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## MATERIAL SAFETY DATA SHEET (MSDS)

### SODIUM HYDROXIDE FLAKES LR

#### 1. Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

Trade name : SODIUM HYDROXIDE FLAKES LR

Product code : S0188405000

Identification of the product : Hidróxido de sodio  
 CAS No: 1310-73-2

##### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use : Industrial. For professional use only.

##### 1.3. Details of the supplier of the safety data sheet

Company identification  
 SUVCHEM  
 Chaitanya Tower, 2nd Floor, Office # 206,  
 Siddharth Nagar, S.V. Road,  
 Goregaon (West), Mumbai - 400062,  
 Maharashtra, India.  
 Contact: +91 22 28725393 / 94 / 95  
 Email ID: info@suvchem.com/care@suvchem.com

##### 1.4. Emergency telephone number

Phone no. : + 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [ Office hours ]

#### 2. Hazards identification -DSD

##### 2.1. Classification of the substance or mixture

##### Classification EC 67/548 or EC 1999/45

Classification : C; R35

##### Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards : Serious eye damage - Category 1 - Danger (CLP : Eye Dam. 1) H318  
 Skin corrosion - Category 1A - Danger (CLP : Skin Corr. 1A) H314

##### 2.2. Label elements

##### Labelling EC 67/548 or EC 1999/45

Symbol(s)



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**SODIUM HYDROXIDE FLAKES LR**
**2. Hazards identification -DSD (continued)**

**Symbol(s)** : C : Corrosive  
**R Phrase(s)** : R35 : Causes severe burns.  
**S Phrase(s)** : S1/2 : Keep locked up and out of reach of children.  
 S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 S37/39 : Wear suitable gloves and eye/face protection.  
 S45 : In case of accident or if you feel unwell, seek medical advice immediately ( show the label when possible).

**Contains** : Hidróxido de sodio

**Labelling Regulation EC 1272/2008 (CLP)**
**Hazard pictograms**


**Signal words** : Danger  
**Hazard statements** : H314 : Causes severe skin burns and eye damage.

**Precautionary statements**

**• General** : P102: Keep out of reach of children.  
 P103: Read label before use.  
 P101: If medical advice is needed, have product container or label at hand.  
**• Prevention** : P280: Wear protective gloves, protective clothing, eye protection, face protection.  
 P260: Do not breathe dust, fume, gas, mist, vapours, spray.  
 P264: Wash thoroughly after handling.  
**• Response** : P301+P330+P331: IF SWALLOWED : Rinse mouth. Do NOT induce vomiting.  
 P305+P351+P338: IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P303+P361+P353: IF ON SKIN (or hair) : Remove immediately all contaminated clothing. Rinse skin with water/shower.  
 P363: Wash contaminated clothing before reuse.  
**• Storage** : P405: Store locked up.  
**• Disposal considerations** : P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

**Contains** : Hidróxido de sodio

**2.3. Other hazards**

**Other hazards** : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

**3. Composition/information on ingredients**

**Substance / Preparation** : Hidróxido de sodio  
 Substance.

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### SODIUM HYDROXIDE FLAKES LR

#### 3. Composition/information on ingredients (continued)

| Substance name     | Contents | CAS No    | EC No | Annex No | REACH Ref. | Classification                           |
|--------------------|----------|-----------|-------|----------|------------|--|
| Hidróxido de sodio | 100 %    | 1310-73-2 | ----  | ----     | ----       | C; R35                                   |
|                    |          |           |       |          |            | Skin Corr. 1A _ H314<br>Eye Dam 1 _ H318 |

Contains no other components or impurities which will influence the classification of the product.

#### 4. First aid measures

##### 4.1. Description of first aid measures

|              |  |
|--------------|--|
| Inhalation   | : Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor.  |
| Skin contact | : Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Immediately call a POISON CENTER or doctor.                           |
| Eye contact  | : Immediately call a POISON CENTER or doctor. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. |
| Ingestion    | : Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting.   |

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

|                          |  |
|--------------------------|--|
| Symptoms relating to use | : Causes severe skin burns and eye damage. |
|--------------------------|--|

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

|                     |   |
|---------------------|---|
| General information | : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). |
|---------------------|---|

#### 5. Fire-fighting measures

##### 5.1. Extinguishing media

|                                |  |
|--------------------------------|--|
| Suitable extinguishing media   | : Foam. Dry powder. Carbon dioxide. Water spray. Sand.   |
| Unsuitable extinguishing media | : Do not use a heavy water stream.                       |
| Surrounding fires              | : Use water spray or fog for cooling exposed containers. |

