E1802

M A T E R I A L S A F E E T Y D A T A S H E E T

P A G E 1

IDENTIFICATION

PRODUCT #: 25137-2  
CAS #: 88-89-1 NAME: PICRIC ACID, A.C.S. REAGENT  
MF: C6H3N3O7

SYNONYMS  
ACIDE PICRIQUE (FRENCH) \* ACIDO PICRICO (ITALIAN) \* CARBAZOTIC ACID \*  
C.I. 10305 \* 2-HYDROXY-1,3,5-TRINITROBENZENE \* KYSELINA PIKROVA  
(CZECH) \* MELINITE \* NA 1344 (DOT) \* NITROXANTHIC ACID \* PHENOL  
TRINITRATE \* PHENOL, 2,4,6-TRINITRO- \* PICRIC ACID (ACGIH, OSHA) \*  
PICRIC ACID, DRY (DOT) \* PICRIC ACID, WET, WITH NOT <10% WATER  
(NA1344) (DOT) \* PICRIC ACID, WET, WITH NOT <10% WATER, OVER 25  
POUNDS (DOT) \* PICRONITRIC ACID \* PIKRINEZUUR (DUTCH) \* PIKRINSAEURE  
(GERMAN) \* PIKRYNOWY KWAS (POLISH) \* 2,4,6-TRINITROFENOL (DUTCH) \* 2,  
4,6-TRINITROFENOL (ITALIAN) \* 1,3,5-TRINITROPHENOL \* 2,4,6-  
TRINITROPHENOL \* 2,4,6-TRINITROPHENYL (OSHA) \*

TOXICITY HAZARDS

TLV #: TJ7875000  
PICRIC ACID

TOXICITY DATA

IPR-MUS LD50:56300 UG/KG

NYKZAU 56,450,60

REVIEWS, STANDARDS, AND REGULATIONS

ACGIH TLV-TWA 0.1 MG/M3 85 INAB 5,490.1 (88),86  
MSHA STANDARD-AIR:TWA 0.1 MG/M3 (SKIN) DTLVS\* 3,212,71  
OSHA PEL:8H TWA 0.1 MG/M3 (SKIN) FEREAC 54,2923,89  
OSHA PEL FINAL:8H TWA 0.1 MG/M3 (SKIN) FEREAC 54,2923,89  
OEL-AUSTRALIA:TWA 0.1 MG/M3;STEL 0.3 MG/M3;SKIN JANUARY 1993  
OEL-BELGIUM:TWA 0.1 MG/M3;STEL 0.3 MG/M3;SKIN JANUARY 1993  
OEL-DENMARK:TWA 0.1 MG/M3;SKIN JANUARY 1993  
OEL-FINLAND:TWA 0.1 MG/M3;STEL 0.3 MG/M3;SKIN JANUARY 1993  
OEL-FRANCE:TWA 0.1 MG/M3;SKIN JANUARY 1993  
OEL-GERMANY:TWA 0.1 MG/M3;SKIN JANUARY 1993  
OEL-HUNGARY:TWA 0.1 MG/M3;STEL 0.2 MG/M3;SKIN JANUARY 1993  
OEL-THE NETHERLANDS:TWA 0.1 MG/M3;SKIN JANUARY 1993  
OEL-THE PHILIPPINES:TWA 0.1 MG/M3;SKIN JANUARY 1993  
OEL-POLAND:TWA 0.1 MG/M3 JANUARY 1993  
OEL-SWITZERLAND:TWA 0.1 MG/M3;STEL 0.2 MG/M3;SKIN JANUARY 1993  
OEL-TURKEY:TWA 0.1 MG/M3;SKIN JANUARY 1993  
OEL-UNITED KINGDOM:TWA 0.1 MG/M3;STEL 0.3 MG/M3;SKIN JANUARY 1993  
OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA, NEW ZEALAND, SINGAPORE,  
VIETNAM CHECK ACGIH TLV  
NIOSH REL TO PICRIC ACID-AIR:TWA 0.1 MG/M3 (SK);STEL 0.3 MG/M3 (SK)

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M A T E R I A L S A F E T Y D A T A S H E E T

PAGE 2

CUST#: 523216  
PO#: QE1802

PRODUCT #:

