

Product Number: **60368**Product Name: **Potassium hydroxide**

Valid 05/2003 - 07/2003

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Tel: 414-273-3850

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

SECTION 1. - - - - - CHEMICAL IDENTIFICATION- - - - -
 CATALOG #: 60368
 NAME: POTASSIUM HYDROXIDE, FOR LUMINESCENCE, PE
 LLETS*

SECTION 2. - - - - - COMPOSITION/INFORMATION ON INGREDIENTS - - - - -
 CAS #: 1310-58-3
 EC NO: 215-181-3
 SYNONYMS
 CAUSTIC POTASH * HYDROXYDE DE POTASSIUM (FRENCH) * KALIUMHYDROXID
 (GERMAN) * KALIUMHYDROXYDE (DUTCH) * LYE * POTASSA * POTASSE
 CAUSTIQUE (FRENCH) * POTASSIO (IDROSSIDO DI) (ITALIAN) * POTASSIUM
 HYDRATE * POTASSIUM HYDROXIDE (ACGIH) * POTASSIUM (HYDROXYDE DE)
 (FRENCH) *

SECTION 3. - - - - - HAZARDS IDENTIFICATION - - - - -
 LABEL PRECAUTIONARY STATEMENTS
 CORROSIVE
 HARMFUL IF SWALLOWED.
 CAUSES SEVERE BURNS.
 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.
 IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE
 IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).
 AIR SENSITIVE
 VERY HYGROSCOPIC

SECTION 4. - - - - - FIRST-AID MEASURES- - - - -
 IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.
 CALL A PHYSICIAN IMMEDIATELY.
 DO NOT INDUCE VOMITING.
 IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL
 RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.
 IN CASE OF SKIN CONTACT, FLUSH WITH COPIOUS AMOUNTS OF WATER
 FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND
 SHOES. CALL A PHYSICIAN.
 IN CASE OF CONTACT WITH EYES, FLUSH WITH COPIOUS AMOUNTS OF WATER
 FOR AT LEAST 15 MINUTES. ASSURE ADEQUATE FLUSHING BY SEPARATING
 THE EYELIDS WITH FINGERS. CALL A PHYSICIAN.

SECTION 5. - - - - - FIRE FIGHTING MEASURES - - - - -
 EXTINGUISHING MEDIA
 CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.
 DO NOT USE WATER.
 SPECIAL FIREFIGHTING PROCEDURES
 WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO
 PREVENT CONTACT WITH SKIN AND EYES.
 UNUSUAL FIRE AND EXPLOSIONS HAZARDS
 EMITS TOXIC FUMES UNDER FIRE CONDITIONS.
 MAY REACT WITH METALS, RELEASING FLAMMABLE HYDROGEN GAS.

SECTION 6. - - - - - ACCIDENTAL RELEASE MEASURES- - - - -
 WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY
 RUBBER GLOVES.
 SWEEP UP, PLACE IN A BAG AND HOLD FOR WASTE DISPOSAL.
 VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.
 EVACUATE AREA.

SECTION 7. - - - - - HANDLING AND STORAGE- - - - -
 REFER TO SECTION 8.

SECTION 8. - - - - - EXPOSURE CONTROLS/PERSONAL PROTECTION- - - - -
 SAFETY SHOWER AND EYE BATH.
 USE ONLY IN A CHEMICAL FUME HOOD.
 WASH CONTAMINATED CLOTHING BEFORE REUSE.
 DISCARD CONTAMINATED SHOES

DISCARD CONTAMINATED SHOES.
 WASH THOROUGHLY AFTER HANDLING.
 DO NOT BREATHE DUST.
 DO NOT GET IN EYES, ON SKIN, ON CLOTHING.
 AVOID PROLONGED OR REPEATED EXPOSURE.
 NIOSH/MSHA-APPROVED RESPIRATOR.
 COMPATIBLE CHEMICAL-RESISTANT GLOVES.
 CHEMICAL SAFETY GOGGLES.
 KEEP TIGHTLY CLOSED.
 STORE IN A COOL DRY PLACE.
 ABSORBS CO2 FROM AIR.

SECTION 9. - - - - - PHYSICAL AND CHEMICAL PROPERTIES - - - - -

APPEARANCE AND ODOR

SOLID.

PHYSICAL PROPERTIES

BOILING POINT: 1,320 C
 MELTING POINT: 320 C
 VAPOR PRESSURE: 1 MMHG @ 719 C
 SOLUBILITY:

WATER -Z1076

SPECIFIC GRAVITY: 2.044
 PERCENT VOLATILE: 0 %
 PH: 13.5
 SWISS POISON CLASS: 2

SECTION 10. - - - - - -STABILITY AND REACTIVITY - - - - -

STABILITY

STABLE.

CONDITIONS TO AVOID

ABSORBS CO2 FROM AIR.
 HEAT OF SOLUTION IS VERY HIGH, AND WITH LIMITED AMOUNTS OF WATER,
 VIOLENT BOILING MAY OCCUR.

INCOMPATIBILITIES

DO NOT HEAT ABOVE MELTING POINT.