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

|                               |   |
|-------------------------------|---|
| Hazardous combustion products | : Under fire conditions, hazardous fumes will be present.<br>Thermal decomposition generates : Corrosive vapours. |
|-------------------------------|---|

##### 5.3. Advice for fire-fighters

|                         |  |
|-------------------------|--|
| Protection against fire | : Do not enter fire area without proper protective equipment, including respiratory protection.              |
| Special procedures      | : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment. |

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**SODIUM HYDROXIDE FLAKES LR**
**6. Accidental release measures**
**6.1. Personal precautions, protective equipment and emergency procedures**

**For emergency responders** : Equip cleanup crew with proper protection. Ventilate area.

**For non-emergency personnel** : Evacuate unnecessary personnel.

**6.2. Environmental precautions**

**Environmental precautions** : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

**6.3. Methods and material for containment and cleaning up**

**Clean up methods** : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

**6.4. Reference to other sections**

See section 8. Exposure controls/personal protection

**7. Handling and storage**
**7.1. Precautions for safe handling**

**Handling** : Do not breathe dust, fume, gas, mist, vapours, spray. Avoid contact during pregnancy or while nursing. Wash thoroughly after handling.

**Technical protective measures** : Provide good ventilation in process area to prevent formation of vapour.

**7.2. Conditions for safe storage, including any incompatibilities**

**Storage** : Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.

**Storage regulation** : Comply with applicable regulations.

**Storage - away from** : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

**7.3. Specific end use(s)**

**Specific end use(s)** : None.

**8. Exposure controls/personal protection**
**8.1. Exposure controls**

**Personal protection** : Avoid all unnecessary exposure.

**MATERIAL SAFETY DATA SHEET (MSDS)**
**SODIUM HYDROXIDE FLAKES LR**
**8. Exposure controls/personal protection (continued)**

- |                          |   |
|--------------------------|---|
| • Respiratory protection | : Wear approved mask.                     |
| • Hand protection        | : Wear protective gloves.                 |
| • Skin protection        | : Wear suitable protective clothing.      |
| • Eye protection         | : Chemical goggles or face shield.        |
| • Others                 | : When using, do not eat, drink or smoke. |

**8.2. Control parameters**

Occupational Exposure Limits : No data available.

**9. Physical and chemical properties**
**9.1. Information on basic physical and chemical properties**

|                                    |                        |
|------------------------------------|------------------------|
| Physical state at 20 °C            | : Solid.               |
| Colour                             | : White flakes         |
| Odour                              | : Odorless             |
| Odour threshold                    | : No data available.   |
| pH value                           | : No data available.   |
| Melting point [°C]                 | : 318 °C               |
| Decomposition point [°C]           | : N/A                  |
| Critical temperature [°C]          | : N/A                  |
| Auto-ignition temperature [°C]     | : N/A                  |
| Flammability (solid, gas)          | : N/A                  |
| Flash point [°C]                   | : N/A                  |
| Boiling point [°C]                 | : 13900C               |
| Initial boiling point [°C]         | : N/A                  |
| Final boiling point [°C]           | : N/A                  |
| Evaporation rate                   | : N/A                  |
| Vapour pressure [20°C]             | : < 24 hPa at 20 °C    |
| Vapour pressure mm/Hg              | : N/A                  |
| Vapour density                     | : >1                   |
| Density [g/cm3]                    | : 2,13                 |
| Relative density, gas (air=1)      | : N/A                  |
| Relative density, liquid (water=1) | : N/A                  |
| Solubility in water [% weight]     | : 111 g/100 g of water |
| Solubility in water                | : N/A                  |
| Log Pow octanol / water at 20°C    | : No data available.   |
| Solubility                         | : 13 - 14              |
| Viscosity at 40°C [mm2/s]          | : N/A                  |

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**SODIUM HYDROXIDE FLAKES LR**
**9. Physical and chemical properties (continued)**
**9.2. Other information**

|                              |                      |
|------------------------------|----------------------|
| Explosive properties         | : N/A                |
| Explosion limits - upper [%] | : N/A                |
| Explosion limits - lower [%] | : N/A                |
| Oxidising properties         | : No data available. |

**10. Stability and reactivity**
**10.1. Reactivity**

|            |                    |
|------------|--------------------|
| Reactivity | : Not established. |
|------------|--------------------|

