

# Safety Data Sheet

## 1. IDENTIFICATION

**Product Identifier:** CAUSTIC SODA FLAKES  
 HS Code: 28151110  
**Other Name(s):** Sodium Hydroxide  
 Chemical Formulation: NaOH  
**Recommended Use and Restrictions on Use:** not available  
**Manufactured By:** Arax Chemistry Co.  
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 Mother Square, Tehran, Iran  
 www.AraxChemi.com

Date of Revision: May 01, 2021

**Contact Details:**  
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In Case of Emergency Only, Phone  
 +989120850450

## 2. HAZARDS IDENTIFICATION

**Classification of the Mixture:** Eye Damage/Irritation - Category 1  
 Skin Corrosion/Irritation - Category 1  
 Corrosive to Metals - Category 1

**Label Elements:**

Hazard Pictogram(s):



Signal Word: DANGER

**Hazard Statement(s):** Causes severe skin burns and eye damage.  
 May be corrosive to metals.

**Precautionary Statement(s):**

**Prevention:** Do not breathe dusts or mists.  
 Wash hands thoroughly after handling.  
 Wear protective gloves, protective clothing, and eye/face protection.  
 Keep only in original packaging.

**Response:** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a poison centre or physician.  
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. Immediately call a poison centre or physician.  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison centre or physician.  
 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 centre or physician.  
 Absorb spillage to prevent material-damage.

**Storage:** Store locked up.  
 Store in a corrosion resistant container with a resistant inner liner.

**Disposal:** Dispose of contents/container in accordance with local/regional/national/international regulations.

**Physical/health hazards not otherwise classified:**  
 not applicable

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Conc.</u>	<u>CAS #</u>	<u>Common Names</u>
sodium hydroxide	98-99%	1310-73-2	caustic soda

## 4. FIRST-AID MEASURES

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**Necessary Measures:**

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a poison centre or physician.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. Immediately call a poison centre or physician.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison centre or physician.  
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 centre or physician.  
Absorb spillage to prevent material-damage.

**Most important symptoms, both acute and delayed:**

Causes serious eye damage.  
Causes severe skin burns and eye damage.

**Indication of immediate medical attention and special treatment needed, if necessary:**

not applicable

## 5. FIRE-FIGHTING MEASURES

**Suitable (and unsuitable) extinguishing media:**

Use extinguishing media appropriate for surrounding fire.

**Specific hazards arising from the chemical (e.g.: hazardous combustion products):**

May liberate carbon monoxide, carbon dioxide and oxides of sodium.

**Special protective equipment and precautions for firefighters:**

As for surrounding fire. Firefighters should wear full protective clothing and self contained breathing equipment.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:**

Wear appropriate protective equipment. See section 8.

**Environmental precautions:**

Prevent from entering sewers, waterways or low areas.

**Methods and materials for containment and cleaning up:**

Isolate hazard area and restrict access. Small spills: soak up with inert absorbent material and scoop into containers. Large spills: prevent contamination of waterways. Dike and pump into suitable containers. Clean up residual with absorbent material, place in appropriate container and flush with water.

## 7. HANDLING AND STORAGE

**Precautions for safe handling:**

Do not breathe dusts or mists.  
Wash hands thoroughly after handling.  
Keep only in original packaging.  
Do not ingest. Avoid contact with eyes, skin and clothing.

**Conditions for safe storage, including any incompatibilities:**

Store locked up.  
Store in a corrosion resistant container with a resistant inner liner.  
Keep out of reach of children. Store in a cool, dry area.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters - Exposure limits:**

Ingredient: \_\_\_\_\_

sodium hydroxide

**Appropriate engineering controls:**

Provide exhaust ventilation to keep airborne levels below recommended exposure limits.

**Respiratory protection:**

If exposure exceeds occupational exposure limits, use an appropriate NIOSH approved respirator.

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**Other protection:**

Wear protective gloves, protective clothing, and eye/face protection.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance (physical state, colour etc.):</b>	White Flakes
<b>Odour:</b>	no odour
<b>Odour threshold:</b>	not available
<b>pH:</b>	1% sol. 12.6
<b>Melting/Freezing point:</b>	not available
<b>Initial boiling point and range:</b>	not available
<b>Flash point:</b>	not applicable
<b>Evaporation rate:</b>	not available
<b>Flammability (solid, gas):</b>	not available
<b>Upper/lower flammability or explosive limits:</b>	not available
<b>Vapour pressure:</b>	not available
<b>Vapour density:</b>	not available
<b>Relative density (specific gravity):</b>	1.000
<b>Solubility(ies):</b>	347g/100g water at 100c
<b>Partition co-efficient: n-octanol/water:</b>	not available
<b>Auto-ignition temperature:</b>	not available
<b>Decomposition temperature:</b>	not available
<b>Viscosity:</b>	not available

## 10. STABILITY AND REACTIVITY

**Reactivity:**

This material is considered to be non-reactive under normal use conditions.

**Chemical stability:**

Stable.

**Possibility of hazardous reactions:**

Reacts with acids and metals

**Conditions to avoid (e.g.: static discharge, shock or vibration):**

not applicable

**Incompatible materials:**

Oxidizers / Acid

**Hazardous decomposition products:**

not available

## 11. TOXICOLOGICAL INFORMATION

**POTENTIAL ACUTE HEALTH EFFECTS**

<b>Inhalation:</b>	May cause respiratory tract irritation.
<b>Ingestion:</b>	May be harmful if swallowed.
<b>Eye contact:</b>	Causes serious eye damage.
<b>Skin contact:</b>	Causes severe skin burns and eye damage.
<b>Skin absorption:</b>	not available

**POTENTIAL CHRONIC HEALTH EFFECTS**

<b>Inhalation:</b>	not available
<b>Ingestion:</b>	not available
<b>Eye contact:</b>	not available
<b>Skin contact:</b>	not available
<b>Skin absorption:</b>	not available

**Mutagenicity:**

not available

**Carcinogenicity:**

This information, if applicable, can be found in Section 2.

**Reproductive toxicity:**

This information, if applicable, can be found in Section 2.

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**Sensitization of product:** This information, if applicable, can be found in Section 2.  
**Specific Target Organ Toxicity - single exposure:** This information, if applicable, can be found in Section 2.  
**Specific Target Organ Toxicity - repeated exposure:** This information, if applicable, can be found in Section 2.

**Toxicological Data:**

Ingredient:

sodium hydroxide

Data:

not available

**Other Toxicological Information on Ingredients:**

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity (aquatic and terrestrial, where available):** not available

**Persistence and degradability:** not available

**Bioaccumulative potential:** not available

**Mobility in soil:** not available

**Other adverse effects:** not available

**Ecological Information on Ingredients:** not available

## 13. DISPOSAL CONSIDERATIONS

**Waste disposal:** Disposal of all waste must be done according to local, provincial and federal regulations.

## 14. TRANSPORT INFORMATION

**TDG classification:** UN 1823; SODIUM HYDROXIDE, SOLID; CLASS 8; PG II

## 15. REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

## 16. PREPARATION INFORMATION

**Prepared by:** Arax Chemistry Co. Ph.: +989120850450

**Date of Preparation:** January 22, 2017

**Date of Revision:** May, 01, 2021

This Safety Data Sheet may not be changed or altered in any way without the express knowledge and permission of Arax Chemistry Co.

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