

KALLAS CHEMICALS
MATERIAL SAFETY DATA SHEET

• **1. Chemical Substance/Product and Company Identification**

- **Product Name:** Liquid Chlorine Solutions
- **Application:** Disinfectant and sanitizer
- **Company Address:** Krishna Enclave, Seethammapeta, Main Road beside Reliance Petrol Bunk - 530016
- **Emergency Telephone:** +91 93900 01431 / +91 97054 51797

• **2. Hazards Identification**

- **Hazardous Ingredients:** Sodium Hypochlorite (5-6% w/w)
- **Risk Phrases:** Refer to Section 15.

• **3. Composition and Ingredients**

- **Chemical Name:** Sodium Hypochlorite (Na-O-Cl)
- **Chemical Family:** Oxidizing agent
- **CAS Number:** 7681-52-9
- **Content:** 5-6%

• **4. First Aid Measures**

- **Inhalation:** No special measures required.
- **Ingestion:** Do not induce vomiting; drink water or milk and seek medical attention.
- **Skin Contact:** Wash thoroughly with soap and water; seek medical attention if irritation persists.
- **Eye Contact:** Rinse eyes with water for at least 15 minutes; seek medical attention if discomfort continues.
- **Note to Physician:** Treat symptomatically.

- **5. Firefighting Measures**

- **Extinguishing Media:** Not flammable; use extinguishing media appropriate for surrounding materials.
- **Specific Hazards:** None known.

- **6. Accidental Release Measures**

- **Personal Precautions:** Not applicable.
- **Environmental Precautions:** Alert authorities if spilled into watercourses.
- **Spill Clean-Up Methods:**
 - Small spills: Mop and wash with detergent and water.
 - Major spills: Contain, collect with absorbent material, and dilute with water.

- **7. Handling and Storage**

- **Precautions for Safe Handling:** Keep container tightly closed; store in a cool, ventilated place.
- **Recommendations:** Wash thoroughly after use.

- **8. Exposure Controls and Personal Protection**

- **Exposure Standards:** Not determined.
- **Personal Protective Equipment:**
 - **Respiratory Protection:** Use appropriate respirator when ventilation is inadequate.
 - **Hand Protection:** Solvent-resistant gloves (Nitrile, PVC, neoprene).
 - **Eye Protection:** Safety goggles.
 - **Protective Clothing:** Standard work clothes; use additional protection if necessary.

- **9. Physical and Chemical Properties**

- **Physical State:** Yellow liquid

- **Odor:** Characteristic
 - **pH:** 11-14 (depending on % sodium hypochlorite)
 - **Solubility in Water:** Completely soluble
 - **Flashpoint:** Approx. 230°F (110°C)
 - **Specific Gravity:** 1.126
- **10. Stability and Reactivity**
 - **Stability:** Stable under normal conditions.
 - **Dangerous Reactions:** None.
 - **Decomposition Products:** Will not decompose on its own.
- **11. Toxicological Information**
 - **Product Toxicity:** Not determined.
 - **Component Toxicity:** Derived from known effects of individual ingredients.
 - **Other Health Effects:** Low oral toxicity; ingestion may cause gastrointestinal irritation.
- **12. Ecological Information**
 - **Ecotoxicity:** Avoid contaminating waterways.
 - **Biodegradation:** Likely to degrade to low-impact substances when used as directed.
- **13. Disposal Considerations**
 - **Methods:** Follow regulations; consult relevant authorities.
- **14. Transport Information**
 - **UN Number:** NR
 - **Proper Shipping Name:** NA

- **Class:** NR
- **Packing Group:** NR
- **Hazchem Code:** NA
- **Special Precautions:** None.

- **15. Additional Regulatory Information**

- **Regulatory Status:** Not regulated.

- **Risk Phrases:**

- R36: Irritating to eyes.
- R41: Risk of serious damage to eyes.

- **Safety Phrases:**

- S2: Keep out of reach of children.
- S24: Avoid contact with eyes.
- S26: Rinse eyes with water immediately and seek medical advice if contact occurs.
- S46: If swallowed, seek medical advice immediately.
- S37: Wear suitable gloves.
- S50A: Do not mix with chlorine-releasing bleaches.

- **16. Other Information**

- **Disclaimer:** This MSDS provides guidance based on reliable sources, but each user must evaluate specific conditions of use. The company assumes no responsibility for misuse.