

MATERIAL SAFETY DATA SHEET

Version :01

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PRODUCT NAME: SODIUM HYDROXIDE FLAKES CAS Number: 1310-73-2

1. IDENTIFICATION:

Product Code : 90549

Company Name : ADVENT CHEMBIO PRIVATE LIMITED

Address W-279, MIDC, TTC INDUSTRIAL AREA, THANE-BELAPUR ROAD, RABALE,

NAVI MUMBAI - 400 701.

E-mail : sales@adventchembio.com

WEBSITE : <u>www.adventchembio.com</u>

Company Phone Number : 022-27690837

2. HAZARDS IDENTIFICATION:

Hazard classification

Physical hazards

Corrosive to Metals : Category 1

Health hazards

Hazard symbol

Signal word

Skin corrosion : Sub-Category 1A

Serious eye damage : Category 1

Labels elements :

Hazard statement

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

Precautionary statement

Prevention: Obtain special instructions before use.

Do not breathe dust. Do not handle until all safety precautions have been read and

understood.

Wear protective gloves/ protective clothing/ eye protection/ face protection. Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.

Keep container tightly closed. Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools. Take precautionary measures against static discharge.

Response : IF exposed or concerned: Get medical advice/ attention.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/

shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.



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Storage

: Store in a dry & well-ventilated place. Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Disposal

: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal

Other hazards which do not : result in GHS classification

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at

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levels of 0.1% or higher.

3.	COMPOSITION/	INFORMATION	ON INGRADIENTS:
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IngredientCAS NumberPercentHazardousSodium Hydroxide Flakes1310-73-2NLT 95.0%Yes

4. FIRST AID MEASURES:

General information

: Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in

attendance.

Ingestion

Call a physician or poison control center immediately. Rinse mouth. Do NOT induce

: vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the

lungs.

Move to fresh air. Call a physician or poison control center immediately. If breathing stops,

Inhalation

provide artificial respiration. If breathing is difficult, give oxygen.

Get medical attention if symptoms persist.

Skin contact

Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact

lenses. Get medical attention.

Eye contact

Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact

lenses. Get medical attention.

Most important

symptoms/effects, acute

and delayed

Indication of immediate medical attention and

special treatment needed

: The most important known symptoms and effects are described in the labelling.

: No data available

5. FIRE FIGHTING MEASURES:

General information

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding

environment.

Unsuitable extinguishing

media

For this substance/mixture no limitations of extinguishing agents are given.

Specific hazards arising from the chemical

: Sodium oxides, Not combustible. Ambient fire may liberate hazardous vapors.



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Special protective equipment and precautions for firefighters

Special firefighting Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting procedures

the fire. Fight fire from a protected location. Move containers from fire area if you can do so

without risk.

Firefighters must use standard protective equipment including flame retardant coat, helmet Special protective

equipment for fire-fighters with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

ACCIDENTAL RELEASE MEASURES:

Personal precautions, ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). protective equipment and Avoid breathing mists or vapors. Keep upwind. Ventilate closed spaces before entering emergency procedures

them. Do not touch damaged containers or spilled material unless wearing appropriate

protective clothing. Keep unauthorized personnel away.

Methods and material for containment and cleaning up

Eliminate all ignition sources if safe to do so. Use only non-sparking tools. Take precautionary measures against static discharges. Stop leak if possible without any risk.

Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.

Notification Procedures

Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if

large amounts are involved.

Environmental precautions

Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do

so. Avoid discharge into drains, water courses or onto the ground.

HANDLING AND STORAGE:

Precautions for safe handling

Do not handle until all safety precautions have been read and understood. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Ground/bond

container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Wear protective gloves/protective clothing/eye protection/ face protection.

Avoid contact with eyes, skin, and clothing. Do not breathe mist or vapor. Use only with adequate ventilation. Wash hands thoroughly after handling.

Conditions for safe storage, including any

incompatibilities well-ventilated place.

Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a dry,



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8. EXPOSURE CONTROLS PERSONAL PROTECTION:

Control parameters

Ingredients with workplace control parameters

Derived No Effect Level (DNEL)

Application Area Routes of Health effect Value

exposure

Workers Inhalation Long-term local effects 1 mg/m3

Consumers Inhalation Long-term local effects 1 mg/m3

Appropriate engineering

Hygiene measures

controls : No data available

Individual protection measures, such as personal protective equipment

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation

rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended

General information: vertification, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an

acceptable level. An eye wash and safety shower must be available in the immediate work

area. Use explosion-proof ventilation equipment.

Eye/face protection . Use equipment for eye protection tested and approved under appropriate government

standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles.

Hand protection . Chemical resistant gloves.

Other . Wear suitable protective clothing.

Respiratory protection . Required when dusts are generated.

Always observe good personal hygiene measures, such as washing after handling the

material and before eating, drinking, and/or smoking. Routinely wash work clothing and

 $protective\ equipment\ to\ remove\ contaminants.\ Provide\ eyewash\ station\ and\ safety\ shower.$

Avoid contact with eyes, skin, and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance : White deliquescent flakes.

