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DATE: 08/08/90 ACCT: 728880-01 INDEX: 05892690942 CAT NO: C337500

PO NBR: N/A

CHROMIC POTASSIUM SULFATE, DODECAHYDRATE
CHROMIC POTASSIUM SULFATE, DODECAHYDRATE
CHROMIC POTASSIUM SULFATE, DODECAHYDRATE

MATERIAL SAFETY DATA SHEET

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SUBSTANCE IDENTIFICATION

CAS-NUMBER 7788-99-0

SUBSTANCE: **CHROMIC POTASSIUM SULFATE, DODECAHYDRATE**

TRADE NAMES/SYNONYMS:
CHROMIC ALUM; POTASSIUM CHROMIUM ALUM;
CHROMIUM(III) POTASSIUM SULFATE, DODECADRATE;
SULFURIC ACID, CHROMIUM(3+) POTASSIUM SALT (2:1:1), DODECAHYDRATE;
ACC1 9330

CHEMICAL FAMILY: INORGANIC SALT

MOLECULAR FORMULA: CR-K-08-52 12H20

MOLECULAR WEIGHT: 499.0

CERCLA RATINGS (SCALE 0-3): HEALTH:3 FIRE:0 REACTIVITY:0 PERSISTENCE:3 NFPA RATINGS (SCALE 0-4): HEALTH:3 FIRE:0 REACTIVITY:0

COMPONENTS AND CONTAMINANTS

COMPONENT: CHROMIC POTASSIUM SULFATE CAS# 7788-99-0 PERCENT: 100

OTHER CONTAMINANTS: NONE

EXPOSURE LIMITS:

0.5 MG(CR)/M3 OSHA TWA; 0.5 MG(CR)/M3 ACGIH TWA

PHYSICAL DATA

DESCRIPTION: LARGE VIOLET-RED TO BLACK OCTAHEDRAL, CUBIC CRYSTALS

BOILING POINT: '752 F (400 C) SUBLIMES MELTING POINT: 192 F (89 C)

SPECIFIC GRAVITY: 1.8 SOLUBILITY IN WATER: 19.6%

SOLVENT SOLUBILITY: PRACTICALLY INSOLUBLE IN ALCOHOL

FIRE AND EXPLOSION DATA

FIRE AND EXPLOSION HAZARD: NEGLIGIBLE FIRE HAZARD WHEN EXPOSED TO HEAT OR FLAME.

FLASH POINT: NON-FLAMMABLE

FIREFIGHTING MEDIA: DRY CHEMICAL, CARBON DIOXIDE, HALON, WATER SPRAY OR STANDARD FOAM (1987 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.4).

FOR LARGER FIRES, USE WATER SPRAY, FOG OR STANDARD FOAM (1987 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.4).

FIREFIGHTING:
MOVE CONTAINER FROM FIRE AREA IF POSSIBLE, DO NOT SCATTER SPILLED MATERIAL
WITH HIGH PRESSURE WATER STREAMS. DIKE FIRE CONTROL WATER FOR LATER DISPOSAL
(1987 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.4, GUIDE PAGE 31).

USE AGENTS SUITABLE FOR TYPE OF SURROUNDING FIRE, AVOID BREATHING HAZARDOUS VAPORS, KEEP UPWIND.

TOXICITY

CHROMIC POTASSIUM SULFATE, DODECAHYDRATE:

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112 MG/KG INTRAVENOUS-RAT LD50; TUMORIGENIC DATA (RTECS).
CARCINOGEN STATUS: HUMAN INADEQUATE EVIDENCE, ANIMAL INADEQUATE EVIDENCE
(IARC GROUP-3 FOR TRIVALENT CHROMIUM COMPOUNDS).
CHROMIC POTASSIUM SULFATE, DODECAHYDRATE IS A SOLUBLE CHROMIUM COMPOUND
WHICH EXHIBITS NO SIGNIFICANT SYSTEMIC TOXICITY, NO SPECIFIC EFFECTS ARE KNOWN
TO RESULT FROM INHALATION OR INGESTION, SENSITIZATION DERMATITIS MAY OCCUR IN PREVIOUSLY EXPOSED INDIVIDUALS.

HEALTH EFFECTS AND FIRST AID

INHALATION:

CHROMIC POTASSIUM SULFATE, DODECAHYDRATE:
IRRITANT, 250 MG(CR)/M3 IMMEDIATELY DANGEROUS TO LIFE OR HEALTH,
ACUTE EXPOSURE- THE DUST IS IRRITATING TO THE NOSE AND THROAT AND MAY CAUSE
COUGHING OR DIFFICULTY IN BREATHING IN LARGE CONCENTRATIONS.

CHRONIC EXPOSURE- NO EFFECTS KNOWN IN HUMANS.

RST AID- REMOVE FROM EXPOSURE AREA TO FRESH AIR IMMEDIATELY. IF BREATHING HAS STOPPED, PERFORM ARTIFICIAL RESPIRATION, KEEP PERSON WARM AND AT REST. TREAT SYMPTOMATICALLY AND SUPPORTIVELY. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT:

CHROMIC POTASSIUM SULFATE, DODECAHYDRATE: IRRITANT/SENSITIZER

ACUTE EXPOSURE- CONTACT MAY RESULT IN IRRITATION AND REDNESS, SENSITIZ
DERMATITS MAY OCCUR IN PREVIOUSLY EXPOSED INDIVIDUALS, SENSITIZATION

CHRONIC EXPOSURE- REPEATED OR PROLONGED CONTACT MAY CAUSE DERMATITIS.

