



# SAFETY DATA SHEET

## 1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : P 12429  
Product Name : POTASSIUM HYDROXIDE FLAKES

Manufacturer/supplier identification  
Company : NICE Chemicals (P) Ltd., Cochin, India  
Tel - 0484 2800212, 2802755

Contact for information : Tel. No.- 0484 2802536 Fax : 0484 2802483  
Emergency Telephone No. : 0484 2801583 Tele fax No. : 0484 2802483

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : Potash caustic

CAS-No : 1310-58-3      EC No. : 215-183-3  
Molar Mass : 56.11      EC Index No. : 019-002-00-8  
Molecular Formula : KOH

## 3. HAZARDS IDENTIFICATION

Causes severe burns.

## 4. FIRST AID MEASURES :

After inhalation : Fresh air. Summon doctor.  
After skin contact: Wash off with plenty of water. Dab with polyethylene glycol 400. Immediately remove contaminated clothing.  
After eye contact: Rinse out with plenty of water for at least 10 minutes with the eyelid held wide open. Immediately summon eye specialist.  
After swallowing : Make victim drink plenty of water(if necessary several liters),avoid vomiting (risk of perforation ! ). Immediately summon doctor.  
Do not attempt to neutralize.

## 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : In adaption to materials stored in the immediate neighbourhood metals (danger  
Special risks : Hydrogen may form upon contact with light of explosion ! ).  
Special protective equipment for fire fighting : Do not stay in dangerous zone without suitable chemical protection clothing & self contained breathing apparatus

Other information : Non-combustible. Prevent fire fighting water entering surface water or ground water.

## 6. ACCIDENTAL RELEASE MEASURES

Person related precautionary measures : Avoid substance contact. Avoid generation of dusts; do not inhale dusts.  
Procedures for cleaning/absorption : Carefully take up dry. Forward for disposal. Clean up affected area.  
Environmental protection measures : Do not allow to enter sewerage system.  
Additional notes : Render harmless: neutralize with dilute sulphuric acid.



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## 7. HANDLING AND STORAGE

Handling : No further requirements.

Storage temperature : No restrictions.  
Requirements for storage rooms & containers : No aluminium, tin/zinc containers.

## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Respiratory protection: Required when dusts are generated  
Eye Protection : Required  
Hand Protection : Required

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

**Industrial hygiene** : Immediately change contaminated clothing. Apply skin protective barrier cream. Wash hands and face after working with substance.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	Solid
Colour	:	White
Odour	:	Odourless
pH value at 50 g/l H <sub>2</sub> O (20° C)	:	> 13.5
Melting temperature	:	360° C
Boiling temperature	:	1320° C
Ignition temperature	:	Not available
Flash Point	:	Not available
Explosion limit lower	:	Not available
upper	:	Not available
Relative vapour density	:	Not available
Density (20° C)	:	2.04 gm/cm <sup>3</sup>
Solubility in Water (20° C)	:	~1100 gm/lt.
Ethanol (20° C)	:	400 gm/lt.

## 10. STABILITY & REACTIVITY

Conditions to be avoided : No information available.

Substances to be avoided : metals, light metals :

Formation of : hydrogen (risk of explosion!); ammonium compounds, organic combustible substances, alkaline earth metals, halogens, halogen-halogen compounds, halogenated hydrocarbons, nonmetallic oxy halides, halogen oxides, organic nitro compounds, phosphorus, nonmetallic oxides, hydrocarbons, anhydrides, strong acids.

Hazardous decomposition products : No information available

Further information : extremely hygroscopic; exothermic dissolution process with water, incompatible with metals, various plastics, glass animal/vegetable tissues.

## 11. TOXICOLOGICAL INFORMATION

Acute toxicity : LD<sub>50</sub> (oral, rat) : 273 mg/kg



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The literature data available to us do not conform with the labeling prescribed by the EC. The EC has dossiers which have not been published.

Further toxicological information ;  
After inhalation : burns of mucous membranes  
After skin contact : Burns.  
After eye contact : Burns. Risk of blindness !  
After swallowing : Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract. Risk of perforation in the oesophagus and stomach.  
Further data : The product should be handled with the care usual when dealing with chemicals.

## 12. ECOLOGICAL INFORMATION

Ecotoxic effects : Biological effects : Harmful effect due to pH shift. Caustic even in diluted form.  
Toxic for aquatic organisms. LC<sub>50</sub> : 10 mg/l./96 h  
Further ecologic data : Do not allow to enter waters, waste water, or soil !

## 13. DISPOSAL METHOD

Disposal in compliance with official regulations. Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated like house-hold waste or recycled.

There are no uniform EC regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. Approved waste disposal companies which will advise you on how to dispose of special waste.

## 14. TRANSPORT INFORMATION

GGVS/GGVE class : 8                      Number and letter : 41b  
Transport over land                      ADR/RID class : 8                      Number and letter : 41b  
ADR/RID and GGVS/GGVE : Name of material : POTASSIUM HYDROXIDE

Sea Transport IMDG :                      IMDG class : 8                      UN No. : 1813                      Packing group : II  
Ems : 8-06                      MFAG : 705  
Correct Technical Name : POTASSIUM HYDROXIDE

Air Transport ICAO-TI                      ICAO/IATA class : 8                      UN No. : 1813  
and IATA-DGR :                      Packaging group : II  
Correct Technical Name : POTASSIUM HYDROXIDE

## 15. REGULATORY INFORMATION

Labeling according to EC Directives

Symbol :                      C                      Corrosive  
R-phrases :                      35                      Causes severe burns.  
S-phrases :                      26-37/39-45                      In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing and gloves and face protection. In case of accident or if you feel unwell, seek



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medical advice immediately(show the label where possible).

EC-No. : 215-181-3 EC label

Water pollution class : 1 (slightly polluting substance)

### 16. OTHER INFORMATION

Reason for alteration

Addition in the chapter ecology.

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.