

Material Safety Data Sheet (MSDS)

Section 1: Chemical Product and Company Identification

| | |
|------------------|--|
| Product Name | Sodium Hypochlorite (10%-13% Available) |
| CAS Number | 7681-52-9 |
| Chemical Formula | ClNaO |
| Company Name | CAMACHEM (Part of CAMAL Group) 3F Jinlong East Beijing Station Road Chaoyang District, Beijing, China |
| Contact | sales@camachem.com |
| Company Website | www.camachem.com |

Section 2: Composition and Information on Ingredients

| | | |
|---------------------|----------|-----------|
| Chemical Name | emsds | EINECS# |
| Sodium hypochlorite | aq.soln. | 231-668-3 |

Hazard Symbols: O C
Risk Phrases: 31 34 8

Section 3: Hazards Identification

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin:
Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Destroy contaminated shoes.
Ingestion:
Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.
Inhalation:
Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
Notes to Physician:
For methemoglobinemia, administer oxygen alone or with Methylene Blue depending on the methemoglobin concentration in the blood.

Section 4: First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin:
Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated



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clothing and shoes. Wash clothing before reuse. Destroy contaminated shoes.

Ingestion:

Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

For methemoglobinemia, administer oxygen alone or with Methylene Blue depending on the methemoglobin concentration in the blood.

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. Substance is noncombustible. Oxidizer. Greatly increases the burning rate of combustible materials. Containers may explode in the heat of a fire.

Extinguishing Media:

Use extinguishing media most appropriate for the surrounding fire.

Do NOT get water inside containers. For small fires, use dry chemical, carbon dioxide, or water spray. For large fires, use dry chemical, carbon dioxide, alcohol-resistant foam, or water spray.

Cool containers with flooding quantities of water until well after fire is out.

Section 6: Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid runoff into storm sewers and ditches which lead to waterways. Remove all sources of ignition. Use a spark-proof tool. Do not get water inside containers.

Section 7: Handling and Storage

Handling:

Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Use only in a chemical fume hood. Discard contaminated shoes.

Storage:

Do not store in direct sunlight. Store in a tightly closed container. Store in a dry area. Corrosives area. Keep refrigerated.

(Store below 4°/39°) Do not get water inside containers.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Exposure Limits CAS# 7681-52-9: Personal Protective Equipment Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

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Wear appropriate protective clothing to minimize contact with skin.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9: Physical and Chemical Properties

Physical State: Liquid

Color: clear yellow

Odor: Disagreeable, sweetish odor

pH: Not available.

Vapor Pressure: 17.5 mm Hg @ 20

Viscosity: mPas 20 deg C

Boiling Point: Not available.

Freezing/Melting Point: -16 deg C

Autoignition Temperature: Not available.

Flash Point: Not available.

Explosion Limits, lower: N/A

Explosion Limits, upper: N/A

Decomposition Temperature:

Solubility in water: soluble in water

Specific Gravity/Density: 1.2090g/cm³

Molecular Formula: ClNaO

Molecular Weight: 74.44

Section 10: Stability and Reactivity Data

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Light, combustible materials, strong acids, temperatures above 40 °C.

Incompatibilities with Other Materials:

Strong acids, amines, ammonia, ammonium salts, reducing agents, metals, formic acid, methanol, formic acid, and phenylacetonitrile.

Hazardous Decomposition Products:

Hydrogen chloride, chlorine, irritating and toxic fumes and gases, sodium oxide.

Hazardous Polymerization: Will not occur.

Section 11: Toxicological Information

RTECS#:

CAS# 7681-52-9: NH3486300 LD50/LC50:

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.

Carcinogenicity:

Sodium hypochlorite - Not listed by ACGIH, IARC, or NTP.

Other:

See actual entry in RTECS for complete information.

Section 12: Ecological Information

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Ecotoxicity:
LC50 (48 hr) rainbow trout: 0.07 mg/l [Nikunen, E. Ecotoxicol. Environ. Saf. 1985, 9, 84-91] LC50 (96 hr) fathead minnow: 5.9 mg/l [Curtis, M. W. et al J. Hydrol. 1981,51,359]

Section 13: Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14: Transport Information

IATA
Shipping Name: HYPOCHLORITE SOLUTION
Hazard Class: 8
UN Number: 1791
Packing Group: III
IMO
Shipping Name: HYPOCHLORITE SOLUTION
Hazard Class: 8
UN Number: 1791
Packing Group: III
RID/ADR
Shipping Name: HYPOCHLORITE SOLUTION
Hazard Class: 8
UN Number: 1791
Packing group: III
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: O C
Risk Phrases:
R 31 Contact with acids liberates toxic gas.
R 34 Causes burns.
R 8 Contact with combustible material may cause fire.
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 50 Do not mix with ... (to be specified by the manufacturer).
S 61 Avoid release to the environment. Refer to special instructions/safety data sheets.
WGK (Water Danger/Protection)

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CAS# 7681-52-9: 2

Canada

CAS# 7681-52-9 is listed on Canadas DSL List.

CAS# 7681-52-9 is listed on Canadas Ingredient Disclosure List.

US FEDERAL

TSCA

CAS# 7681-52-9 is listed on the TSCA inventory.

Section 16: Other Information

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 we m 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 we have been advised of the possibility of such damages.

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