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Sodium Hypochlorite Solution (Approximately 4% w/v available Chlorine)

MATERIAL SAFETY DATA SHEET SDS/MSDS

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers Product name : Sodium Hypochlo

 Sodium Hypochlorite Solution (Approximately 4% w/v available Chlorine)

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

Identified uses : Laboratory chemicals, Industrial & for professional use only.

1.3 Details of the supplier of the safety data sheet

Company	: Central Drug House (P) Ltd 7/28 Vardaan House New Delhi-10002 INDIA
Telephone	: +91 11 49404040
Email	: <u>care@cdhfinechemical.com</u>

1.4 Emergency telephone number Emergency Phone # : +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 Skin irritation (Category 2), H315 Serious eye damage (Category 1), H318 Acute aquatic toxicity (Category 1), H400

For the full text of the H-Statements mentioned in this Section, see Section 16.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

N Dangerous for the R50 environment

For the full text of the R-phrases mentioned in this Section, see Section 16.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 Pictogram



Signal word Hazard statement(s) H315 H318 H400 Danger

Causes skin irritation. Causes serious eye damage. Very toxic to aquatic life.

	Precautionary statement(s) P273 P280 P305 + P351 + P338	IF IN EYES: Rinse caut contact lenses, if prese	vironment. / eye protection/ face protection. iously with water for several minu nt and easy to do. Continue rinsin	
	Supplemental Hazard Statements	none		
	According to European Direc	tive 67/548/EEC as ame	nded.	
	Hazard symbol(s)		or the environment	
	R-phrase(s) R50	Very toxic to aquatic or	ganisms.	
	S-phrase(s) S61	Avoid release to the en data sheets.	vironment. Refer to special instru	ctions/ Safety
2.3	Other hazards - none			
SECT	ION 3: Composition/informatio	on on ingredients		
3.2	Mixtures			
	Hazardous ingredients accor Component	ding to Regulation (EC)	No 1272/2008 Classification	Concentration
	Sodium hypochlorite CAS-No. 76 EC-No. 23	81-52-9 1-668-3 7-011-00-1	Skin Corr. 1B; Aquatic Acute 1; H314, H400, EUH031	2,5 - 5 %
	Hazardous ingredients accor Component	ding to Directive 1999/4	5/EC Classification	Concentration
	Sodium hypochlorite			
	CAS-No. 76 EC-No. 23	81-52-9 1-668-3	C, N, R31 - R34 - R50	2,5 - 5 %

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

SECTION 4: First aid measures

Index-No.

4.1 **Description of first aid measures**

General advice

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

017-011-00-1

If inhaled

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

In case of skin contact

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

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 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

4.3 Indication of any immediate medical attention and special treatment needed no data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

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

- 5.2 Special hazards arising from the substance or mixture Hydrogen chloride gas, Sodium oxides
- **5.3** Advice for firefighters Wear self contained breathing apparatus for fire fighting if necessary.
- 5.4 Further information no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

For personal protection see section 8.

6.2 Environmental precautions

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

- 6.3 Methods and materials for containment and cleaning up Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.
- 6.4 **Reference to other sections** For disposal see section 13.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. For precautions see section 2.2.
- 7.2 Conditions for safe storage, including any incompatibilities Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)

A part from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin protection

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 respirator with multi-purpose combination (US) or type ABEK (EN 14387) 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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid
b)	Odour	no data available
c)	Odour Threshold	no data available
d)	рН	no data available
e)	Melting point/freezing point	no data available
f)	Initial boiling point and boiling range	no data available
g)	Flash point	not applicable
h)	Evapouration rate	no data available
i)	Flammability (solid, gas)	no data available
j)	Upper/lower flammability or explosive limits	no data available
k)	Vapour pressure	no data available
I)	Vapour density	no data available
m)	Relative density	no data available
n)	Water solubility	no data available
o)	Partition coefficient: n- octanol/water	no data available
p)	Auto-ignition temperature	no data available
q)	Decomposition temperature	no data available
r)	Viscosity	no data available
s)	Explosive properties	no data available
t)	Oxidizing properties	no data available

9.2 Other safety information no data available

SECTION 10: Stability and reactivity

10.1 Reactivity no data available

10.2 Chemical stability Stable under recommended storage conditions.

- **10.3 Possibility of hazardous reactions** no data available
- **10.4 Conditions to avoid** no data available
- **10.5 Incompatible materials** no data available
- **10.6 Hazardous decomposition products** Other decomposition products - no data available In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity no data available

Skin corrosion/irritation no data available

Serious eye damage/eye irritation no data available

Respiratory or skin sensitisation no data available

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 no data available

Additional Information

RTECS: Not available

SECTION 12: Ecological information

- 12.1 Toxicity no data available
- 12.2 Persistence and degradability no data available

12.3	Bioaccumu no data ava	Ilative potential ailable		
12.4	Mobility in no data ava			
12.5		PBT and vPvB assess assessment not availab	ment le as chemical safety assessment no	ot required/not conducted
12.6	Other adve Very toxic t	erse effects to aquatic life.		
SEC	ΓΙΟΝ 13: Dis	posal considerations		
13.1	Waste treat	tment methods		
	Product Offer surplu	us and non-recyclable s	olutions to a licensed disposal comp	any.
		ated packaging as unused product.		
SEC	TION 14: Tra	nsport information		
14.1	UN numbe ADR/RID: 3	-	IMDG: 3082	IATA: 3082
14.2		ENVIRONMENTALLY	HAZARDOUS SUBSTANCE, LIQU HAZARDOUS SUBSTANCE, LIQU dous substance, liquid, n.o.s. (Sodiu	ID, N.O.S. (Sodium hypochlorite)
14.3	Transport I ADR/RID: 9	hazard class(es) Э	IMDG: 9	IATA: 9
14.4	Packaging ADR/RID: I	• •	IMDG: III	IATA: III
14.5	Environme ADR/RID: y	ntal hazards /es	IMDG Marine pollutant: no	IATA: yes

14.6 Special precautions for user

Further information

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

SECTION 15: Regulatory information

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

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

no data available

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

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

Aquatic Acute	Acute aquatic toxicity
EUH031	Contact with acids liberates toxic gas.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
Skin Corr.	Skin corrosion

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

С	Corrosive
R31	Contact with acids liberates toxic gas.
R34	Causes burns.
R50	Very toxic to aquatic organisms.
Ν	Dangerous for the environment

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 for additional terms and conditions of sale.