NAME: PICRIC ACID, A.C.S. REAGENT

MF: C6H3N3O7

--- TOXICITY HAZARDS ---

NIOSH\* DHHS #92-100,92  
NOHS 1974: HZD 59450; NIS 17; TNF 2097; NOS 14; TNE 21627  
NOES 1983: HZD 59450; NIS 20; TNF 2224; NOS 26; TNE 37003; TFE 21627  
EPA GENETOX PROGRAM 1988, INCONCLUSIVE: D MELANOGASTER SEX-LINKED  
LETHAL  
EPA TSCA CHEMICAL INVENTORY, JUNE 1990  
EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, JANUARY 1993

**TARGET ORGAN DATA**

BEHAVIORAL (CONVULSIONS OR EFFECT ON SEIZURE THRESHOLD)  
CARDIAC (PULSE RATE DECREASED WITH FALL IN BP)  
LUNGS, THORAX OR RESPIRATION (RESPIRATORY DEPRESSION)  
LUNGS, THORAX OR RESPIRATION (OTHER CHANGES)  
GASTROINTESTINAL (HYPERMOTILITY, DIARRHEA)  
NUTRITIONAL AND GROSS METABOLIC (BODY TEMPERATURE INCREASE)  
ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES  
(RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR  
COMPLETE INFORMATION.

--- HEALTH HAZARD DATA ---

**ACUTE EFFECTS**

HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN.  
CAUSES EYE AND SKIN IRRITATION.  
MATERIAL IS IRRITATING TO MUCOUS MEMBRANES AND UPPER  
RESPIRATORY TRACT.  
MAY CAUSE ALLERGIC RESPIRATORY AND SKIN REACTIONS.  
MAY CAUSE DISCOLORATION OF THE SKIN.  
TARGET ORGAN(S):  
BLOOD  
KIDNEYS  
LIVER

**FIRST AID**

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES OR SKIN WITH COPIOUS  
AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED  
CLOTHING AND SHOES.  
IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL

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**M A T E R I A L S A F E E T Y D A T A S H E E T**

**PAGE 3**

CUST#: 523216  
PO#: QE1802

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NAME: PICRIC ACID, A.C.S. REAGENT

MF: C6H3N3O7

**HEALTH HAZARD DATA**

RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.  
IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.  
CALL A PHYSICIAN.  
WASH CONTAMINATED CLOTHING BEFORE REUSE.

**ADDITIONAL INFORMATION**

PICRIC ACID DUST CAUSES SENSITIZATION DERMATITIS. THIS USUALLY OCCURS ON THE FACE, ESPECIALLY AROUND THE MOUTH AND THE SIDES OF THE NOSE; THE CONDITION PROGRESSES FROM EDEMA, THROUGH THE FORMATION OF PAPULES AND VESICLES, TO ULTIMATE DESQUAMATION. INHALATION OF HIGH CONCENTRATIONS OF DUST HAS CAUSED UNCONSCIOUSNESS, WEAKNESS, MUSCLE PAIN, AND KIDNEY PROBLEMS. SWALLOWING PICRIC ACID MAY CAUSE A BITTER TASTE, HEADACHE, DIZZINESS, NAUSEA, VOMITING, AND DIARRHEA. HIGH DOSES MAY CAUSE DESTRUCTION OF THE RED BLOOD CELLS AND DAMAGE TO THE KIDNEYS AND LIVER WITH BLOOD IN THE URINE.

**PHYSICAL DATA**

MELTING POINT: 121 C TO 123 C  
VAPOR DENSITY: 7.9  
VAPOR PRESSURE: 1 MM @ 195 C

APPEARANCE AND ODOR  
MOIST YELLOW POWDER

**FIRE AND EXPLOSION HAZARD DATA**

**EXTINGUISHING MEDIA**

WATER SPRAY.  
CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.

**SPECIAL FIREFIGHTING PROCEDURES**

WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.  
FLAMMABLE SOLID.  
USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS.

**UNUSUAL FIRE AND EXPLOSIONS HAZARDS**

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**F I R E A N D E X P L O S I O N H A Z A R D D A T A**

EMITS TOXIC FUMES UNDER FIRE CONDITIONS.  
MAY EXPLODE WHEN HEATED.  
MAY BE SHOCK-SENSITIVE.

**R E A C T I V I T Y D A T A**

**C O N D I T I O N S T O A V O I D**

HEAT  
AVOID CONTACT WITH METALS.

