

FREY SCIENTIFIC -- POTASSIUM IODATE -- 6810-00-136-6700

===== Product Identification =====

Product ID:POTASSIUM IODATE

MSDS Date:11/21/1995

FSC:6810

NIIN:00-136-6700

MSDS Number: CDFZB

=== Responsible Party ===

Company Name:FREY SCIENTIFIC

Address:905 HICKORY LANE

City:MANSFIELD

State:OH

ZIP:44905

Country:US

Info Phone Num:419-589-1900

Emergency Phone Num:716-226-6177/800-424-9300(CHEMTREC)

Prepa

rer's Name:MICHAEL RASZEJA

CAGE:6U218

=== Contractor Identification ===

Company Name:FREY SCIENTIFIC

Address:100 PARAGON PARKWAY

Box:City:MANSFIELD

State:OH

ZIP:44905

Country:US

Phone:419-589-1900

CAGE:6U218

===== Composition/Information on Ingredients =====

Ingred Name:POTASSIUM IODATE,

CAS:7758-05-6

RTECS #:NN1350000

Fraction by Wt: 100%

Other REC Limits:NONE RECOMMENDED

===== Hazards Identification =====

LD50 LC50 Mixture:LD50 (ORAL, MAL

E RAT) IS 675 MG/KG.

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:TARGET ORGANS:EYES, SKIN, CNS,  
RESPIRATORY AND GI TRACTS. ACUTE- MAY CAUSE EYE IRRITATION,  
SWELLING, REDNESS. MAY CAUSE CNS PARALYSIS. MAY CAUSE LUNG  
CONGESTION. HARMFUL IF INGESTED. MODERATELY TOXIC VIA ORAL ROUTE.  
MAY CAUSE DRY SKIN AND IRRITATION. CHRONIC- UNKNOWN.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:

IRRITATION, NAUSEA, VOMITING, DIARRHEA,  
DRYNESS, REDNESS, SWELLING, HEADACHE

Medical Conditions Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN  
DISORDERS OR EYE PROBLEMS OR IMPAIRED RESPIRATORY FUNCTION MAY BE  
MORE SUSCEPTIBLE TO THE EFFECTS OF THE SUBSTANCE.

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===== First Aid Measures =====

First Aid:CALL A DOCTOR IF SYMPTOMS PERSIST. EYE:IMMEDIATELY FLUSH WITH  
WATER FOR 15 MINUTES, HOLDING EYELIDS OPEN. SKIN:WASH WITH SOAP &  
WATER

INHALED:REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED.

ORAL:IF CONSCIOUS, DRINK 1-2 GLASSES OF WATER& INDUCE VOMITING.  
CALL A PHYSICIAN/POISON CONTROL CENTER IMMEDIATELY. NEVER GIVE  
FLUID OR INDUCE VOMITING IF PATIENT IS UNCONSCIOUS OR HAS  
CONVULSIONS.

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===== Fire Fighting Measures =====

Flash Point:NONE

Lower Limits:NOT RELEVANT

Upper Limits:NOT RELEVANT

Extinguishing Media:USE CARBON DIOXIDE, SAND, FOAM/DRY CHEMICAL. WATER  
SPRAY MAY BE USED TO KEEP FIRE EXPOSED CONTAINERS COOL.

Fire Fighting Procedures:WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED

SELF-CONTAINED BREATHING APPARATUS. SEE 1993 EMERGENCY RESPONSE  
GUIDEBOOK, DOT P 5800.6, GUIDE NO 35.

Unusual Fire/Explosion Hazard:INCREASES INTENSITY OF FIRE WHEN IN  
CONTACT WITH COMBUSTIBLE MATERIALS. MAY FORM FUMES OF IODINE,  
HYDROGEN IODIDE AND POTASSIUM OXIDE.

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===== Accidental Release Measures =====

Spill Release Procedures:WEAR

PROTECTIVE EQUIPMENTS. VENTILATE AREA.  
CAREFULLY SWEEP UP AND PLACE IN A SUITABLE CONTAINER FOR DISPOSAL.  
AVOID RAISING DUST. DO NOT FLUSH INTO SEWER OR WATERWAYS.  
Neutralizing Agent:REDUCING AGENTS

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Handling and Storage  
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Handling and Storage Precautions:STORE IN COOL, DRY PLACE AWAY FROM  
INCOMPATIBLE MATERIALS. AVOID CONTACT WITH CLOTHINGS.  
Other Precautions:DO NOT GET IN EYES OR ON SKIN. DO NOT GENERATE DUST.  
DO NOT BREATHE DUST,  
MIST OR FUMES. KEEP OUT OF REACH OF CHILDREN.  
DO NOT TAKE INTERNALLY. WASH THOROUGHLY AFTER HANDLING AND BEFORE  
EATING AND DRINKING. FOR LABORATORY USE ONLY.

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Exposure Controls/Personal Protection  
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Respiratory Protection:FOR CONDITIONS WHERE EXPOSURE TO DUST OR FUMES  
IS APPARENT, A NIOSH APPROVED RESPIRATOR FOR DUST MAY BE WORN. IN  
EMERGENCY, WEAR SELF-CONTAINED BREATHING APPARATUS OPERATED IN  
POSITIVE PRESSURE MODE.  
Ventilation:PROVIDE SUFFICIENT MECHANICAL (GENERAL AND/OR LOCAL  
EXHAUST) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).  
Protective Gloves:RUBBER  
Eye Protection:DUST-RESISTANT SAFETY GOGGLES  
Other Protective Equipment:APPROPRIATE PROTECTIVE (IMPERVIOUS) CLOTHING  
AND EQUIPMENT, EYEWASH FOUNTAIN, EMERGENCY SHOWER  
Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND  
RECOMMENDED PROCEDURES.  
Supplemental Safety and Health

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Physical/Chemical Properties  
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HCC:D1  
NRC  
/State Lic Num:NOT RELEVANT  
Melt/Freeze Pt:M.P/F.P Text:DECOMPOSES  
Decomp Temp:Decomp Text:1040F,560C  
Spec Gravity:3.9  
Viscosity:NOT RELEVANT  
Evaporation Rate & Reference:NOT RELEVANT  
Solubility in Water:4.52% @ 32F (0C)  
Appearance and Odor:WHITE CRYSTALS OR POWDER - POSSIBLE SLIGHT ACRID  
ODOR  
Percent Volatiles by Volume:100

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Stability and Reactivity Data  
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Stability Indicator/Materials to Avoid:YES  
ORGANIC MATERIALS, COMBUSTIBLES, STRONG REDUCING AGENTS

NTS, ALUMINUM,

ARSENIC, CARBON, COPPER, SULFUR OR PHOSPHORUS

Stability Condition to Avoid: EXCESSIVE HEAT (>560C/1040F)

Hazardous Decomposition Products: MAY FORM TOXIC FUMES OF IODINE,  
HYDROGEN IODIDE, OXIDES OF POTASSIUM.

===== Disposal Considerations =====

Waste Disposal Methods: DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE  
AND FEDERAL REGULATIONS. CONTRACT WITH A LICENSED WASTE DISPOSAL  
SERVICE.

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