

PHENOL RED INDICATOR

PRODUCT IDENTIFICATION**Chemical Name and Synonyms:** Phenol red indicator.

Phenolsulphonphthalein.

Chemical Family: Sulphonphthalein dye**Chemical Formula:** C₁₉H₁₄O₅S**Product Use:** Laboratory reagent**Manufacturers Name and Address:** Caledon Laboratories Ltd. 40

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Telephone No: (905) 877-0101**Fax No:** (905) 877-6666**Emergency Telephone No:** CANUTEC (613) 996-6666**HAZARDOUS INGREDIENTS OF MATERIALS****Ingredients, %, TLV Units, CAS No:** Phenol red, 99, Not established, 143-74-8 OR Phenol red sodium salt, 99, Not established, 34487-61-1**PHYSICAL DATA****Physical State:** Solid**Odour and Appearance:** Bright to dark red crystals or powder, odourless**Odour Threshold (ppm):** Not applicable.**Vapour Pressure (mm Hg):** Not available.**Vapour Density (Air = 1):** Not applicable.**Evaporation Rate:** Not available.**Boiling Point (degrees C):** Not available.**Melting Point (degrees C):** > 300 °C**pH:** Not available.**Specific Gravity:** Not available.**Coefficient of Water/Oil distribution:** Not available.**SHIPPING DESCRIPTION****UN:** Not regulated.**T.D.G. Class:** Not regulated.**Pkg. Group:** Not regulated.**REACTIVITY DATA****Chemical Stability:** Stable under normal conditions of use and storage.**Incompatibility with other substances:** May react violently with risk of fire and explosion with strong oxidizing agents. May react violently with strong reducing agents.**Reactivity:** Avoid excessive heat, ignition sources, and all incompatible materials. Avoid generating dust or vapours.**FIRE AND EXPLOSION DATA****Flammability:** Not combustible. Under certain conditions, dust/air mixtures can explode if in contact with an electrostatic spark or other ignition source.**Extinguishing Media:** Use any means suitable for surrounding fire. Use water as spray or fog to absorb heat, cool containers, and disperse vapours. Firefighters should wear self-contained breathing apparatus and protective clothing sufficient to prevent contact.**Flash Point (Method Used):** Not available.**Autoignition Temperature:** Not available.**Upper Flammable Limit (% by volume):** Not available.**Lower Flammable Limit (% by volume):** Not available.**Hazardous Combustion Products:** CO_x, SO_x**Sensitivity to Impact:** None identified.**Sensitivity to Static discharge:** Under certain conditions, dust/air mixtures can explode if in contact with an electrostatic spark or other ignition source.**TOXICOLOGICAL PROPERTIES AND HEALTH DATA****Toxicological Data:****LD50:** Not available.**LC50:** Not available.**Effects of Acute Exposure to Product:****Inhaled:** High concentrations of dust may cause coughing, temporary irritation. Does not form vapour.**In contact with skin:** No human or animal information available. May cause irritation. May stain skin. Risk of absorption is slight.**In contact with eyes:** No human or animal information available. May cause irritation.**Ingested:** No human or animal information available. May cause irritation.**Effects of Chronic Exposure to Product:** Allergic reactions have occasionally been reported, generally following medical use (injection). Not relevant to occupational exposure.**Carcinogenicity:** No human or animal information available.**Teratogenicity:** No human or animal information available.**Reproductive Effects:** No human or animal information available.**Mutagenicity:** No human or animal information available. Positive results in bacteria test.**Synergistic Products:** None known.**PREVENTIVE MEASURES****Engineering Controls:** Local exhaust ventilation required.**Respiratory Protection:** Dust mask. NIOSH approved respirator for dusty conditions. For emergency or unknown concentrations, positive pressure, full-facepiece self-contained breathing apparatus.**Eye Protection:** Chemical safety glasses or goggles. Do not wear contact lenses.**Skin Protection:** Rubber or plastic gloves. Other protective clothing, sleeves, apron, boots, or coveralls, sufficient to prevent contact.**Other Personal Protective Equipment:** Safety shower and eye wash fountain readily available in work area.**Leak and Spill Procedure:** If dust is present, eliminate sources of ignition. Wet if necessary to avoid generating dust. Cleanup personnel must be thoroughly trained in the handling of hazardous materials, and must wear protective equipment and clothing sufficient to prevent any contact or inhalation. Prevent from entering sewers and waterways. Mix with inert material and collect in a manner that does not raise dust. Wash site of spillage thoroughly with detergent and copious amounts of water.**Waste Disposal:** Dispose of in compliance with local, provincial and federal regulations.**Handling Procedures and Equipment:** May be COMBUSTIBLE as DUST. Workers using this chemical must be properly trained in its hazards and its safe use. Wear appropriate protective clothing and equipment. Avoid generating dust or vapours. If dust is present, use non-sparking tools, and ground and bond containers where static electricity may be generated. Use the smallest amount possible for the purpose in an area with adequate ventilation. Maintain good housekeeping procedures to avoid accumulation of dust. Avoid contact. Avoid inhalation. Wash thoroughly after handling.

Storage Requirements: Store in cool, dry, well-ventilated area, out of direct sunlight, and away from heat or ignition sources and incompatible materials. Protect from moisture. Keep containers tightly closed. Protect from damage.

FIRST AID MEASURES

Specific Measures:

Eyes: Allow eyes to water naturally for a few minutes to dislodge particle. Do not allow victim to rub eyes. Flush eyes thoroughly with gently running water for at least fifteen (15) minutes, holding eyelids open while flushing. Get medical attention if irritation persists.

Skin: Remove contaminated clothing. Brush or wipe off dry material. Flush skin with plenty of running water until no evidence of chemical remains. Get medical attention if irritation persists.

Inhalation: Remove to fresh air. Give oxygen and get medical attention for any breathing difficulty.

Ingestion: If victim is alert and NOT convulsing, rinse mouth, give several glasses of water to drink to dilute. If discomfort occurs, or if a large amount has been ingested, get medical attention.

REFERENCES USED

Budavari: The Merck Index, 12th ed., 1997

CCINFO disc:

Sax, Lewis: Hawleys Condensed Chemical Dictionary, 11th ed., 1987

Suppliers Material Safety Data Sheets:

ADDITIONAL INFORMATION

Date Issued: 01-Oct-99

Revision: Sep 2014

Proposed WHMIS Designation: D2B (irritation)

Prepared by: Caledon Laboratories Ltd. (905) 877-0101