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IMPORTANT SAFETY INFORMATION -- DO NOT DISCARD.
PLEASE ROUTE TO COMPANY SAFETY OFFICER.

FISHER SCIENTIFIC HAS A COMPLETE LINE OF SAFETY PRODUCTS AND INFORMATION FOR THE LABORATORY. CONTACT YOUR LOCAL FISHER BRANCH FOR FILMS, BROCHURES, CATALOGS AND PRODUCTS.

SYRACUSE CITY
SCHOOL DISTRICT
725 HARRISON ST
SYRACUSE NY 13210

IF NAME AND/OR ADDRESS HAVE CHANGED, CONTACT YOUR FISHER SALES REPRESENTATIVE OR LOCAL FISHER BRANCH.

FOR EACH CHEMICAL, AN MSDS SHEET WILL BE SENT ONLY ON THE 1ST SHIPMENT UNLESS A SUBSTANTIAL REVISION OCCURS.

REQUIRED MATERIAL SAFETY DATA SHEETS (MSDS) NOT INCLUDED IN THIS MAILING WILL FOLLOW UNDER SEPARATE COVER.

THIS PACKET MAY CONTAIN MSDS FOR PRODUCTS MANUFACTURED BY OTHERS AND DISTRIBUTED BY FISHER SCIENTIFIC COMPANY. THESE MSDS WERE PREPARED BY THE MANUFACTURER AND FISHER DISCLAIMS ALL LIABILITY FOR THE CONTENT.

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* ATTENTION: *
* IN RESPONSE TO FISHER CUSTOMER REQUESTS! *
* * EASIER TO READ *
* * BINDER COMPATIBLE *
* * LATEST REVISION (DISCARD OLD MSDS) *
* * CONTAINS LATEST REGULATORY INFORMATION *
* PROPOSITION 65 *
* SARA SECTION 313 TITLE III *
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POTASSIUM DICHROMATE
POTASSIUM DICHROMATE
POTASSIUM DICHROMATE



MATERIAL SAFETY DATA SHEET

FISHER SCIENTIFIC
CHEMICAL DIVISION
1 REAGENT LANE
FAIR LAWN NJ 07410
(201) 796-7100

EMERGENCY CONTACTS:
GASTON L. PILLORI; (201) 796-7100
AFTER BUSINESS HOURS; HOLIDAYS:
(201) 796-7523
CHEMTREC ASSISTANCE: (800) 424-9300

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SUBSTANCE IDENTIFICATION

SUBSTANCE: ***POTASSIUM DICHROMATE***

CAS-NUMBER 7778-50-9

TRADE NAMES/SYNONYMS:

DICHROMIC ACID; DIPOTASSIUM SALT; POTASSIUM BICHROMATE;
DIPOTASSIUM DICHROMATE; BICHROMATE OF POTASH; POTASSIUM DICHROMATE (VI);
RED POTASSIUM CHROMATE; IOPEZITE; CHROMIC ACID; DIPOTASSIUM SALT; P186;
P188; ACC19370

CHEMICAL FAMILY:
INORGANIC SALT

MOLECULAR FORMULA: CR2-K2-O7

MOLECULAR WEIGHT: 294.20

CERCLA RATINGS (SCALE 0-3): HEALTH=3 FIRE=0 REACTIVITY=0 PERSISTENCE=3
NFPA RATINGS (SCALE 0-4): HEALTH=1 FIRE=0 REACTIVITY=0

COMPONENTS AND CONTAMINANTS

COMPONENT: POTASSIUM DICHROMATE
CAS# 7778-50-9

PERCENT: 100

OTHER CONTAMINANTS: NONE

EXPOSURE LIMITS:

CHROMIC ACID AND CHROMATES:

0.1 MG(CRO3)/M3 OSHA CEILING

0.05 MG(CR)/M3 ACGIH TWA

25 UG(CR(VI))/M3 NIOSH RECOMMENDED 10 HOUR TWA;

50 UG(CR(VI))/M3 NIOSH RECOMMENDED 15 MINUTE CEILING

SUBJECT TO SARA SECTION 313 ANNUAL TOXIC CHEMICAL RELEASE REPORTING
SUBJECT TO CALIFORNIA PROPOSITION 65 CANCER AND/OR REPRODUCTIVE TOXICITY
WARNING AND RELEASE REQUIREMENTS (HEXAVALENT CHROMIUM COMPOUNDS)
(FEBRUARY 27, 1987)

POTASSIUM DICHROMATE:

