

# Sodium Hypo Chlorite 10-12.5%

Part No. RXSOL-25-3031-250 — Generated 06 Oct 2026

## 1. Product and Company Identification

|              |                               |
|--------------|-------------------------------|
| Product Name | Sodium Hypo Chlorite 10-12.5% |
| Part Number  | RXSOL-25-3031-250             |

### Company Details:

RX MARINE INTERNATIONAL  
105, A wing , BSEL , TECH PARK.  
VASHI ,NEW BOMBAY 400703 INDIA

Branch : Kandla, Mumbai , Chennai, Vizag, Kolkata, UAE , OMAN , CANADA and KENYA

|         |                                                          |
|---------|----------------------------------------------------------|
| Phone   | +91 22 20871200 - 1400                                   |
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| Email   | <a href="mailto:mail@rxmarine.com">mail@rxmarine.com</a> |
| Website | <a href="http://www.rxmarine.com">www.rxmarine.com</a>   |

## 2. Composition / information on ingredients

| Product name                 | Cas No    | EC No     | Weight%      | Formula |
|------------------------------|-----------|-----------|--------------|---------|
| Sodium hypochlorite solution | 7681-52-9 | 231-668-3 | >= 10 - 20 % | ClNaO   |

## 3. Hazards Identification

|                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Signal Word                                | Danger                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Hazard Statements                          | H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage. H410 Very toxic to aquatic life with long lasting effects.                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Precautionary statements                   | P234 Keep only in original packaging. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| Classification of the substance or mixture | No data available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Supplemental Hazard Statements             | No data available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Other hazards                              | This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.                                                                                                              |

## 4. First Aid Measures

|                                                                            |                                                                                                                     |
|----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| General advice                                                             | First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance           |
| If inhaled                                                                 | Fresh air. Immediately call in physician.                                                                           |
| Eye Contact                                                                | After eye contact rinse out with plenty of water. Remove contact lenses.                                            |
| Swallowed                                                                  | After swallowing make victim drink water (two glasses at most). Consult doctor if feeling unwell.                   |
| Skin Contact                                                               | In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.             |
| Inhalation                                                                 | No data available                                                                                                   |
| Ingestion                                                                  | No data available                                                                                                   |
| 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 |
| Indication of any immediate medical attention and special treatment needed | No data available                                                                                                   |

## 5. Fire-fighting Measures

|                                                       |                                                                                                                                                                |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Flammability                                          | No data available                                                                                                                                              |
| 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                                                                                    |
| Special hazards arising from the substance or mixture | Hydrogen chloride gas Sodium oxides Not combustible. Ambient fire may liberate hazardous vapours.                                                              |
| Further information                                   | Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system. |
| Hazardous combustion products                         | No data available                                                                                                                                              |
| Advice for firefighters                               | Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.  |
| Protective Equipment                                  | No data available                                                                                                                                              |
| Specific Hazards Arising from the Chemical            | No data available                                                                                                                                              |

## 6. Accidental Release Measures

|                                                                     |                                                                                                                                                                                                        |
|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions, protective equipment and emergency procedures | Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.                       |
| Spillage                                                            | No data available                                                                                                                                                                                      |
| Personal Protection                                                 | No data available                                                                                                                                                                                      |
| Environmental Precaution                                            | Do not let product enter drains. Risk of explosion.                                                                                                                                                    |
| Methods and materials for containment and cleaning                  | Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts. |
| Reference to other sections                                         | For disposal see section 13.                                                                                                                                                                           |

