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IMPORTANT SAFETY INFORMATION 1 DO NOT DISCARD.

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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 644 MADISON ST SYRACUSE NY 13210 DIST

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

(MSDS) NOT UNDER SEP-

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ARATE COVER.

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\*\*POTASSIUM
\*\*POTASSIUM NITRATE\*\*
NITRATE\*\*

# MATERIAL SAFETY DATA SHEET

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EMERGENCY CONTACTS
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(201) 796-7100

DATE: PO NBR: ACCT: INDEX: CAT NO: 04/26/86

818725-99 25-8611-50039 P263500

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## SUBSTANCE IDENTIFICATION

SUBSTANCE: \*\*POTASSIUM-NITRATE\*\*

CAS-NUMBER 7757-79-1

TRADE NAMES/SYNONYMS: NITER; NITRE; SALTPETER; P-383; P-261; P-263

CHEMICAL FAMILY: INORGANIC SALT

MOLECULAR FORMULA: K-N-03

MOL WI 101.11

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

COMPONENTS AND CONTAMINANTS

COMPONENT: POTASSIUM NITRATE

OTHER CONTAMINANTS: NONE

PERCENT: 100

NONE ESTABLISHED

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PHYSICAL DATA

 $\left( \cdot \right)$ -- DESCRIPTION: COLORLESS, TRANSPARENT PRISMS, WHITE GRANULAR Q R CRYST-

ALLINE POWDER, WITH A COOLING, SALINE, PUNGENT TASTE

BOILING POINT: 752 F (400°C) DEC

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MELTING POINT: 633 (334

SPECIFIC GRAVITY: 2.1 PH: 7.0 SOLUBILITY IN WATER: 13.3%

SOLVENT SOLUBILITY: LIQUID AMMONIA, GLYCEROL

#### FIRE AND EXPLOSION DATA

FIRE AND EXPLOSION HAZARD:

OXIDIZING AGENT: MAY CAUSE IGNITION, VIOLENT COMBUSTION OR EXPLOSION I

CONTACT WITH EASILY OXIDIZABLE SUBSTANCES; INCREASES THE FLAMMABILITY

BUSTIBLE MATERIALS. A OF COW-

FLASH POINT: NON-FLAMMABLE

FIREFIGHTING MEDIA: DRY CHEMICAL, CARBON DIOXIDE OR WATER SPRAY (1984 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5 5800.3)

FOR LARGE FIRES, RESPONSE GUIDEBOOK, FOG DOT U 5800.3)

FIREFIGHTING:
MOVE CONTAINERS FROM FIRE AREA IF POSSIBLE. COOL CONTAINERS EXPOSED TO FLAMES
MOVE CONTAINERS FROM FIRE AREA IF POSSIBLE. COOL CONTAINERS EXPOSED TO FLAMES
WITH WATER FROM SIDE UNTIL WELL AFTER FIRE IS OUT. FOR MASSIVE FIRE IN STORAGE
AREA, USE UNMANNED HOSE HOLDER OR MONITOR NOZZLES; ELSE WITHDRAW FROM AREA AND
LET FIRE BURN (1984 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.3).

FLOOD WITH WATER. COOL CONTAINERS WITH FLOODING AMOUNTS OF WATER FROM AS FAR A DISTANCE AS POSSIBLE. AVOID BREATHING VAPORS OR DUSTS. EVACUATE TO A RADIUS OF 2500 FEET FOR UNCONTROLLABLE FIRES (BUREAU OF EXPLOSIVES, EMERGENCY HANDLING OF HAZARDOUS MATERIALS IN SURFACE TRANSPORTATION, 1981).

