

Pg. 1 of 8

MATERIAL SAFETY DATA SHEET

Version:01

PRODUCT NAME: SODIUM HYPOCHLORITE SOLUTION CAS Number: 7681-52-9

1. IDENTIFICATION:

Product Code : 90551, 90605, 90623, 93574, 93388

Company Name : ADVENT CHEMBIO PRIVATE LIMITED

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2. HAZARDS IDENTIFICATION:

Hazard classification

Health hazards

Skin Corrosion : Category 1 B

Serious eye damage : Category 1

Short-term (acute) aquatic

hazard

: Category 2

Long-term (Chronic)

aquatic hazard

Hazard symbol

Category 1

Labels elements :

Signal word : Danger

Hazard statement Causes severe skin burns and eye damage.

Very toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention: Obtain special instructions before use.

Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. 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.

 $\label{lem:container} \textbf{Keep container tightly closed. Ground/bond container and receiving equipment.}$

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.



Pg. 2 of 8

MATERIAL SAFETY DATA SHEET

Version:01

PRODUCT NAME: SODIUM HYPOCHLORITE SOLUTION

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Storage : Store at ambient temperature in a dry and well ventilated place. Keep container tightly

closed. Containers which are opened must be carefully resealed and kept upright to prevent

CAS Number: 7681-52-9

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

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or

explosion.

3. COMPOSITION/INFORMATION ON INGRADIENTS:

Ingredient	CAS Number	Percent	Hazardous
Sodium Hypochlorite Solution	7681-52-9	4.0 – 13.0%	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.

Swallowed Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse

mouth with water. Consult a physician.

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 (see section

2) and/or in section 11

: No data available.

FIRE FIGHTING MEASURES:

General information : No data available.
Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media

dry powder.



Pg. 3 of 8

Version:01

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: SODIUM HYPOCHLORITE SOLUTION CAS Number: 7681-52-9

Unsuitable extinguishing

media

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Specific hazards arising from the chemical

Avoid water in straight hose stream; will scatter and spread fire.

Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance to a source of ignition and flash back. Prevent buildup of vapors or gases to explosive

concentrations. Heat may cause the containers to explode. Hydrogen chloride gas, Sodium oxides

Special protective equipment and precautions for firefighters

Special firefighting procedures

Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. Fight fire from a protected location. Move containers from fire area if you can do so

without risk.

Special protective equipment for fire-fighters

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

with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. ACCIDENTAL RELEASE MEASURES:

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

7. 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

 $: \quad \hbox{container and receiving equipment. Use explosion-proof} \\$

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

Keep away from food, drink and animal feeding stuffs.

Store at ambient temperature in a dry and well ventilated place.

Keep the container tightly closed, away from heat. Containers which are opened must be

carefully resealed and kept upright to prevent leakage.

Ground container and transfer equipment to eliminate static electric sparks. Do not store near acids. Recommended storage temperature 2 - 8 °C



Pg. 4 of 8

Version:01

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: SODIUM HYPOCHLORITE SOLUTION CAS Number: 7681-52-9

EXPOSURE CONTROLS PERSONAL PROTECTION:

Control parameters

Occupational exposure

No data available.

limits Appropriate engineering

Hygiene measures

controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before

breaks and at the end of workday.

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**

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 Wear safety glasses with side shields (or goggles).

Hand protection Chemical resistant gloves.

Other Wear suitable protective clothing.

Respiratory protection In case of inadequate ventilation use suitable respirator. Chemical

respirator with organic vapor cartridge.

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 Clear colourless to pale yellow liquid

Chlorine Odor

Solubility No data available

Solubility in water completely miscible

Formula NaOCI

Molecular Weight 74.44 g/mol

1.206 g/cm3 at 25°C **Specific Gravity**

11.5 - 13.0 рΗ

% Volatiles by volume @

21C (70F)

No data available

Boiling Point 111°C **Melting Point** : -28.9 °C



MATERIAL SAFETY DATA SHEET

Pg. 5 of 8 Version:01

PRODUCT NAME: SODIUM HYPOCHLORITE SOLUTION CAS Number: 7681-52-9

Flash Point : No data available

Vapor Density (Air=1) No data available

Vapor Pressure (mm Hg) 17.5 mmHg at 20 °C

Evaporation Rate (BuAc=1) No data available

10. STABILITY AND REACTIVITY:

Reactivity No data available

Chemical stability Stable under recommended storage conditions.