RST AID- REMOVE CONTAMINATED CLOTHING AND SHOES IMMEDIATELY. WASH AFFEC AREA WITH SOAP OR MILD DETERGENT AND LARGE AMOUNTS OF WATER UNTIL NO EVIDENCE OF CHEMICAL REMAINS (APPROXIMATELY 15-20 MINUTES). GET MEDICAL FIRST AID-WASH AFFECTED ATTENTION IMMEDIATELY.

EYE CONTACT:

CHROMIC POTASSIUM SULFATE, DODECAHYDRATE:

IRRITANT,

EXPOSURE- PARTICULATES IN THE EYE MAY CAUSE LACRIMATION AND IRRITATION.

CHRONIC EXPOSURE- NO EFFECTS KNOWN IN HUMANS.

FIRST AID- WASH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER OR NORMAL SALINE, OCCASIONALLY LIFTING UPPER AND LOWER LIDS, UNTIL NO EVIDENCE OF CHEMICAL REMAINS (APPROXIMATELY 15-20 MINUTES). GET MEDICAL ATTENTION IMMEDIATELY.

INGESTION:

CHROMIC POTASSIUM SULFATE, DODECAHYDRATE:
ACUTE EXPOSURE- WHEN TAKEN BY MOUTH, THIS TRIVALENT CHROMIUM COMPOUND
NORMALLY DOES NOT GIVE RISE TO LOCAL OR SYSTEMIC EFFECTS AND IS POORLY
ABSORBED INTO THE BODY. CHRONIC EXPOSURE- NOT REPORTED IN HUMANS.

RST AID- IF PERSON IS CONSCICUS, GIVE LARGE AMOUNTS OF WATER. TREAT SYMPTOMATICALLY AND SUPPORTIVELY. GET MEDICAL ATTENTION.

ANTIDOTE:

NO SPECIFIC ANTIDOTE. TREAT SYMPTOMATICALLY AND SUPPORTIVELY,

REACTIVITY

REACTIVITY:

STABLE UNDER NORMAL TEMPERATURES AND PRESSURES.

DECOMPOSITION:

THERMAL DECOMPOSITION MAY RELEASE TOXIC OXIDES OF SULFUR

POLYMERIZATION:
HAZARDOUS POLYMERIZATION HAS NOT BEEN REPORTED TO OCCUR UNDER NORMAL
TEMPERATURES AND PRESSURES.

STORAGE AND DISPOSAL

OBSERVE ALL FEDERAL, STATE AND LOCAL REGULATIONS WHEN STORING OR DISPOSING OF THIS SUBSTANCE, FOR ASSISTANCE, CONTACT THE DISTRICT DIRECTOR OF THE ENVIRONMENTAL PROTECTION AGENCY.

SPILL AND LEAK PROCEDURES

SPILL SOIL

DIG HOLDING AREA SUCH AS LAGOON, POND OR PIT FOR CONTAINMENT.

USE PROTECTIVE COVER SUCH AS A PLASTIC SHEET TO PREVENT MATERIAL FROM DISSOLVING IN FIRE EXTINGUISHING WATER OR RAIN.

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WATER SPILL: USE ACTIVATED CARBON TO ABSORB SPILLED SUBSTANCE THAT IS DISSOLVED.

USE SUCTION HOSES TO REMOVE TRAPPED SPILL MATERIAL.

USE MECHANICAL DREDGES OR LIFTS TO EXTRACT IMMOBILIZED MASSES OF POLLUTION AND PRECIPITATES.

OCCUPATIONAL SPILL: NO SPECIAL PRECAUTIONS INDICATED.

PROTECTIVE EQUIPMENT

VENTILATION: PROVIDE LOCAL EXHAUST VENTILATION AND/OR GENERAL DILUTION VENTILATION TO MEET PUBLISHED EXPOSURE LIMITS.

RESPIRATOR: CHROMIUM:

5 MG(CR)/M3+ DUST AND MIST RESPIRATOR.

10 MG(CR)/M3- DUST AND MIST RESPIRATOR (EXCEPT SINGLE-USE AND QUARTER-MASK RESPIRATORS), FUME OR HIGH-EFFICIENCY PARTICULATE RESPIRATOR. SUPPLIED-AIR RESPIRATOR, SELF-CONTAINED BREATHING APPARATUS.

50 MG(CR)/M3- HIGH-EFFICIENCY PARTICULATE RESPIRATOR WITH A FULL FACEPIECE. SUPPLIED-AIR RESPIRATOR WITH A FULL FACEPIECE, HELMET OR HOOD. SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE.

ESCAPE- POWERED-AIR PURIFYING RESPIRATOR WITH A HIGH-EFFICIENCY
PARTIULATE FILTER.
TYPE 'C' SUPPLIED-AIR RESPIRATOR.
SUPPLIED-AIR RESPIRATOR OPERATED IN PRESSURE-DEMAND, POSITIVE
PRESSURE, OR CONTINUOUS-FLOW MODE.

CLOTHING: PROTECTIVE CLOTHING NOT REQUIRED. AVOID REPEATED OR PROLONGED CONTACT WITH THIS SUBSTANCE.

GLOVES: PROTECTIVE GLOVES ARE NOT REQUIRED BUT RECOMMENDED.

EYE PROTECTION: EYE PROTECTION NOT REQUIRED, BUT ADVISABLE.

> AUTHORIZED - FISHER SCIENTIFIC GROUP, INC. CREATION DATE: 12/04/84 REVISION DATE: 07/12/90

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