#### TOXICITY

3015 MG/KG ORAL-RABE (RTEC); TERATOGENIC POTASSIUM NITRATE AFFECTS THE BLOOD. BIT LD50; 100 MG/KG INTRAVENOUS-CAT LDLO; DATA (RTEC); CARCINOGENIC STATUS: NONE. IS AN EYE, MUCOUS MEMBRANE, AND SKIN IRR: IRRITANT. MUTAGENIC POISONING

### HEALTH EFFECTS AND FIRST AID

INHALATION: IRRITANT. ACUTE EXPOSURE-

COUGHING, DYSPNEA, DIZZINESS, HEADACHE, FLUSHING OF THE SKIN, NAUSEA, VOMITING, SHOCK, MARKED HYPOTENSION, CYANOSIS, CONVULSIONS, COMA, AND RESPIRATORY PARALYSIS MAY OCCUR.

CHRONIC EXPOSURE-REPEATED OR PROLONGED ACUTE INHALATION. EXPOSURE MAY CAUSE SMOIDMYS AS WITH

FIRST REMOVE FROM EXPOSURE AREA TO FRESH AIR IMMEDIATELY. IF BREATHING HAS STOPPED, GIVE ARTIFICIAL RESPIRATION. MAINTAIN AIRWAY AND BLOOD PRESSURE AND ADMINISTER OXYGEN IF AVAILABLE. KEEP AFFECTED PERSON WARM AND AT REST. GET MEDICAL ATTENTION. TREAT METHEMOG-LOBINEMIA. (DREISBACH, HANDBOOK OF POISONING, 11TH ED.) OXYGEN AND METHEMOGLOBINEMIA TREATMENT MUST BE ADMINISTERED BY QUALIFIED MEDICAL PERSONNEL. OXYGEN QUALIFIED

SKIN CONTACT:

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ACUTE EXPOSURE-\*\*POTASSIUM NITRATE\*\*
DIRECT CONTACT MAY CAUSE IRRITATION.
SYMPTOMS AS WITH ACUTE INHALATION. PAGE 03 3 OF 05 CAUSE

CHRONIC EXPOSURE-REPEATED OR PROLONGED EXPOSURE MAY OS ORBITON MAY CAUSE SYMPTOMS AS WITH ACUTE INHALATION

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

E CONTACT: RITATION. ACUTE EXPOSURE-DIRECT CONTACT MAY CAUSE IRRITATION, REDNESS,

CHRONIC EXPOSURE-REPEATED OR PROLONGED EXPOSURE MAY CAUSE CONJUCTIVITIS.

WASH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER, OCCASION LIFTING UPPER AND LOWER LIDS, UNTIL NO EVIDENCE OF CHEMICAL MAINS (APPROXIMATELY 15-20 MINUTES). GET MEDICAL ATTENTION. OCCASIONALLY

EXPOSURE-ABDOMINAL SPASM, NAUSEA, VOMITING, DIARRHEA, I MARKED HYPOTENSION, FAINTNESS, MUSCLE SPASMS, CONVULSION, COLLAPSE, COMA, BLOOD DISORDERS, PARALYSIS ARE POSSIBLE. DIURESIS, CYANOSIS, AND RESPIRATORY

MEDICAL ATT AND INDUCE V 1 IS CONSCIOUS, IMMEDIATELY (
VOMITING BY TOUCHING FINGER IMMEDIATELY. GIVE 2 TO 4 R TO BACK OF GLASSES THROAT.

## REACTIVITY

REACTIVITY: MAY REACT W

WITH REDUCING AGENTS ÁND INCOMPATIBLE SUBSTANCES

INCOMPATIBILITIES:

EXPLOSION: PHOSPHORUS.

EXPLOSION BY HEATING: ANTIMONY TRISULFIDE, METALS: POTASSIUM, TITANIUM, ANTIMONY, GERMANIUM, ZINC, ETC., METAL SULFIDES: SULFIDES OF ANTIMONY, GERMANIUM, ZINC, ETC., METAL SULFIDES: SULFIDES OF ANTIMONY, BARIUM, CALCIUM, GERMANIUM, ETC., SODIUM THIOSULFATE, TRICOPPER DIPOSPHIDE, ITTANIUM DISULFIDE, SODIUM THOSULFATE, TRICOPPER DIPOSPHIDE, ITTANIUM DISULFIDE, SODIUM ACETATE AND TARTARATES, OXALATES AND CITRATES, BIS(TRICHLOROMETHYL)BENZENE.