10 POUNDS CERCLA SECTION 103 REPORTABLE QUANTITY

PHYSICAL DATA

DESCRIPTION: ODORLESS, BRIGHT ORANGE-RED CRYSTALS, WITH BITTER, METALLIC TASTE

BOILING POINT: 932 F (500 C) DECOMPOSES MELTING POINT: 748 F (398 C)

SPECIFIC GRAVITY: 2.68 @ 25 C PH: (1% SOLUTION) 4.04

SOLUBILITY IN WATER: 4.9% @ 0 C

FIRE AND EXPLOSION DATA

FIRE AND EXPLOSION HAZARD:

NEGLIGIBLE FIRE HAZARD WHEN EXPOSED TO HEAT OR FLAME.

OXIDIZER: OXIDIZERS DECOMPOSE, ESPECIALLY WHEN HEATED, TO YIELD OXYGEN OR OTHER GASES WHICH WILL INCREASE THE BURNING RATE OF COMBUSTIBLE MATTER. CONTACT WITH EASILY OXIDIZABLE, ORGANIC, OR OTHER COMBUSTIBLE MATERIALS MAY RESULT IN IGNITION, VIOLENT COMBUSTION OR EXPLOSION.

FIREFIGHTING MEDIA:

DRY CHEMICAL, CARBON DIOXIDE, HALON OR WATER SPRAY

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(1987 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.4).

FOR LARGER FIRES, USE WATER SPRAY OR FOG
(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.

TRANSPORTATION DATA

DEPARTMENT OF TRANSPORTATION HAZARD CLASSIFICATION 49 CFR 172.101:
ORM-A

DEPARTMENT OF TRANSPORTATION LABELING REQUIREMENTS 49 CFR 172.101 AND
SUBPART E:
NONE

DEPARTMENT OF TRANSPORTATION PACKAGING REQUIREMENTS: 49 CFR 173.510
EXCEPTIONS: 49 CFR 173.505

TOXICITY

POTASSIUM DICHROMATE:

TOXICITY DATA: 26 MG/KG ORAL-CHILD LDLO; 190 MG/KG ORAL-MOUSE LD50;
2829 MG/KG ORAL-DOG LDLO; 163 MG/KG ORAL-GUINEA PIG LDLO; 27900 UG/KG
INTRAVENOUS-RABBIT LDLO; 100 MG/KG SUBCUTANEOUS-MOUSE LDLO; 10 MG/KG
SUBCUTANEOUS-RABBIT LDLO; 29400 UG/KG SUBCUTANEOUS-GUINEA PIG LDLO;
37 MG/KG INTRAPERITONEAL-MOUSE LD50; 40 MG/KG SUBCUTANEOUS-MONKEY LDLO;
MUTAGENIC DATA (RTECS); REPRODUCTIVE EFFECTS DATA (RTECS).

CARCINOGEN STATUS: KNOWN HUMAN CARCINOGEN (NTP); ANIMAL INADEQUATE EVIDENCE
(FOR POTASSIUM DICHROMATE), HUMAN SUFFICIENT EVIDENCE, ANIMAL SUFFICIENT
EVIDENCE (IARC GROUP-1 FOR HEXAVALENT CHROMIUM COMPOUNDS).
AN INCREASED INCIDENCE OF LUNG CANCER IN PERSONS OCCUPATIONALLY
EXPOSED DURING CHROMATE PRODUCTION, PIGMENT MANUFACTURING AND PLATING
AND ALLOYING PROCESSES. INCIDENCES OF CANCERS AT OTHER SITES
MAY ALSO BE INCREASED IN SUCH PERSONS. HOWEVER, A CLEAR DISTINCTION
BETWEEN THE RELATIVE CARCINOGENICITY OF CHROMIUM COMPOUNDS OF DIFFERENT
OXIDATION STATES OR SOLUBILITIES HAS BEEN DIFFICULT TO ACHIEVE.

LOCAL EFFECTS: CORROSIVE- INHALATION, SKIN, EYES, AND INGESTION.

ACUTE TOXICITY LEVEL: TOXIC BY INGESTION.

TARGET EFFECTS: SENSITIZER- SKIN.

HEALTH EFFECTS AND FIRST AID

INHALATION:

POTASSIUM DICHROMATE:

CORROSIVE. 30 MG(CRO3)/M3 IMMEDIATELY DANGEROUS TO LIFE OR HEALTH.
ACUTE EXPOSURE- EXPOSURE TO CHROMIUM DUST AND/OR VAPORS MAY CAUSE NASAL
IRRITATION, LUNG IRRITATION, COUGHING, LABORED BREATHING, WHEEZING, CHEST
PAIN, ULCERATION AND PERFORATION OF THE NASAL SEPTUM, PULMONARY EDEMA,
JAUNDICE, AND LIVER AND KIDNEY DAMAGE.

