



# **SAFETY DATA SHEET**

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

Catalogue No. : S 12829  
Product Name : SODIUM 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 Telefax No. : 0484 2802483

## **2. COMPOSITION/INFORMATION ON INGREDIENTS**

CAS-No : 1310-73-2 Ec-Index No. : 011-002-00-6  
Molar Mass : 40.00 EC-No. : 215-185-5  
Molecular Formula : NaOH

## **3. HAZARDS INDEX**

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 litres), avoid vomiting(risk of perforation). Immediately summon doctor. Do not attempt to neutralize.

## **5. FIRE-FIGHTING MEASURES :**

Suitable extinguishing media : CO<sub>2</sub> powder.  
Cover with dry sand or cement. Fire extinguisher:  
powder for glowing fire, carbon dioxide.

Special risks : Non-combustible. Ambient fire may liberate hazardous vapours. Hydrogen may form upon contact with light metals (danger of explosion!).

Special protective equipment for fire fighting :  
Do not stay in dangerous zone without suitable chemical protection clothing and self contained breathing apparatus.

Other information : Prevent fire fighting water entering surface water or ground water. Contain escaping vapours with water.



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### **6. ACCIDENTAL RELEASE MEASURES**

Person related precautionary measures : Avoid generation of dusts; do not inhale dusts.

Avoid substance contact. Ensure supply of fresh air in enclosed rooms.

Environmental protection measures : Do not allow to enter sewerage system.

Procedures for cleaning/absorption : Carefully take up dry. Forward for disposal. Clean up affected area.

Additional notes : Render harmless: neutralize with dilute sulphuric acid.

**7. HANDLING AND STORAGE** : Handling : No further requirements.  
Storage : Tightly closed. Dry. Away from acids.  
Storage temperature : No restrictions. Requirements for storage rooms and containers : No aluminium, tin, or 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 quality 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)	: ~14
Melting temperature	: 324° C
Boiling temperature	: 1390° C
Ignition temperature	: Not available
Flash Point	: Not applicable
Explosion limit lower	: Not available
upper	: Not available
Relative vapour density	: Not available



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Density (25 ° C) : 2.13 g/cm<sup>3</sup>  
Solubility in Water (20 ° C) : 1090 gm/lt.  
Water (100 ° C) : 3350 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 ! ); acids, nitrites, alkaline earth metals  
in powder form, ammonium compounds, cyanides, magnesium, organic nitro  
compounds, organic combustible substances, phenols and oxidisable substances.  
  
Hazardous decomposition products : No information available.  
Further information : Hygroscopic.

### 11. TOXICOLOGICAL INFORMATION

Acute toxicity : Quantitative data on the toxicity of this product are not available.

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 : Decomposition of the substance with tissue moisture.

The product should be handled with the care usual when dealing with chemicals.

### 12. ECOLOGICAL INFORMATION : Biologic degradation : biologically nondegradable.

Ecotoxic effects : Biological effects : Toxic effect on fish and plankton.  
Harmful effect due to pH shift. Death of fish possible. Does not cause biological  
oxygen deficit. Neutralization possible in waste water treatment plants.  
Fish toxicity : LC<sub>50</sub> : 189 mg/lt.(1 N soln. = 4 gm/lt.);  
fish EC<sub>0</sub> : <20 mg/lt.; aquatic organisms LC<sub>50</sub> : 10 - 100 mg/lt./96h;

Further ecologic data : Do not allow to enter water, 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.



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### **14. TRANSPORT INFORMATION :**

Transport over land

ADR/RID and GGVS/GGVE : GGVS/GGVE class : 8 Number and letter : 4lb  
ADR/RID class : 8 Number and letter : 4lb  
Name of material : SODIUM HYDROXIDE FLAKES

Sea Transport IMDG : IMDG class : 8 UN No. : 1823 Packing group : II  
Ems : 8-06 MFAG : 705  
Correct Technical Name : SODIUM HYDROXIDE FLAKES

Air Transport ICAO-TI  
and IATA-DGR : ICAO/IATA class : 8 UN No. : 1823  
Packaging group : II  
Correct Technical Name : SODIUM HYDROXIDE FLAKES

### **15. REGULATORY INFORMATION**

Labelling 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 gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Water pollution class : 1 (slightly polluting substance)

### **16. OTHER INFORMATION :**

Reason for alteration

Specific control parameter.  
General update.

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.