23.3 hPa at 20 °C

Possibility of hazardous Violent reactions possible with: Generates dangerous gases or fumes in contact with Acids

reactions The generally known reaction partners of water.

Conditions to avoid No data available

> Strong acids, Organic materials, Powdered metals, Forms shock-sensitive mixtures with certain other materials., Amines, Reacts violently with ammonium salts, aziridine, methanol,

Incompatible materials and phenylaceto primary aliphatic or aromatic amines to form explosively unstable n-chlor

55°C.

Hazardous decomposition

Hazardous decomposition products formed under fire conditions. - Hydrogen chloride gas,

products Sodium oxides.

11. TOXICOLOGICAL INFORMATION:

Information on likely routes of exposure

Ingestion : No data available.

Inhalation No data available.

Skin contact No data available.

Eye contact No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product : LD 50 (Rat): 1.100 mg/kg

Dermal Product LD 50 (Rabbit): male and female - > 20.000 mg/kg

Inhalation Product No data available.

Repeated dose toxicity

Product

No data available.

Skin corrosion/irritation

No data available.

Product

Serious eye damage/eye

irritation Product

: Causes serious eye damage.



Pg. 6 of 8

MATERIAL SAFETY DATA SHEET

CAS Number: 7681-52-9

Version:01

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Respiratory or skin

sensitization Product

Carcinogenicity Product

: Not a skin sensitizer.

No data available.

IARC Monographs on the

Evaluation of Carcinogenic

Risks to Humans

US. National Toxicology

Program (NTP) Report on

Carcinogens

US. OSHA Specifically

Regulated Substances (29

CFR 1910.1001-1050 Germ cell mutagenicity : No data available. No data available.

No data available.

In vitro Product

No data available.

Reproductive toxicity

Product

No data available.

Specific target organ

toxicity - single exposure

: No data available.

Product

Specific target organ

toxicity - repeated

No data available.

exposure Product

Aspiration hazard Product

No data available.

Other effects None known.

12. ECOLOGICAL INFORMATION:

Ecotoxicity

Acute hazards to the aquatic environment

Fish Product

: LC50 - Pimephales promelas (fathead minnow) - 0,08 mg/l - 96 h

Aquatic invertebrates **Product**

: EC50 - Daphnia magna (Water flea) - 0,04 mg/l - 48 h

Chronic hazards to the aquatic environment

Fish Product

: No data available.

Aquatic invertebrates

No data available.

Product

Toxicity to Aquatic Plants

: No data available.

Product:

Persistence and degradability

Biodegradation Product

No data available.



MATERIAL SAFETY DATA SHEET

Version :01

Pg. 7 of 8

PRODUCT NAME: SODIUM HYPOCHLORITE SOLUTION CAS Number: 7681-52-9

BOD/COD ratio Product : No data available.

Bioaccumulative potential

Bioconcentration factor

(BCF) Product

: No data available.

Partition coefficient n-

octanol / water (log Kow)

: No data available.

Product

Mobility in soil : No data available.

Other adverse effects : No data available.

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:

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT	UN 3082	Sodium Hypochlorite Solution	9	III	No
IMDG	UN 3082	Sodium Hypochlorite Solution	9	III	No
IATA	UN 3082	Sodium Hypochlorite Solution	9	III	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.



Pg. 8 of 8

MATERIAL SAFETY DATA SHEET

CAS Number: 7681-52-9

Version:01

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16. OTHER INFORMATION:

NFPA Hazard ID

: 2 0 Flammability
Health
Reactivity
Special hazard.

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

Issue Date : 18/01/2024

Version : 01

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