

ITTEHAD CHEMICALS LIMITED



Doc. # NaOCI-MSDS-03

Rev. # <u>00</u>

Effective Date: 01.01.2023

TITLE: MATERIAL SAFETY DATA SHEET (MSDS)

SODIUM HYPOCHLORITE

Section 1: Chemical Product and Company Identification

Product Name: Sodium Hypochlorite Contact Information: ITTEHAD CHEMICALS LIMITED

G.T. Road, Kala Shah Kaku

Chemical Name: Sodium Hypochlorite **Web:** www.ittehadchemicals.com/

Trade Name: Liquid Bleach E-mail: info@ittehadchemicals.com

Synonyms: Chlorine bleach, Soda bleach **Phone No.** 0423-7950222-25

Chemical Formula: NaOCl

Recommended Use: Bleaching agent, Chemical Intermediate, Sodium Hypochlorite is an antimicrobial

pesticide.

Section 2 : Composition and Information on Ingredients

Composition:

Components	CAS#	Proportion	Risk Phrases
Available Chlorine	-	Min. 19.5 % w/v	R31, R34, R41, R50
Alkalinity as NaOH	1310-73-2	Min. 0.8 % w/v	R35, R41
Water	7732-18-5	> 60%	

Section 3: Hazards Identification

Hazard Classifications: Not Hazardous

Priority Identifiers: Not Applicable

Secondary Identifiers: Not Applicable

Section 4 : First Aid Measures

Eye: Causes eye burns. May cause irreversible eye injury. Contact with liquid is corrosive to

the eyes and causes severe burns.

Skin: May cause severe irritation and possible burns.

Ingestion: May cause severe and permanent damage to the digestive tract. Causes severe

digestive tract burns with abdominal pain, vomiting, and possible death.

Inhalation: Causes severe irritation of upper respiratory tract with coughing, burns, breathing

difficulty, and possible coma. Causes chemical burns to the respiratory tract. May cause

pulmonary edema and severe respiratory disturbances.

Chronic: Chronic inhalation and ingestion may cause effects similar to those of acute

inhalation and ingestion

Notes to Physician: The absence of visible signs or symptoms of burns does NOT reliably exclude

the presence of actual tissue damage.

Section 5: Fire and Explosion Data

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Wear appropriate protective clothing to prevent contact with skin and eyes. Wear a self- contained breathing apparatus (SCBA) to prevent contact with thermal decomposition products.

Extinguishing Media:

Substance is non-flammable; use agent most appropriate to extinguish surrounding fire.

Section 6: Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Absorb spill using an absorbent, non-combustible material such as earth, sand, or vermiculite. Do not use combustible materials such as sawdust. Provide ventilation.

Section 7: Handling and Storage

Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Do not get in eyes, on skin, or on clothing. Do not get on skin or in eyes. Keep container tightly closed. Do not ingest or inhale. Use with adequate ventilation. Discard contaminated shoes.

Storage:

Keep container closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:

Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Exposure Limits:

CAS# 1310-73-2:

United Kingdom, WEL - STEL: 2 mg/m3 STEL

United States OSHA: 2 mg/m3 TWA

Belgium - TWA: 2 mg/m3 VLE France - VME: 2 mg/m3 VME

Germany: 2 mg/m3 TWA (inhalable fraction)

Japan: 2 mg/m3 Ceiling Malaysia: 2 mg/m3 Ceiling Spain: 2 mg/m3 VLA-EC

CAS# 7681-52-9: CAS# 7732-18-5:

Personal Protective Equipment

Eyes: Wear chemical splash goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators:

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Section 9: Physical and Chemical Properties

Physical State: Liquid

Appearance: Clear

Color: Colorless to Yellow

Odor: Characteristic bleach odor/Chlorine odor

Odor Threshold: 2 ppm approx.

Flash Point: Not Flammable

Boiling Point/Range: Not available

Freezing/Melting Point: Not available

Auto-ignition Temperature: Not applicable

Flash Point: Not applicable

Explosion Limits: Lower: Not available

Explosion Limits: Upper: Not available

Vapor Pressure: Not available

Not available Viscosity:

Specific Gravity/Density: 1.2 - 1.3

Water Solubility: Soluble in water

Not available pH:

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Incompatible Materials.

Incompatibility with various substances: Reactive with oxidizing agents, acids.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: Hygroscopic. Will ignite and burn fiercely in contact with fluorine. Incompatible

with acids, alum, ammonium salts, mercury + hydrogen, aluminum and

magnesium.

Special Remarks on Corrosivity: Not available

Polymerization: Will not occur.

Section 11: Toxicological Information

RTECS#: CAS# 1310-73-2: WB4900000

> CAS# 7681-52-9: NH3486300 CAS# 7732-18-5: ZC0110000

LD50/LC50: RTECS:

CAS# 1310-73-2: Draize test, rabbit, eye: 400 ug Mild;

> Draize test, rabbit, eye: 1% Severe; Draize test, rabbit, eye: 50 ug/24H Severe; Draize test, rabbit, eye: 1 mg/24H Severe; Draize test, rabbit, skin: 500 mg/24H Severe;

RTECS:

CAS# 7681-52-9: Draize test, rabbit, eye: 10 mg Moderate;

> Draize test, rabbit, eye: 1.31 mg Mild; Oral, mouse: LD50 = 5800 mg/kg;

CAS#7732-18-5: Oral, rat: LD50 = >90 mL/kg

Sodium hydroxide - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Carcinogenicity:

Prop 65.

Sodium hypochlorite - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65. Water - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA

Prop 65.

Other: See actual entry in RTECS for complete information

Section 12: Ecological Information

No information available.

Section 13: Disposal Considerations

Product Disposal: Reuse or recycle where possible. If practicable apply excess fertiliser at recommended

rates to appropriate land. Observe any local authority restrictions that may apply.

Container Disposal: Rinse containers thoroughly prior to reuse. Otherwise render unusable and

dispose of as waste.

Section 14: Transport Information

	IATA	IMO	RID/ADR
Shipping Name:	HYPOCHLORITE	HYPOCHLORITE	HYPOCHLORITE
	SOLUTION	SOLUTION	SOLUTION
Hazard Class:	8	8	8
UN Number:	1791	1791	1791
Packing Group:	III	III	III

USA RQ: CAS# 1310-73-2: 1000 lb final RQ; 454 kg final RQ USA RQ: CAS# 7681-52-9: 100 lb final RQ; 45.4 kg final RQ

Section 15: Other Regulatory Information

European/International Regulations:

European Labeling in Accordance with EC Directives

Hazard Symbols: C

Risk Phrases: R 31 Contact with acids liberates toxic gas.

R 34 Causes burns.

Safety Phrases: S 28A After contact with skin, wash immediately with plenty of water.

S 45 In case of accident or if you feel unwell, seek medical advice immediately

(show the label where possible).

S 50A Do not mix with acids.

S 61 Avoid release to the environment. Refer to special instructions/safety

data sheets. WGK (Water Danger/Protection)

CAS# 1310-73-2: 1 CAS# 7681-52-9: 2

CAS# 7732-18-5: Not available

Canada:

CAS# 1310-73-2 is listed on Canada's DSL List CAS# 7681-52-9 is listed on

Canada's DSL List CAS# 7732-18-5 is listed on Canada's DSL List

US Federal: TSCA

CAS# 1310-73-2 is listed on the TSCA Inventory. CAS# 7681-52-9 is listed on

the TSCA Inventory. CAS# 7732-18-5 is listed on the TSCA Inventory.

Section 16: Other Information

Other Special Considerations: Not available

Created on: 01.01.2023

Text for R-phrases from Section 2

R 35 Causes severe burns.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.