**10.2. Chemical stability**

|                    |  |
|--------------------|--|
| Chemical stability | : Stable under recommended storage conditions. |
|--------------------|--|

**10.3. Possibility of hazardous reactions**

|                     |                    |
|---------------------|--------------------|
| Hazardous reactions | : Not established. |
|---------------------|--------------------|

**10.4. Conditions to avoid**

|                     |  |
|---------------------|--|
| Conditions to avoid | : Direct sunlight. Extremely high or low temperatures. |
|---------------------|--|

**10.5. Incompatible materials**

|                    |                               |
|--------------------|-------------------------------|
| Materials to avoid | : Strong acids. Strong bases. |
|--------------------|-------------------------------|

**10.6. Hazardous decomposition products**

|                                  |   |
|----------------------------------|---|
| Hazardous decomposition products | : Fumes. Carbon monoxide. Carbon dioxide.<br>Thermal decomposition generates : Corrosive vapours. |
|----------------------------------|---|

**11. Toxicological information**
**11.1. Information on toxicological effects**
**Acute toxicity**

|              |   |
|--------------|---|
| • Inhalation | : Based on available data, the classification criteria are not met. |
| • Dermal     | : Based on available data, the classification criteria are not met. |
| • Ingestion  | : Based on available data, the classification criteria are not met. |

**Corrosion**

|  |
|--|
| : Causes severe skin burns and eye damage.<br>Causes serious eye damage. |
|--|

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### SODIUM HYDROXIDE FLAKES LR

#### 11. Toxicological information (continued)

|                               |   |
|-------------------------------|---|
| <b>Irritation</b>             | : Based on available data, the classification criteria are not met. |
| <b>Sensitization</b>          | : Based on available data, the classification criteria are not met. |
| <b>Mutagenicity</b>           | : Based on available data, the classification criteria are not met. |
| <b>Carcinogenicity</b>        | : Based on available data, the classification criteria are not met. |
| <b>Toxic for reproduction</b> | : Based on available data, the classification criteria are not met. |
| <b>STOT-single exposure</b>   | : Based on available data, the classification criteria are not met. |
| <b>STOT-repeated exposure</b> | : Based on available data, the classification criteria are not met. |
| <b>Aspiration hazard</b>      | : Based on available data, the classification criteria are not met. |

#### 12. Ecological information

##### 12.1. Toxicity

**Toxicity information** : Not established.

##### 12.2. Persistence - degradability

**Persistence - degradability** : Biodegradable.

##### 12.3. Bioaccumulative potential

**Bioaccumulative potential** : Not established.

##### 12.4. Mobility in soil

**Mobility in soil** : Not established.

##### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

##### 12.6. Other adverse effects

**Environmental precautions** : Avoid release to the environment.

#### 13. Disposal considerations

##### 13.1. Waste treatment methods

**General** : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.  
 Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.



**MATERIAL SAFETY DATA SHEET (MSDS)**  
**SODIUM HYDROXIDE FLAKES LR**
**14. Transport information**
**14.1. Land transport (ADR-RID)**

Proper shipping name : SODIUM HYDROXIDE, SOLID  
 UN N° : 1823  
 H.I. nr : 80  
 ADR - Class : 8  
 Labelling - Transport : 8 : Corrosive substance.



ADR - Classification code : C6  
 ADR - Group : II  
 ADR - Packing instructions : P002  
 ADR - Limited Quantity : 1 KG  
 ADR - Tunnel code : E : Passage forbidden through tunnels of category E.


**14.2. Sea transport (IMDG) [English only]**

Proper shipping name : SODIUM HYDROXIDE, SOLID  
 UN N° : 1823  
 IMO-IMDG - Class or division : 8 : Corrosive substance.  
 IMO-IMDG - Packing group : II  
 IMO-IMDG - Packing instructions : P002  
 IMO-IMDG - Limited quantities : 1 kg  
 IMO-IMDG - Marine pollution : No  
 EMS-Nr : F-A S-B

**14.3. Air transport (ICAO-IATA) [English only]**

Proper shipping name : SODIUM HYDROXIDE, SOLID  
 UN N° : 1823  
 IATA - Class or division : 8 : Corrosive substance.  
 IATA - Packing group : II  
 IATA - Passenger and Cargo Aircraft : ALLOWED  
 - Passenger and Cargo - Packing instruction : 859



## MATERIAL SAFETY DATA SHEET (MSDS)

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

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