

POTASSIUM HYDROXIDE FLAKES 90 %

1 – PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFIER : **POTASSIUM HYDROXIDE**

MANUFACTURER : **PRODUITS CHIMIQUES DE LOOS**

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Normal use : Potassium sal preparation, detergency

2 – HAZARD IDENTIFICATION

product :

- dangerous
- corrosive
- can have a harmful effect on living tissues (skin, mucous membranes)
- Harmful in the case of ingestion – causes burning

3 – COMPOSITION/INFORMATION ON INGREDIENTS

- Usual name : Potassium hydroxide flakes 90%
- KOH total alkalinity % weight ≥ 90
- CAS n°: 1310-58-3
- EINECS n°: 215-181-3
- EC Index : 019-002-00-8
- Symbol : C (Corrosive)
- Phrases : R22, R35

4 – FIRST AID

- Skin contact : - Immediately wash skin with plenty of water for at least 15 min
- Eye contact : - Immediately wash eyes for at least 15 min, by opening eyelids wide
- Consult an Ophthalmologist
- Inhalation : - If respiratory disorders occur, put to rest
- Medical supervision as needed
- Artificial respiration as needed
- Ingestion : - Do not make drink – do not induce vomiting – promptly take to hospital
- Affected clothing : - Remove and use only after cleaning
- Provide water points / showers / eye washes in close vicinity

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5 – FIRE FIGHTING MEASURES

Not applicable.

Potassium hydroxide flakes is a non-combustible and non-flammable product.

Self contained isolating protection equipment as needed for the fire fighter.

6 – ACCIDENTAL RELEASE

- Work with personal protective equipment.
- Brush the product into a hermetically sealed container.
- Wash the entire contaminated area liberally with water.
- Prevent any spillage in sewers or waterways
- Residual water disposal into sewer or river is subject to pH being between 5.5 and 8.5.

7 – HANDLING AND STORAGE

Handling : - Avoid dust when handling.
- Capture dust directly.

Storage : - Store in a ventilated place.
- Store in a dry place.
- Store in a cool place.
- Keep the containers closed.

Packaging materials : - Recommended : iron, steel, epoxy resin containers.
- To be avoided : aluminium, zinc, lead or tin containers.

8 – EXPOSURE CONTROL / PERSONAL PROTECTION

Limiting exposure value : Potassium hydroxide : 2 mg/m^3 – TLV (USA) : 2 mg/m^3

Personal protection measures in normal operation :

Eyes : Safety glasses with side shields
Contact lens wearers are strongly advised to use corrective lenses when working in areas where exposure to basic aerosols can occur

Hands : Rubber gloves, PVC or other plastic materials

Skin : Boots, appropriate protective clothing

Inhalation : Dust – resistant mask

Industrial hygiene : Do not breathe in the dust.
Wash hands after having worked with the product.
Avoid contact with skin and eyes

Other information : Glove-rinse, showers and eye-rinse nearby

9 – PHYSICAL AND CHEMICAL PROPERTIES

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Physical state	:	Solid at 20°C, odourless, takes the form of white flakes of 1 to 3 cm in width, and of 0.5 to 0.8 mm in thickness.
PH	:	14
Characteristic temperatures	:	Melting point of the potassium 90% : 200°C
Density	:	apparent : 0.90 real : 2.04
Specific heat:	:	at 25°: 0.24 Kcal/kg/°C
Solubility:	:	in water 1.070 kg/m ³ (at 15°C) in hydrosoluble solvents
Other data:	:	hygroscopic product Sensitive to carbon dioxide in the air (carbonisation)

10 – STABILITY AND REACTIVITY

Hazardous decomposition products: None in normal storage conditions.

Dangerous reactions: chlorinated solvents, acrylonitrile
Forms an explosive combination with: trichlorethylene, 1,2 dichlorethylene, tetrachlorethane, nitroparaffins, ...
Gives off intense heat with water and acids.

Other information: humid, hazardous reactions with some metals (aluminium, zinc, magnesium), gives off hydrogen, a very flammable and explosive gas.

11 – TOXICOLOGICAL INFORMATION

Potassium hydroxide – DL 50 / oral / rat (mg/kg) : 365

- Harmful if ingested (Causes caustic injuries in digestive track, mouth, retrosternal and epigastric pain. Frequent and sometimes bloody vomiting)
- Corrosive, causes burns
- May cause serious eye injuries
- Skin irritant
- Irritant to respiratory tracts

12 – ECOLOGICAL INFORMATION

Behaviour :
- degradability : stable
- biodegradability : stable
- processability : physico-chemical
- bioaccumulation : no

Environmental hazard:
Daphnies: : CL 50 – 24 h : 270 mg/l

13 – DISPOSAL INFORMATION

16 – OTHER INFORMATION

INRS toxicological sheet INRS (1997) N°35: Potassium hydroxide

this product is not concerned with the corrigendum with the directive 2004/73/Ce of the commission of April 29, 2004 bearing twenty-ninth adaptation to the technical progress of directive 67/548/CEE

Reason for the revision :

Addition of the courriel

Inversion of chapter 2 and 3

This sheet supplements but does not override the technical use sheets. The information contained herein is based on our knowledge of the product, on the date indicated above. The information is given in good faith and believed to be true. In addition, users should be aware of the potential risks associated with using a product for uses other than intended use.

In no event does this sheet exempt the user from knowing and complying with all regulations governing user's activity. User is solely responsible for taking all precautions related to the use he/she makes of the product.