CHRONIC EXPOSURE- EROSION AND DISCOLORATION OF THE TEETH, PAINLESS
ULCERATION OF THE NASAL SEPTUM, NOSE BLEEDS AND FOUL NASAL DISCHARGE MAY
OCCUR. PERFORATED EARDRUMS, KIDNEY DAMAGE, HEPATITIS WITH JAUNDICE AND
LUNG CANCER MAY ALSO OCCUR.

FIRST 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:

POTASSIUM DICHROMATE:

CORROSIVE/SENSITIZER.

ACUTE EXPOSURE- CONTACT MAY CAUSE PAINLESS, PENETRATING, SLOW HEALING
LESIONS. SENSITIZATION DERMATITIS HAS BEEN REPORTED, POSSIBLY DUE TO THE
PRESENCE OF CHROMIUM.

CHRONIC EXPOSURE- PROLONGED OR REPEATED EXPOSURE MAY CAUSE ECZEMATOUS
DERMATITIS WITH EDEMA AND ULCERATION THAT HEALS SLOWLY. PROLONGED OR
REPEATED CONTACT WITH CHROMATE MAY INDUCE SENSITIZATION TO CHROMIUM.

FIRST AID- REMOVE CONTAMINATED CLOTHING AND SHOES IMMEDIATELY. WASH AFFECTED
AREA WITH SOAP OR MILD DETERGENT AND LARGE AMOUNTS OF WATER UNTIL NO
EVIDENCE OF CHEMICAL REMAINS (AT LEAST 15-20 MINUTES). IN CASE OF CHEMICAL
BURNS, COVER AREA WITH STERILE, DRY DRESSING. BANDAGE SECURELY, BUT NOT
TOO TIGHTLY. GET MEDICAL ATTENTION IMMEDIATELY.

EYE CONTACT:

POTASSIUM DICHROMATE:

CORROSIVE.

ACUTE EXPOSURE- CONTACT WITH VAPORS/ AND OR FUMES OF CHROMIUM MAY CAUSE
IRRITATION, REDNESS, PAIN, TEARING, CONJUNCTIVITIS, BLURRED VISION, AND

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INFLAMMATION,
CHRONIC EXPOSURE- PROLONGED EXPOSURE TO VAPORS AND/ OR FUMES MAY CAUSE
CONJUNCTIVITIS.

FIRST AID- WASH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER, OCCASIONALLY
LIFTING UPPER AND LOWER LIDS, UNTIL NO EVIDENCE OF CHEMICAL REMAINS (AT
LEAST 15-20 MINUTES). CONTINUE IRRIGATING WITH NORMAL SALINE UNTIL THE PH
HAS RETURNED TO NORMAL (30-60 MINUTES). COVER WITH STERILE BANDAGES. GET
MEDICAL ATTENTION IMMEDIATELY.

INGESTION:
POTASSIUM DICHROMATE:
CORROSIVE.

ACUTE EXPOSURE- INGESTION OF SOLUBLE DICHROMATE SALTS MAY CAUSE VIOLENT
GASTROENTERITIS, DIARRHEA, PERIPHERAL VASCULAR COLLAPSE, VERTIGO, MUSCLE
CRAMPS, COMA, HEMORRHAGIC DIATHESIS, FEVER, LIVER DAMAGE, HEMORRHAGIC
NEPHRITIS, AND ACUTE RENAL FAILURE.
CHRONIC EXPOSURE- PROLONGED OR REPEATED INGESTION IS NOT LIKELY TO OCCUR,
BUT MAY CAUSE LIVER AND KIDNEY DAMAGE.

FIRST AID- REMOVE BY GASTRIC LAVAGE OR EMESIS. MAINTAIN BLOOD PRESSURE AND
AIRWAY. GIVE OXYGEN IF RESPIRATION IS DEPRESSED. DO NOT PERFORM GASTRIC
LAVAGE OR EMESIS IF VICTIM IS UNCONSCIOUS. GET MEDICAL ATTENTION
IMMEDIATELY (DREISBACH, HANDBOOK OF POISONING, 11TH ED.), ADMINISTRATION
OF GASTRIC LAVAGE OR OXYGEN SHOULD BE PERFORMED BY QUALIFIED MEDICAL
PERSONNEL.