TIN

NITRO COMPOUNDS

ZINC

ORGANIC MATERIALS

MAGNESIUM

COPPER

WATER

ALUMINUM

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS

HYDROGEN GAS

CARBON MONOXIDE

POTASSIUM OXIDES

HAZARDOUS POLYMERIZATION

WILL NOT OCCUR.

SECTION 11. - - - - - TOXICOLOGICAL INFORMATION - - - - -

ACUTE EFFECTS

INHALATION MAY RESULT IN SPASM, INFLAMMATION AND EDEMA OF THE
 LARYNX AND BRONCHI, CHEMICAL PNEUMONITIS AND PULMONARY EDEMA.
 SYMPTOMS OF EXPOSURE MAY INCLUDE BURNING SENSATION, COUGHING,
 WHEEZING, LARYNGITIS, SHORTNESS OF BREATH, HEADACHE, NAUSEA AND
 VOMITING.

MATERIAL IS EXTREMELY DESTRUCTIVE TO TISSUE OF THE MUCOUS MEMBRANES
 AND UPPER RESPIRATORY TRACT, EYES AND SKIN.

TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND
 TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

CAUSES SEVERE BURNS.

MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN.

MAY BE HARMFUL IF INHALED.

MATERIAL IS EXTREMELY DESTRUCTIVE TO THE TISSUE OF THE MUCOUS MEMBRANES
 AND UPPER RESPIRATORY TRACT.

TOXIC IF SWALLOWED.

LD

RTECS #: TT2100000

POTASSIUM HYDROXIDE

IRRITATION DATA

SKN-HMN 50 MG/24H SEV TXAPA9 31,481,1975

SKN-RBT 50 MG/24H SEV TXAPA9 31,481,1975

EYE-RBT 1 MG/24H RINSE MOD TXAPA9 32,239,1975

SKN-GPG 50 MG/24H SEV TXAPA9 31,481,1975

TOXICITY DATA

ORL-RAT LD50:273 MG/KG FAATDF 8,97,1987

ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES
 (RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR
 COMPLETE INFORMATION.

SECTION 12. - - - - - ECOLOGICAL INFORMATION - - - - -

DATA NOT YET AVAILABLE.

SECTION 13. - - - - - DISPOSAL CONSIDERATIONS - - - - -

CONTACT A LICENSED PROFESSIONAL WASTE DISPOSAL SERVICE TO DISPOSE OF
 THIS MATERIAL.

DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A
 CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER.

OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

SECTION 14. - - - - - TRANSPORT INFORMATION - - - - -

CONTACT FLUKA CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION.

SECTION 15. - - - - - REGULATORY INFORMATION - - - - -

EUROPEAN INFORMATION

EC INDEX NO: 019-002-01-5

CORROSIVE

R 22

HARMFUL IF SWALLOWED.

R 35

CAUSES SEVERE BURNS.

S 26

IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.

S 36/37/39

WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION.

REVIEWS, STANDARDS, AND REGULATIONS

OEL=MAK

ACGIH TLV-CL 2 MG/M3 DTLVS* TLV/BEI,1999

EPA FIFRA 1988 PESTICIDE SUBJECT TO REGISTRATION OR RE-REGISTRATION

FEREAC 54,7740,1989

OEL-AUSTRALIA: TWA 2 MG/M3, JAN1993

OEL-AUSTRIA: MAK 2 MG/M3, JAN1999

OEL-BELGIUM: STEL 2 MG/M3, JAN1993

OEL-DENMARK: TWA 2 MG/M3, JAN1999

OEL-FINLAND: TWA 2 MG/M3, JAN1999

OEL-JAPAN: STEL 2 MG/M3, JAN1999

OEL-THE NETHERLANDS: MAC-TGG 2 MG/M3, JAN1999

OEL-NORWAY: TWA 2 MG/M3, JAN1999

OEL-POLAND: MAC(TWA) 0.5 MG/M3, MAC(STEL) 1 MG/M3, JAN1999

OEL-SWITZERLAND: MAK-W 2 MG/M3, JAN1999

OEL-UNITED KINGDOM: STEL 2 MG/M3, SEP2000

OEL IN ARGENTINA, BULGARIA, COLOMBIA, JORDAN, KOREA CHECK ACGIH TLV;

OEL IN NEW ZEALAND, SINGAPORE, VIETNAM CHECK ACGIH TLV

NIOSH REL TO POTASSIUM HYDROXIDE-AIR:CL 2 MG/M3

NIOSH* DHHS #92-100,1992

NOHS 1974: HZD 60440; NIS 340; TNF 80620; NOS 181; TNE 1081553

NOES 1983: HZD X3783; NIS 11; TNF 543; NOS 16; TNE 6722; TFE 2651

NOES 1983: HZD 60440; NIS 346; TNF 74278; NOS 221; TNE 1959889; TFE 797390

EPA TSCA SECTION 8(B) CHEMICAL INVENTORY

EPA TSCA SECTION 8(E) RISK NOTIFICATION, 8EHQ-0892-9197

EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, JANUARY 2001

NIOSH ANALYTICAL METHOD, 1994: ALKALINE DUSTS, 7401

SECTION 16. - - - - - OTHER INFORMATION - - - - -

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