

MATERIAL SAFETY DATA SHEET (MSDS) FOR REAGENTS & CHEMICALS

Sr. no	Name of chemical	Hazard	First aid	Spillage	Handling and Storage	Personal Protection
1	Oxygen	May cause eye irritation. Contact with rapidly expanding gas may cause burns or frostbite	Eye contact: Immediately flush with water for at least 15 minutes	Immediately contact emergency personnel. Keep unnecessary personnel away. Eliminate all ignition sources if safe to do so. Shut off gas supply if this can be done safely. Isolate area until gas has dispersed.	High pressure gas. Do not puncture or incinerate the container. Use equipment rated for cylinder pressure. Close valve after each use and when empty. Store in a tightly closed container. Avoid contact with combustible materials. Protect cylinders from physical damage, do not drag, drop, roll or slide the cylinder. Use a suitable hand truck for cylinder movement. Cylinders should be stored upright, with valve protection cap in place, firmly secured to prevent falling or being knocked over.	Gloves, lab coat
2	Sodium hypochlorite	Causes severe irritation and burns. May be harmful if swallowed. Avoid contact with eyes, skin and clothes	Wash exposed area with soap and water, if irritation persists, seek medical attention EYES: Wash eye with plenty of water for at least 15 minutes. INGESTION: if swallowed, induce vomiting immediately after giving two glasses of water.	Do not allow hypochlorite to be mixed with water. Do not use combustible materials such as sawdust or absorb spills. Reduce with agents such as bisulphate or ferrous salt solutions	Store in a cool, dry well-ventilated place away from incompatible materials. Wash thoroughly after handling. Do not store near heat or acids	Safety goggles, lab coat, gloves

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3	Copper sulphate solution	Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY : Not available. The substance may be toxic to kidneys, liver. Repeated or prolonged exposure to the substance can produce target organs damage.	Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention. Skin Contact: In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel.. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.	Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product.	Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as metals, alkalis. Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.	Personal Protection: Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent.