



## Material Safety Data sheet

### 1. Identification

#### Product identifier

Other means of identification	<b>Sodium Hydroxide</b> Flakes
Product code	1310-73-2
Recommended use	Laboratory chemicals, Industrial & for professional use only
Recommended restrictions	For industrial use only.

#### Manufacturer/Importer/Supplier/Distributor information

Manufacturer	
Company name	TIDY Company
Address	IRAN
Telephone	+982188191753 +982188190269
E-mail	info@tidyco.ir

### 2. Hazard(s) identification

#### Classification of the substance or mixture

<b>Classification according to Regulation (EC) No 1272/2008</b>	Corrosive to metals (Category 1), H290 Skin corrosion (Category 1A), H314 For the full text of the H-Statements mentioned in this Section, see Section 16.
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<b>Classification according to EU Directives 67/548/EEC or 1999/45/EC</b>	CCorrosiveR35 For the full text of the R-phrases mentioned in this Section, see Section 16. Label elements
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<b>Labelling according Regulation (EC) No 1272/2008</b>	Pictogram
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Signal word

Danger





Hazard statement(S)  
H290  
H314

May be corrosive to metals.  
Causes severe skin burns and eye damage

**Precautionary statement(S)**

P280  
P305 + P351 + P338  
P310  
Supplemental Hazard  
Statements  
**Other hazards**

Wear protective gloves/ protective clothing/ eye  
protection/ face protection.  
IF IN EYES: Rinse cautiously with water for several  
minutes. Remove contact lenses, if present and  
easy to do. Continue rinsing. Immediately call a  
POISON CENTER or doctor/physician.  
none

### 3. Composition/information on ingredients

**Substances**

Molecular Weight 40 g/mol  
CAS-No 1310-73-2  
EC-No 215-185-5  
Index-No 011-002-00-6

**Hazardous ingredients according to Regulation (EC) No 1272/2008**

Component		Classification	Concentration
Sodium hydroxide			
CAS-No	1310-73-2	Met. Corr. 1; Skin Corr. 1A	<= 100 %
EC-No	215-185-5	H290, H314	
Index-No.	011-002-00-6		
Registration number	01-2119457892-27-XXXX		

**Hazardous ingredients according to Directive 1999/45/EC**

Component		Classification	Concentration
Sodium hydroxide			
CAS-No	1310-73-2	C, R35	<= 100 %
EC-No	215-185-5	H290, H314	
Index-No.	011-002-00-6		
Registration number	01-2119457892-27-XXXX		

For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section 16





#### 4. First-aid measures

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##### Description of first aid measures

##### General advice Eye contact

Consult a physician. Show this safety data sheet to the doctor in attendance

##### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

##### In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

##### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

##### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

##### Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

##### Indication of any immediate medical attention and special treatment needed

no data available

#### 5. Fire-fighting measures

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##### Extinguishing media Suitable

##### extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

##### Special hazards arising from the substance or mixture

Sodium oxides

##### Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

##### Further information

no data available





## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.
<b>Methods and materials for containment and cleaning up</b>	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal
<b>Reference to other sections</b>	For disposal see section 13
<b>Environmental precautions</b>	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## 7. Handling and storage

<b>Precautions for safe handling</b>	Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2
<b>Conditions for safe storage, including any incompatibilities</b>	Store in cool place. Keep container tightly closed in a dry and well-ventilated place
<b>Specific end use(s)</b>	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## 8. Exposure controls/personal protection

<b>Control parameters</b>	Components with workplace control parameters
<b>Exposure controls Appropriate engineering controls</b>	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday
<b>Personal protective equipment Eye/face protection</b>	Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
<b>Skin protection</b>	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.





### Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

<b>Appearance</b>	Form: flakes Colour: white
<b>Odor</b>	Odorless
<b>Odor threshold</b>	no data available
<b>pH</b>	14 at 50 g/l at 20°C
<b>Melting point/freezing Point</b>	318 °C
<b>Initial boiling point and boiling range</b>	1.390 °C
<b>Flash point</b>	Not applicable
<b>Evaporation rate</b>	no data available
<b>Flammability (solid, gas)</b>	no data available
<b>Upper/lower flammability or explosive limits</b>	no data available
<b>Vapour pressure</b>	< 24,00 hPa at 20°C
<b>Partition coefficient: n octanol/water</b>	4,00 hPa at 37 °C
<b>Auto-ignition Temperature</b>	no data available





#### Decomposition Temperature

no data available

#### Viscosity

#### Explosive properties

no data available

#### Oxidizing properties

no data available

#### Other safety information

no data available

#### Bulk density

#### Relative vapour density

ca.1.150 kg/m<sup>3</sup>

1,38 - (Air = 1.0)

### 10. Stability and reactivity

#### Reactivity

no data available

#### Chemical stability

Stable under recommended storage conditions.

#### Possibility of hazardous reactions

no data available.

#### Conditions to avoid

no data available.

#### Incompatible materials

Strong oxidizing agents, Strong acids, Organic materials

#### Hazardous decomposition products

In the event of fire: see section 5

### 11. Toxicological information

#### Information on toxicological effects Acute

#### toxicity

no data available

#### Skin corrosion/irritation

Skin - rabbit

Result: Causes severe burns. - 24 h

#### Respiratory or skin sensitisation

Will not occur

#### Germ cell mutagenicity

no data available

#### Carcinogenicity IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC

#### Reproductive toxicity

no data available

#### Specific target organ toxicity - single exposure

no data available

#### Specific target organ toxicity - repeated exposure

no data available





**Aspiration hazard**

RTECS: no data available

**Additional Information**

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.

**12. Transport information**

**Toxicity**

Toxicity to fish

LC50 - *Gambusia affinis* (Mosquito fish) - 125 mg/l - 96 h  
LC50 - *Oncorhynchus mykiss* (rainbow trout) - 45,4 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates

Immobilization EC50 - *Daphnia* - 40,38 mg/l - 48 h

**Persistence and degradability**

The methods for determining the biological degradability are not applicable to inorganic substances

**Bioaccumulative potential**

no data available

**Mobility in soil**

no data available

**Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Other adverse effects**

Harmful to aquatic life

**13. Disposal considerations**

**Waste treatment methods Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber

**Contaminated packaging**

Dispose of as unused product

**14. Other information, including date of preparation or last revision**

**UN number**

ADR/RID: 1823 IMDG: 1823 IATA: 1823

**UN proper shipping name**

ADR/RID: SODIUM HYDROXIDE, SOLID  
IMDG: SODIUM HYDROXIDE, SOLID  
IATA: Sodium hydroxide, solid

**Transport hazard class(es)**

ADR/RID: 8 IMDG: 8 IATA: 8

**Packaging group**





We are dedicated to providing the best

● Quality ● Value ● Service



ADR/RID: II      IMDG: II      IATA: II

**Environmental hazards**

ADR/RID: no      IMDG Marine pollutant: no IATA: no

**Special precautions for user**

no data available

**15. Regulatory information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006

Safety, health and environmental regulations/legislation specific for no data available the substance or mixture

**Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out

**16. Other information**

**Full text of H-Statements referred to under sections 2 and 3.**

H290      May be corrosive to metals.  
H314      Causes severe skin burns and eye damage.  
Met. Corr.      Corrosive to metals  
Skin Corr.      Skin corrosion

**Full text of R-phrases referred to under sections 2 and 3**

C      Corrosive  
R35      Causes severe burns.

**Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.cdhfinechemical.com](http://www.cdhfinechemical.com) for additional terms and conditions of sale.