**I N C O M P A T I B I L I T I E S**

STRONG OXIDIZING AGENTS  
STRONG BASES  
REDUCING AGENTS  
HEAVY METALS  
HEAVY METAL SALTS  
AMMONIA

**H A Z A R D O U S C O M B U S T I O N O R D E C O M P O S I T I O N P R O D U C T S**

TOXIC FUMES OF:  
CARBON MONOXIDE, CARBON DIOXIDE  
NITROGEN OXIDES

**S P I L L O R L E A K P R O C E D U R E S**

**S T E P S T O B E T A K E N I F M A T E R I A L I S R E L E A S E D O R S P I L L E D**

EVACUATE AREA.  
WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY RUBBER GLOVES.  
SWEEP UP, PLACE IN A BAG AND HOLD FOR WASTE DISPOSAL.  
AVOID RAISING DUST.  
VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

**W A S T E D I S P O S A L M E T H O D**

CONTACT A LICENSED PROFESSIONAL WASTE DISPOSAL SERVICE TO DISPOSE OF THIS MATERIAL.  
OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

**P R E C A U T I O N S T O B E T A K E N I N H A N D L I N G A N D S T O R A G E**

WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.

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== == PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE == ==

SAFETY SHOWER AND EYE BATH.  
USE ONLY IN A CHEMICAL FUME HOOD.  
DO NOT BREATHE DUST.  
AVOID CONTACT WITH EYES, SKIN AND CLOTHING.  
AVOID PROLONGED OR REPEATED EXPOSURE.  
READILY ABSORBED THROUGH SKIN.  
WASH THOROUGHLY AFTER HANDLING.

TOXIC.  
IRRITANT.  
SENSITIZER.  
MATERIAL MUST BE WET AT ALL TIMES.  
KEEP TIGHTLY CLOSED.  
KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME.  
STORE IN A COOL DRY PLACE.

ADDITIONAL PRECAUTIONARY STATEMENTS  
FLAMMABLE (USA DEFINITION)  
HIGHLY FLAMMABLE (EUROPEAN DEFINITION)

TOXIC  
EXPLOSIVE WHEN DRY.  
RISK OF EXPLOSION BY SHOCK, FRICTION, FIRE OR OTHER SOURCES OF  
IGNITION.

FORMS VERY SENSITIVE EXPLOSIVE METALLIC COMPOUNDS.  
TOXIC BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.  
SENSITIZER.

CAUSES IRRITATION.  
TARGET ORGAN(S):

BLOOD  
KIDNEYS

AVOID CONTACT WITH METALS.  
KEEP CONTAINER TIGHTLY CLOSED.  
KEEP AWAY FROM SOURCES OF IGNITION. NO SMOKING.  
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF  
WATER AND SEEK MEDICAL ADVICE.  
WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE  
PROTECTION.

REGULATORY INFORMATION

THIS PRODUCT IS SUBJECT TO SARA SECTION 313 REPORTING REQUIREMENTS.

== == ADDITIONAL PRECAUTIONS AND COMMENTS == ==

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PAGE 6

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--- ADDITIONAL PRECAUTIONS AND COMMENTS ---

**ADDITIONAL INFORMATION**

PICRIC ACID FORMS SALTS WITH MANY METALS SOME OF WHICH ARE RATHER SENSITIVE TO HEAT, FRICTION OR IMPACT, E.G., LEAD, IRON, ZINC, NICKEL, COPPER, ETC. AND SHOULD BE CONSIDERED DANGEROUSLY SENSITIVE. THE SALTS FORMED WITH AMMONIA AND AMINES, AND THE MOLECULAR COMPLEXES WITH AROMATIC HYDROCARBONS, ETC, ARE IN GENERAL NOT SO SENSITIVE. CONTACT OF PICRIC ACID WITH CONCRETE FLOORS MAY FORM THE FRICTION-SENSITIVE CALCIUM SALT. DRY MIXTURES OF PICRIC ACID AND ALUMINUM POWDER ARE INERT, BUT THE ADDITION OF WATER CAUSES IGNITION AFTER A DELAY DEPENDENT UPON THE QUANTITY ADDED. STORAGE CONDITIONS: RECORDS OF PURCHASE DATES SHOULD BE MAINTAINED FOR EACH CONTAINER. MATERIAL OLDER THAN 2 YEARS SHOULD BE DISPOSED. INSPECT AND ADD WATER EVERY SIX MONTHS AS NEEDED. ROTATE CONTAINERS TO DISTRIBUTE WATER EVERY THREE MONTHS.

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. ALDRICH SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT. SEE REVERSE SIDE OF INVOICE OR PACKING SLIP FOR ADDITIONAL TERMS AND CONDITIONS OF SALE.

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