

KALLAS CHEMICALS
MATERIAL SAFETY DATA SHEET

- **Chemical Substance/Product and Company Identification**

- **Product Name:** Tiles Cleaner
- **Application:** To clean toilet tiles
- **Company Address:** Krishna Enclave, Seethammapeta, Main Road beside Reliance Petrol Bunk - 530016
- **Emergency Telephone:** +91 93900 01431 / +91 97054 51797

- **Hazards Identification**

- **Hazards for Man and the Environment:**
- **R35:** Causes severe burns.
- **R52/53:** Harmful to aquatic organisms; may cause long-term adverse effects.
- **R36:** Irritating to eyes.
- **R41:** Risk of serious damage to eyes.
- **Environmental Risk Phrases:** Refer to Section 15.

- **Composition and Ingredients**

- **Hydrochloric Acid (CAS: 7647-01-0):** 10-11%
- **Non-ionic Surfactants:** 5%
- **Deionized Water:** 70%

- **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.

- **Fire Fighting Measures**

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

- **Accidental Release Measures**

- **Personal Precautions:** Avoid contact with skin and eyes.
- **Environmental Precautions:** Alert authorities if spilled into watercourses.
- **Spill Clean-Up Methods:**
- Small spills: Mop and wash with detergent and water.
- Major spills: Contain and collect with absorbent material; store in a properly labeled container.

- **Handling and Storage**

- **Precautions for Safe Handling:**
- Keep locked up; keep container dry.
- Avoid ingestion and inhalation of vapors.
- Store in a cool, well-ventilated area.
- Do not mix with incompatible materials such as oxidizing agents, metals, alkalis, etc.
- **Storage:** Use metallic or coated fiberboard drum with a strong polyethylene inner package.

- **Exposure Controls and Personal Protection**

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

- **Physical and Chemical Properties**

- **Physical State:** Dark blue, slightly thick liquid.
- **Odor:** Characteristic
- **pH:** 1-2
- **Solubility in Water:** Completely soluble.
- **Specific Gravity:** 1.030-1.080 g/cm³

- **Stability and Reactivity**

- **Stability:** Stable under normal conditions.
- **Dangerous Reactions:** None.
- **Corrosivity:** Extremely corrosive to certain metals.
- **Decomposition Products:** May emit oxides of carbon, nitrogen, chlorine, and ammonia.
- **Conditions to Avoid:** Do not mix with other products.

- **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.

- **Ecological Information**

- **Ecotoxicity:** Avoid contaminating waterways.
- **Biodegradation:** Degrades to substances likely to be of low environmental impact when used as directed.

- **Disposal Considerations**

- **Methods:** Follow regulations; consult relevant authorities for proper disposal methods.

- **Transport Information**

- **Classification:** Corrosive material
- **Identification:** Hydrochloric Acid, Solution (UNNA: 1789 PG: II)

- **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.
- **Other Information**
 - **Disclaimer:** This MSDS is based on reliable sources but should be used as guidance. The company assumes no responsibility for misuse.