

Environmental, Safety and Transportation Data Sheet

POTASSIUM HYDROXIDE

I PRODUCT IDENTIFICATION				
SUPPLIER	TELEPHONE NO 713/987-5900			
NL BAROID				┥┌──
ADDRESS P.O. BOX 1675 HOUSTON, TEXAS 77251				N
TRADE NAME				7 L
POTASSIUM HYDROXIDE				
GENERIC DESCRIPTION				IJĬ
CAUSTIC POTASH, POTASSIUM HYDRATE] E
II HAZARDOUS INGREDIENTS				
MATERIAL OR COMPONENT	: :	HAZARD DATA		HEALTH HAZARD
POTASSIUM HYDROXIDE	100	CORROSIVE TLV 2 mg/m³		\mathbb{R}
				1=
				7 5
				_ §
				/ABI
III PHYSICAL DATA				FLAMMABILITY
BOILING POINT (FF)	VELTING POINT ND		FREEZING POINT	- _`
SPECIFIC GRAVITY (H.O.: 1)	.AFOR PRESSURE (mm: Ha		,	_
1.5	39 mm@ 140°F			
VAPOR DENSITY (AIR = 1) NA	SOLUBILITY IN H.O. % BY WT			
F: VOLATILES BY VOL	EVAPORATION RATE (BUTYL ACETATE = 1) NA			1
APPEARANCE AND ODOR CLEAR LIQUID. ODORLESS	Density @ 20°C 45% SOLN. 1.5 gms/cc@ 15.5°F			REAC
ND .				REACTIVITY
N.A. = Not Applicable N.D. = Not Determined				-

information recommendations and suggestions herein concerning our product based upon rests and para believed to be reliable however little user's responsibility of determine the safety tokicity and suitability for his own use of the product described herein. Since the actual use by others is beyond our control, no guarantee, expressing the mplied is made by Nu Petroleum Services inclias to the effects of such use, the review

It be obtained or the safety and toxicity of the product nor does NE Petroleum Services micliassume and labelty arising out of use, by others, of the product referred to herein. No is the information berein to be construed as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circum stances exist or tecause of applicable laws or government regulations

POTASSIUM HYDROXIDE

Ratings based on NIOSH "Identification System for Occupationally Hazardous Materials" (1974)

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IV FIRE AND EXPLOSION DATA

POTASSIUM HYDROXIDE IS NOT FLAMMABLE OR COMBUSTIBLE.

EXTINGUISHING MEDIA: WATER

SPECIAL FIRE FIGHTING PROCEDURES: USE CARE NOT TO SPLATTER OR SPLASH THIS MATERIAL WHEN FLOODING WITH WATER, SINCE IT IS HARMFUL UPON CONTACT WITH SKIN.

V HEALTH HAZARD INFORMATION

CARCINOGENICITY - NOT ON NTP, IARC OR OSHA LISTS

ACUTE ORAL LD50

360 ma/ka

ACUTE DERMAL LD50

ND

AQUATIC TOXICITY (LC50)

ND

ROUTES OF EXPOSURE AND EFFECTS

SKIN CONTACT: SEVERE IRRITATION, BURNS.

EYE CONTACT: SEVERE DAMAGE TO TISSUE, MAY INVOLVE PERMANENT DAMAGE.

INHALATION:

INJURY TO RESPIRATORY TRACT, INFLAMMATION OF THE LUNGS.

INGESTION:

BURNING IN MOUTH AND ESOPHAGUS, NAUSEA, VOMITING, STOMACH PAIN,

DIARRHEA.

POTASSIUM HYDROXIDE TLV = 2 mg/m^3

EMERGENCY AND FIRST AID PROCEDURES

IMMEDIATELY FLUSH SKIN WITH WATER IN LARGE AMOUNTS FOR AT LEAST 15 MINUTES TO AVOID INJURY. IRRIGATE EYES AT ONCE WITH LARGE QUANTITIES OF WARM WATER FOR AT LEAST 15 MINUTES. CONTACT PHYSICIAN. REMOVE ALL CONTAMINATED CLOTHING AND SHOWER. IF SWALLOWED, GIVE PERSON LARGE AMOUNTS OF WATER. DO NOT INDUCE VOMITING. CONTACT PHYSICIAN. IF INHALED, REMOVE PERSON TO FRESH AIR. IF BREATHING HAS STOPPED GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, SUPPLY OXYGEN.

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VI REACTIVITY DATA

CONDITIONS CONTRIBUTING TO INSTABILITY

REACTS WITH WATER TO PRODUCE HEAT.

INCOMPATIBILITY

ACIDS, METALS, EXPLOSIVES, ORGANIC PEROXIDES, WATER, EASILY IGNITABLE MATERIALS, ORGANIC HALOGENS, ALUMINUM, TIN, ZINC, NITRO COMPOUNDS.

HAZARDOUS DECOMPOSITION PRODUCTS

ND

CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION

NONE

VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

RQ (DOT & EPA) - 1000 lbs/454 kg.

FOR SOLID: SHOVEL UP. DILUTE WITH WATER AND NEUTRALIZE WITH 6M-HCI OR OTHER SUITABLE ACID.

FOR SOLUTION: PICK UP WITH SAND OR OTHER NONCOMBUSTIBLE ABSORBENT MATERIAL. PLACE IN CONTAINER FOR DISPOSAL AND NEUTRALIZE.

NEUTRALIZING CHEMICALS

HCI, H2SO4

WASTE DISPOSAL METHOD

SEWER NEUTRALIZED SOLUTION. ANY RESIDUE FROM NEUTRALIZATION PROCESS SHOULD BE DISCARDED IN A DESIGNATED LAND FILL.

VIII INDUSTRIAL HYGIENE CONTROL MEASURES

VENTILATION REQUIREMENTS

USE LOCAL EXHAUST VENTILATION WHEN NECESSARY

SPECIFIC PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY

USE A NIOSH APPROVED MECHANICAL FILTER: FULL FACE PIECE.

EYE

GOGGLE, FULL FACE SHIELD

GLOVES

RUBBER

OTHER CLOTHING AND EQUIPMENT

APRON, COVERALLS, BOOTS EYEWASH AND SHOWER

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IX SPECIAL PRECAUTIONS

PRECAUTIONARY STATEMENTS

AVOID BREATHING VAPORS.

AVOID CONTACT WITH EYES, SKIN, AND CLOTHING.

WASH THOROUGHLY AFTER HANDLING.

ALWAYS USE PROPER PERSONAL PROTECTIVE EQUIPMENT WHEN HANDLING CAUSTIC POTASH.

OTHER HANDLING AND STORAGE REQUIREMENTS

PROTECT CONTAINER AGAINST PHYSICAL DAMAGE.

STORE IN A DRY PLACE, SINCE CAUSTIC POTASH IS VERY HYDROSCOPIC.

KEEP SEPARATE FROM ACIDS, METALS, EXPLOSIVES, ORGANIC PEROXIDES, AND EASILY **IGNITABLE MATERIALS.**

DEPARTMENT OF TRANSPORTATION INFORMATION

PROPER SHIPPING NAME: POTASSIUM HYDROXIDE

HAZARD CLASS: CORROSIVE MATERIAL

HAZARDOUS SUBSTANCE: POTASSIUM HYDROXIDE

LABEL: CORROSIVE

UN 1814

PREPARED BY NL Barold

ENVIRONMENTAL SERVICES

DATE

JULY, 1987