## 7. Handling and Storage

|                                                             |                                                                                                                         |
|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Advice on protection against fire and explosion             | No data available                                                                                                       |
| Incompatible materials                                      | No data available                                                                                                       |
| Hygiene measures                                            | No data available                                                                                                       |
| Advice on safe handling                                     | No data available                                                                                                       |
| Conditions for safe storage including any incompatibilities | No data available                                                                                                       |
| Storage conditions                                          | No metal containers. Tightly closed. Do not store near acids. Storage stabilityRecommended storage temperature 2 - 8 °C |
| Storage class                                               | Storage class (TRGS 510) 8B Non-combustible, corrosive hazardous materials                                              |
| Specific end use(s)                                         | Apart from the uses mentioned in section 1.2 no other specific uses are stipulated                                      |
| Advice on general occupational hygiene                      | No data available                                                                                                       |

## 8. Exposure controls and personal protection

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Exposure controls        | Personal protective equipment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Engineering Control      | No data available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Eye/face protection      | Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses                                                                                                                                                                                                                                                                                                                                                                           |
| Body Protection          | Protective clothing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Skin protection          | Full contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M) Splash contact Material: Nitrile rubber Minimum layer thickness: 0,11 mmBreak through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)                                                                                                                                                                                   |
| Respiratory protection   | required when vapours/aerosols are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type ABEK The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented. |
| Other Protection Measure | No data available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## 9. Physical and chemical properties

|                           |                   |
|---------------------------|-------------------|
| Physical state            | Liquid            |
| Colour                    | No data available |
| Odour                     | No data available |
| Odor Threshold            | No data available |
| pH                        | No data available |
| Melting Point             | -28,9 °C          |
| Boiling Point             | 111 °C            |
| Flash Point               | No data available |
| Evaporation Rate          | No data available |
| Flammability (solid, gas) | No data available |

|                                              |                                      |
|----------------------------------------------|--------------------------------------|
| Explosive limits                             | No data Available                    |
| Upper/lower flammability or explosive limits | No data Available                    |
| Autoignition temperature                     | No data Available                    |
| Decomposition temperature                    | No data available                    |
| Vapour pressure                              | 23,3 hPa at 20 °C                    |
| Viscosity                                    | No data Available                    |
| Density                                      | 1,206 g/mL at 25 °C                  |
| Relative Density                             | No data available                    |
| Specific Gravity                             | No data available                    |
| Partition coefficient                        | No data Available                    |
| Explosive properties                         | No data available                    |
| Solubility                                   | Completely miscible at 20 °C soluble |
| Ignition temperature                         | No data available                    |
| Particle characteristics                     | No data available                    |

## 10. Stability and reactivity

|                                    |                                                                                                                                                                                                                                                                                           |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                         | No data available                                                                                                                                                                                                                                                                         |
| Chemical stability                 | The product is chemically stable under standard ambient conditions (room temperature)                                                                                                                                                                                                     |
| Possibility of hazardous reactions | Violent reactions possible with: Generates dangerous gases or fumes in contact with: Acids The generally known reaction partners of water.                                                                                                                                                |
| Conditions to avoid                | No data available                                                                                                                                                                                                                                                                         |
| Incompatible materials             | Strong acids, Organic materials, Powdered metals, Forms shock-sensitive mixtures with certain other materials., Amines, Reacts violently with ammonium salts, aziridine, methanol, and phenylaceto primary aliphatic or aromatic amines to form explosively unstable n-chlor 55°C. Metals |
| Hazardous decomposition products   | In the event of fire: see section 5                                                                                                                                                                                                                                                       |

## 11. Toxicological information

|                                   |                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute toxicity                    | If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach. Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages: damage of respiratory tract LD50 Oral - Rat - male - 1.100 mg/kg (OECD Test Guideline 401) LD50 Dermal - Rabbit - male and female - > 20.000 mg/kg (OECD Test Guideline 402) |
| Skin corrosion/irritation         | Mixture causes burns                                                                                                                                                                                                                                                                                                                                                              |
| Serious eye damage/irritation     | Mixture causes serious eye damage. Risk of blindness                                                                                                                                                                                                                                                                                                                              |
| Respiratory or skin sensitization | Guinea pig Not a skin sensitizer. (OECD Test Guideline 406)                                                                                                                                                                                                                                                                                                                       |
| Carcinogenicity                   | Did not show carcinogenic effects in animal experiment                                                                                                                                                                                                                                                                                                                            |
| Germ cell mutagenicity            | No data available                                                                                                                                                                                                                                                                                                                                                                 |

