



## MATERIAL SAFETY DATA SHEET

PRODUCT NAME: POTASSIUM HYDROXIDE 45%  
PRODUCT CODE:

DATE: 6-13-94

02

## SECTION II Health Hazards

CONTINUED

Skin: Causes severe burns.

Inhalation: May cause irritation.

Ingestion: This is a poison. May cause violent pain, hematemesis, or collapse.

## First Aid:

Eyes: Rinse immediately with plenty of water for 15 minutes and seek advice of an eye specialist.

Skin: Immediately take off all contaminated clothing.

## Inhalation:

Ingestion: Rinse mouth immediately with plenty of water and then drink plenty of water. Do not induce vomiting and seek medical advice immediately.

Other Information: Danger of slipping after spill or leakage.

Principal Routes of Absorption:

Effects of Chronic Exposure:

## SECTION III Special Protection Information

Respiratory Protection: Yes, when vapours or aerosols occur.

## Protective Clothing:

Eyes: Close-fitting protective goggles (e.g. closed goggles)

Skin: Hand protection required. Use protective clothing/face shield if necessary.

Additional protective Measures: Keep containers tightly closed. Minimum storage temperature is 15°C. Suitable container material; stainless steel, rubber-lined steel, at temperatures below 70°C polyolefins.

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SECTION IV Fire & Explosion Hazard Data

Flash Point (Method): N/A

Flammable Limits (% Volume in Air):

Upper: NA  
Lower: NA

Extinguishing Media: The product is not combustible.

Special Fire Fighting Procedures: In case of fire in the surroundings, water spray, foam, CO<sub>2</sub>, dry powder.

Unusual Fire and Explosion Hazards:

SECTION V Physical Data

Boiling Point: 146°C

Specific Gravity (H<sub>2</sub>O=1): 1.36

Vapor Pressure (MM HG.):

Vapor Density (AIR=1): 20°C 1.51 g/cm<sup>3</sup>

Evaporation Rate (Butyl Acetate=1):

Solubility in Water: Miscible

Percent Volatile by Volume:

PH: >14

Freezing Point:

Appearance and Odor: Colorless, odorless liquid

SECTION VI Reactivity Data

Stability:

Incompatibility: Aluminum, zinc, enamel, chlorine dioxide, nitrobenzene, nitromethane, nitrogen trichloride

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SECTION VI Reactivity Data

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Hazardous Decomposition Products:

Hazardous Polymerization: Evolution of hydrogen with various metals, e.g. aluminum, magnesium, zinc (Formation of detonating gas with atmospheric oxygen). Exothermic reaction with acids. Evolution of ammonia with ammonium salts.

SECTION VII Spill and Leak Procedures

Steps to be taken if material is released or spilled: Wear personal protective equipment. Keep away from drains, waters and soil. Take up mechanically or with an absorbent material. Wash away residues with plenty of water. Suitable absorbents: sand (for damming up), sawdust.

Waste Disposal Method: If the product can be reused, consult the authority responsible for matters of waste disposal.

SECTION VIII D.O.T. Shipping Information

Proper Shipping Name: Potassium Hydroxide

Hazard Class: 8 - Corrosive

ID Number: UN 1814

Label Requirements: Corrosive

Reportable Quantity: 1,000 lbs

Other Information:

SECTION IX Additional Information

This information may be of importance to you:

FURTHER PRECAUTIONARY MEASURES:

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References:

NPCA/HMIS RATING:

Health- 3  
Flammability- 0  
Reactivity- 2  
Special Protection-

\*\*\*\*\* END OF REPORT \*\*\*\*\*

FOR GFI, INC.

DATE ISSUED:  
DATE REVISED:

< = LESS THAN  
> = MORE THAN

N/A = NOT APPLICABLE  
N/D = NOT DETERMINED  
N/E = NOT ESTABLISHED

UNK = UNKNOWN

The information provided in this Material Safety Data Sheet has been obtained from sources believed to be reliable. GFI provides no warranties, either expressed or implied and assumes no responsibility for the accuracy or completeness of the data contained herein. This information is offered for your information, consideration and investigation. You should satisfy yourself that you have all current data relevant to your particular use. GFI knows of no medical condition, other than those noted on this Material Safety Data Sheet, which are generally recognized as being aggravated by exposure to this product.