ANTIDOTE:
NO SPECIFIC ANTIDOTE. TREAT SYMPTOMATICALLY AND SUPPORTIVELY.

REACTIVITY

REACTIVITY:
STABLE UNDER NORMAL TEMPERATURES AND PRESSURES.

INCOMPATIBILITIES:

POTASSIUM DICHROMATE:
ACETONE AND SULFURIC ACID: ACETONE IGNITED IN SOLUTION OF SULFURIC ACID
AND POTASSIUM DICHROMATE.
ALUMINUM (FINELY DIVIDED): COMBUSTIBLE REACTION.
FLAMMABLE MATERIALS: HEATING MAY CAUSE IGNITION.
HYDRAZINES AND THEIR SALTS: EXPLOSIVE REACTION WITH IGNITION POSSIBLE.
HYDROXYLAMINES AND THEIR SALTS: EXPLOSIVE REACTION WITH IGNITION POSSIBLE.
MERCURY CYANIDES: FRICTION MAY CAUSE IGNITION.
OXIDIZABLE SUBSTANCES: RAPID REACTION WITH IGNITION POSSIBLE.
OXIDIZABLE SUBSTANCES (FINELY DIVIDED): VIOLENT REACTION WITH COMBUSTION.
PAPER: COMBUSTIBLE REACTION.
PLASTICS: COMBUSTIBLE REACTION.
SLAKED LIME: MIXING MAY CAUSE EXPLOSION.
SULFUR: COMBUSTIBLE REACTION.
WOOD: COMBUSTIBLE REACTION.

DECOMPOSITION:
THERMAL DECOMPOSITION MAY RELEASE TOXIC AND/OR HAZARDOUS GASES.

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.

DISPOSAL

CHROMIUM - REGULATORY LEVEL: 5.0 MG/L
MATERIALS WHICH CONTAIN THE ABOVE SUBSTANCE AT OR ABOVE THE REGULATORY
LEVEL MEET THE EPA CHARACTERISTIC OF TOXICITY, AND MUST BE DISPOSED OF IN
ACCORDANCE WITH 40 CFR PART 262. EPA HAZARDOUS WASTE NUMBER D007.

CONDITIONS TO AVOID

AVOID CONTACT WITH COMBUSTIBLE MATERIALS (WOOD, PAPER, FUEL, OILS, ETC);
IGNITION OR EXPLOSION MAY RESULT. AVOID CONTAMINATION OF WATER SOURCES.

SPILL AND LEAK PROCEDURES

SOIL SPILL:
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:
ADD SODIUM BISULFITE.

NEUTRALIZE WITH AGRICULTURAL LIME, SLAKED LIME, CRUSHED LIMESTONE OR SODIUM BICARBONATE.

NEUTRALIZE WITH DILUTE ACID OR REMOVABLE STRONG ACID.

ADD SUITABLE AGENT TO NEUTRALIZE SPILLED MATERIAL TO PH-7.

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

OCCUPATIONAL SPILL:

KEEP COMBUSTIBLES (WOOD, PAPER, OIL, ETC) AWAY FROM SPILLED MATERIAL. DO NOT TOUCH SPILLED MATERIAL. FOR SMALL DRY SPILLS, WITH CLEAN SHOVEL PLACE MATERIAL INTO CLEAN, DRY CONTAINER AND COVER; MOVE CONTAINERS FROM SPILL AREA. FOR SMALL LIQUID SPILLS, TAKE UP WITH SAND, EARTH OR OTHER ABSORBENT MATERIAL AND PLACE INTO CONTAINERS FOR LATER DISPOSAL. FOR LARGER SPILLS, DIKE FAR AHEAD OF SPILL FOR LATER DISPOSAL. KEEP UNNECESSARY PEOPLE AWAY. ISOLATE HAZARD AREA AND DENY ENTRY.

REPORTABLE QUANTITY (RQ): 1000 POUNDS
THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA) SECTION 304 REQUIRES THAT A RELEASE EQUAL TO OR GREATER THAN THE REPORTABLE QUANTITY FOR THIS SUBSTANCE BE IMMEDIATELY REPORTED TO THE LOCAL EMERGENCY PLANNING COMMITTEE AND THE STATE EMERGENCY RESPONSE COMMISSION (40 CFR 355.40). IF THE RELEASE OF THIS SUBSTANCE IS REPORTABLE UNDER CERCLA SECTION 103, THE NATIONAL RESPONSE CENTER MUST BE NOTIFIED IMMEDIATELY AT (800) 424-8802 OR (202) 426-2675 IN THE METROPOLITAN WASHINGTON, D.C. AREA (40 CFR 302.6).