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reproductive toxicity                            | Did not show teratogenic effects in animal experiments. No impairment of reproductive performance suspected.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Specific target organ toxicity - single exposure | No data available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Additional Information                           | The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. burning sensation, Cough, wheezing, laryngitis, Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice. |

## 12. Ecological information

|                                                     |                                                                                                                                                                                                                                                            |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Persistence and degradability                       | The methods for determining the biological degradability are not applicable to inorganic substances.                                                                                                                                                       |
| Toxicity to fish                                    | LC50 - Pimephales promelas (fathead minnow) - 0,08 mg/l - 96 h Remarks: (Regulation (EC) No 1272/2008, Annex VI) (ECOTOX Database)                                                                                                                         |
| Toxicity to daphnia and other aquatic invertebrates | EC50 - Daphnia magna (Water flea) - 0,04 mg/l - 48 h Remarks: (Regulation (EC) No 1272/2008, Annex VI) (ECOTOX Database)                                                                                                                                   |
| Toxicity                                            | No data available                                                                                                                                                                                                                                          |
| Toxicity to bacteria                                | Static test EC50 - activated sludge - 77,1 mg/l - 3 h (OECD Test Guideline 209) Remarks: (ECHA)                                                                                                                                                            |
| Toxicity to algae                                   | Static test ErC50 - Pseudokirchneriella subcapitata - 0,036 mg/l - 72 h (OECD Test Guideline 201) static test EC10 - Pseudokirchneriella subcapitata - 0,02 mg/l - 72 h (OECD Test Guideline 201)                                                          |
| Products Biodegradation                             | No data available                                                                                                                                                                                                                                          |
| Mobility in soil                                    | No data available                                                                                                                                                                                                                                          |
| Results of PBT and vPvB assessment                  | This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.                                                         |
| Endocrine disrupting properties                     | The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher |
| Other adverse effects                               | No data available                                                                                                                                                                                                                                          |

## 13. Disposal considerations

|                        |                   |
|------------------------|-------------------|
| Product                | No data available |
| Contaminated packaging | No data available |
| Waste treatment Method | No data available |

## 14. Transport information

|                         |                                                               |                                                            |                                                           |
|-------------------------|---------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------|
| UN number               | ADR/RID : 1791                                                | IMDG : 1791                                                | IATA : 1791                                               |
| UN proper shipping name | ADR/RID: HYPOCHLORITE SOLUTION (sodium hypochlorite solution) | IMDG: HYPOCHLORITE SOLUTION (sodium hypochlorite solution) | IATA:HYPOCHLORITE SOLUTION (sodium hypochlorite solution) |

|                              |                             |            |            |
|------------------------------|-----------------------------|------------|------------|
| Transport hazard class(es)   | ADR/RID : 8                 | IMDG : 8   | IATA : 8   |
| Packaging group              | ADR/RID : III               | IMDG : III | IATA : III |
| Environmental hazards        | ADR/RID : Yes               | IMDG : Yes | IATA : No  |
| Special precautions for user | Tunnel restriction code (E) |            |            |
| Further information          | No data available           |            |            |

## 15. Regulatory information

|                                                                        |                         |                                                                                                  |
|------------------------------------------------------------------------|-------------------------|--------------------------------------------------------------------------------------------------|
| Safety, health and environmental specific for the substance or mixture | regulations/legislation | This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. |
| Other regulations                                                      |                         | No data available                                                                                |
| Chemical Safety Assessment                                             |                         | A Chemical Safety Assessment Was not carried out for this substance.                             |

## 16. Other information

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Other Information | <p>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 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 Rx Marine International has been advised of the possibility of such damages.</p>                                                      |
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