EXPLOSION BY IMPACT: COPPER MONOPHOSPHIDE, LEAD PHOSPHITE, LEAD NITRATE.

EXPLOSION ON DISSOLVING: SODIUM HYPOSULFITE.

POSSIBLE EXPLOSION: SODIUM PEROXIDE AND DEXTROSE.

VIOLENT OR INTENSE COMBUSTION: CARBON, COPPER PHOSPHIDE.

INCANDESCENT COMBUSTION BY HEATING IN AIR: THORIUM CARBIDE.

FORMATION OF EXPLOSIVE MIXTURE: ARSENIC DISULFIDE, ARSENIC, SODIUM HYPOPHOSPHITE, SODIUM THIOSULFATE, SODIUM ACETATE, SULFUR AND DIARSENIC TRISULFIDE.

FORMATION OF PYROTECHNIC MIXTURE: CHARCOAL, SULFUR AND ARSENIC TRISULFIDE.

FORMATION OF IGNITABLE MIXTURE: CARBON, BORON, CALCIUM DISILICIDE.

"INCANDESCENT REACTION: SELENIUM, TITANIUM.

SODIUM HYPOPHOS-RSENIC TRISULFIDE VIC TRISULFIDE.

DECOMPOSITION:
THERMAL DECOMPOSITION RELEASES FLAMMABLE OXYGEN AND TOXIC HITROGEN DIOXIDE

POLYMERIZATION: NOT KNOWN TO OCCUR.

HAZARD MAY IGNITE OTHER COMBUSTIBLE MATERIALS (WOOD, PAPER, OIL, ETC.). REACTION MAY BE VIOLENT. RUNOFF TO SEWER MAY CREATE FIRE OR EXPLOSION

CONSULT NEPA PUBLICATION 43A, FOR STORAGE REQUIREMENTS. STORAGE О Т TIQUID AND SOLID OXIDIZING MATERIALS

SPILL

OCCUPATIONAL SPILL:

KEEP COMBUSTIBLES (WOOD, PAPER, DIL, ETC) AWAY FROM SPILLED MATERIAL. DO NITOUCH SPILLED MATERIAL. FOR SMALL DRY SPILLS, WITH CLEAN SHOVEL PLACE TOUCH SPILLED MATERIAL. FOR SMALL DRY CONTAINER AND COVER; MOVE CONTAINERS FROM SPILL MATERIAL INTO CLEAN, DRY CONTAINER AND COVER; MOVE CONTAINERS FOR LARD, EARTH OR OTHER ABSORBENT 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.

## PROTECTIVE EQUIPMENT

PROCESS ENCLOSURE, LOCAL EXHAUST, 02 GENERAL DILUTION VENTILATION SYSTEM

RESPIRATOR: HIGH LEVELS-

TSUG MASK

FIRE FIGHTING-SELF-CONTAINED BREATHING APPARATUS WITH OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE

CLOTHING:
EMPLOYEE MUST WEAR APPROPRIATE PROTECTIVE CLOTHING AND ANY POSSIBILITY OF SKIN CONTACT WITH THIS SUBSTANCE. EQUIPMENT 급 PREVENT

GLOVES: EMPLOYEE MUST SUBSTANCE. WEAR APPROPRIATE PROTECTIVE GLOVES Q. PREVENT CONTACT HIIM

EYE PROTECTION:
EMPLOYEE MUST WEAR SPLASH-PROOF
EYE CONTACT WITH THIS SUBSTANCE ᄝ DUST-RESISTANT SAFETY **GOGGLES** T<sub>0</sub> PREVENT

AUTHORIZED CREATION DATE: ( 02/12/85 FISHER SCIENTIFIC REVISION DATE: 04/26/85

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