PROTECTIVE EQUIPMENT

VENTILATION:
PROVIDE LOCAL EXHAUST OR PROCESS ENCLOSURE VENTILATION TO MEET PUBLISHED EXPOSURE LIMITS.

RESPIRATOR:

THE FOLLOWING RESPIRATORS AND MAXIMUM USE CONCENTRATIONS ARE RECOMMENDATIONS BY THE U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES, NIOSH POCKET GUIDE TO CHEMICAL HAZARDS; NIOSH CRITERIA DOCUMENTS OR BY THE U.S. DEPARTMENT OF LABOR, 29 CFR 1910 SUBPART Z.
THE SPECIFIC RESPIRATOR SELECTED MUST BE BASED ON CONTAMINATION LEVELS FOUND IN THE WORK PLACE, MUST NOT EXCEED THE WORKING LIMITS OF THE RESPIRATOR AND BE JOINTLY APPROVED BY THE NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH AND THE MINE SAFETY AND HEALTH ADMINISTRATION (NIOSH-MSHA).

HEXAVALENT CHROMIUM COMPOUNDS:

- 0.25 MG/M3- ANY SUPPLIED-AIR RESPIRATOR.
ANY SELF-CONTAINED BREATHING APPARATUS.
ANY DUST AND MIST RESPIRATOR EXCEPT SINGLE-USE AND QUARTER-MASK RESPIRATORS.
- 0.625 MG/M3- ANY POWERED AIR-PURIFYING RESPIRATOR WITH A HIGH-EFFICIENCY PARTICULATE FILTER.
ANY SUPPLIED-AIR RESPIRATOR OPERATED IN A CONTINUOUS FLOW MODE.
- 1.25 MG/M3- ANY AIR-PURIFYING FULL FACEPIECE RESPIRATOR WITH A HIGH-EFFICIENCY PARTICULATE FILTER.
ANY POWERED AIR-PURIFYING RESPIRATOR WITH A TIGHT-FITTING FACEPIECE AND A HIGH-EFFICIENCY PARTICULATE FILTER.
ANY SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE.
ANY SUPPLIED-AIR RESPIRATOR WITH A FULL FACEPIECE.
- 25 MG/M3- ANY SUPPLIED-AIR RESPIRATOR WITH A HALF-MASK AND OPERATED IN A PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE.
- 50 MG/M3- ANY SUPPLIED-AIR RESPIRATOR WITH A FULL FACEPIECE AND OPERATED IN A PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE.
- ESCAPE- ANY AIR-PURIFYING FULL FACEPIECE RESPIRATOR WITH A HIGH-EFFICIENCY PARTICULATE FILTER.
ANY APPROPRIATE ESCAPE-TYPE SELF-CONTAINED BREATHING APPARATUS.

FOR FIREFIGHTING AND OTHER IMMEDIATELY DANGEROUS TO LIFE OR HEALTH CONDITIONS:

SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE.

SUPPLIED-AIR RESPIRATOR WITH FULL FACEPIECE AND OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE IN COMBINATION WITH AN AUXILIARY SELF-CONTAINED BREATHING APPARATUS OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE.

CLOTHING:

EMPLOYEE MUST WEAR APPROPRIATE PROTECTIVE (IMPERVIOUS) CLOTHING AND EQUIPMENT TO PREVENT ANY POSSIBILITY OF SKIN CONTACT WITH THIS SUBSTANCE.

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GLOVES:
EMPLOYEE MUST WEAR APPROPRIATE PROTECTIVE GLOVES TO PREVENT CONTACT WITH THIS SUBSTANCE.

EYE PROTECTION:
EMPLOYEE MUST WEAR SPLASH-PROOF OR DUST-RESISTANT SAFETY GOGGLES TO PREVENT EYE CONTACT WITH THIS SUBSTANCE.

EMERGENCY EYE WASH: WHERE THERE IS ANY POSSIBILITY THAT AN EMPLOYEE'S EYES MAY BE EXPOSED TO THIS SUBSTANCE, THE EMPLOYER SHOULD PROVIDE AN EYE WASH FOUNTAIN WITHIN THE IMMEDIATE WORK AREA FOR EMERGENCY USE.

AUTHORIZED - FISHER SCIENTIFIC GROUP, INC.
CREATION DATE: 12/17/84 REVISION DATE: 07/13/90

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