Odor : Odorless

Solubility : Soluble in water.

Formula : NaOH

Molecular Weight : 40.00 g/mol

Density : 2.13 g/cm3 at 20 °C

pH : > 14 at 100 g/l at 20 °C



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% Volatiles by volume @

21C (70F)

: No data available.

Boiling Point : 1.390°C **Melting Point** : 318°C

Flash Point : No data available.

Vapor Density (Air=1) : 1.38

Vapor Pressure (mm Hg) : No data available.

Evaporation Rate (BuAc=1) : No data available.

10. STABILITY AND REACTIVITY:

Reactivity : No data available.

Chemical stability : Material is stable under ambient conditions..

Possibility of hazardous

Violent reactions possible with:

reactions

Acetone, Chlorine. Ethylene oxide, Fluorine, Hydrogen halides, Hydrazine hydrate, hydroxylamine, Acid anhydrides, Acrolein, Acid chlorides, Acids, sulfuric acid, Chloroform, Water, hydrogen peroxide, anhydrides, phosphides, halogen-halogen compounds,

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trichloroethene.

Can decompose violently in contact with:Organic Substances, hydrogen sulphide

Risk of ignition or formation of inflammable gases or vapours with:

powdered aluminium, Ammonium salts, persulfates, Sodium borohydride phosphorus,

Oxides of phosphorus, Halogenated hydrocarbon, Light metals, Metals,

Risk of explosion/exothermic reaction with:

Bromine, Calcium, in powder form, furfuryl alcohol, Nitromethane, Peroxides, organic nitro compounds, Nitriles, Acrylic monomers, Chloroform, with Acetone, Nitrobenzene with

Methanol, Nitrobenzene, with salts magnesium, Zinc and Tin.

Conditions to avoid : No data available.

Incompatible materials : Aluminum, brass, Metals, metal alloys, Zinc, Tin

Hazardous decomposition

products

: In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION:

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product : No data available.

Dermal Product : No data available.

Inhalation Product . No data available.



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Repeated dose toxicity

Product

: No data available.

Skin corrosion/irritation

Product

Causes burns.

Serious eye damage/eye

irritation Product

: Causes serious eye damage.

Respiratory or skin

sensitization Product

Not a skin sensitizer.

Carcinogenicity Product

No data available.

: No data available.

IARC Monographs on the

Evaluation of Carcinogenic

Risks to Humans

US. National Toxicology

Program (NTP) Report on

: No data available.

Carcinogens

US. OSHA Specifically

Regulated Substances (29 CFR 1910.1001-1050

Germ cell mutagenicity

: No data available.

In vitro Product

No data available.

Reproductive toxicity

Product

No data available.

Specific target organ

toxicity - single exposure

Not known.

Product

Specific target organ

toxicity - repeated

None known.

exposure Product

Aspiration hazard Product

No data available.

Other effects

None known.

12. ECOLOGICAL INFORMATION:

Ecotoxicity

Acute hazards to the aquatic environment

Fish Product

: LC 50 (Western mosquitofish (Gambusia affinis), 95 h): > 125 mg/l.

Aquatic invertebrates

: EC 50 Water flea (Ceriodaphnia), 48 h): 40,4 mg/l.

Product

Chronic hazards to the aquatic environment

Fish Product

: No data available.

Aquatic invertebrates

: No data available.

Product



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Toxicity to Aquatic Plants

Product:

No data available.

Persistence and degradability

Biodegradation Product . . .

No data available.

BOD/COD ratio Product

No data available.

Bioaccumulative potential

Bioconcentration factor

(BCF) Product

Mobility in soil

No data available on bioaccumulation.

Partition coefficient n-

octanol / water (log Kow)

Product

: No data available.

: No data available.

Other adverse effects Harmful effect due to pH shift. Forms corrosive mixtures with water even if diluted.

Neutralisation possible in waste water treatment plants. Discharge into the environment

must be avoided.

13. DISPOSAL CONSIDERATION:

Disposal instructions: Discharge, treatment, or disposal may be subject to national, state, or local laws. Disposal

recommendations are based on uncontaminated material.

Contaminated packaging Since emptied containers retain product residue, follow label warnings even after container

is emptied.

14. TRANSPORT INFORMATION:

DOT	UN No. UN 1823	UN proper shipping name Sodium Hydroxide	Hazard Class(es) 8	Packaging group II	Marine Pollutant No
IMDG	UN 1823	Sodium Hydroxide	8	II	No
IATA	UN 1823	Sodium Hydroxide	8	II	No

15. REGULATORY INFORMATION:

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. Safety, health and environmental regulations/legislation specific for the substance or mixture No Data Available.



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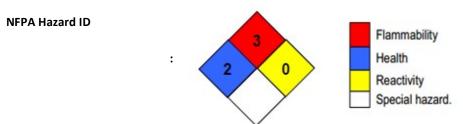
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16. OTHER INFORMATION:



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

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