

CHEM INTERNATIONAL

MATERIAL SAFETY DATA SHEET

EMERGENCY #: CANUTEC (613) 996-6666

PRODUCT IDENTIFICATION AND PREPARATION INFORMATION

PRODUCT NAME: C.I. Revive

EFFECTIVE DATE: January 8, 2009

WHMIS CLASS: n/av

T.D.G. CLASSIFICATION: 8 (9.2)

UN: 1789

PG: II

MATERIAL USE: Toilet bowl and porcelain cleaner

HAZARDOUS INGREDIENTS

INGREDIENTS	CAS #	Wt%	TLV	LD50	LC50
Hydrochloric Acid	7647-01-0	5-10	5 ppm 7 mg/m ³	470 ppm for 30 min	n/a
Phosphoric Acid	7664-38-2	3-7	1 mg/m ³	1530 mg/kg	n/a

PHYSICAL DATA

BOILING POINT: 99°C

COEF. OF WATER/OIL DIST.: n/av

SPECIFIC GRAVITY (H₂O=1): 103 @ 20°C

PERCENT VOLATILE (by vol.): 92.0%

SOLUBILITY IN WATER: completely

PHYSICAL STATE: liquid

PH (as supplied): n/ap

FREEZING POINT: 0°C

APPEARANCE AND ODOUR: Wintergreen odour, dark blue

FIRE AND EXPLOSION DATA

FLAMMABILITY: No

FLASH POINT: n/ap

HAZARDOUS COMBUSTION PRODUCTS: n/ap

MEANS OF EXTINCTION: n/ap

SPECIAL FIRE HAZARDS: Protect fire fighters against corrosive fumes & liquid if released.

AUTO IGNITION TEMP: n/ap

REACTIVITY DATA

CHEMICAL STABILITY: yes

INCOMPATIBILITY: Reacts to most common metals, My react violently with many inorganic materials. Do not mix with oxides.

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen when in contact with metals; hydrogen chloride gas upon heating.

REACTIVITY: Acid may initiate polymerization of organic oxides.

FIRST AID

EYE: Hold eyelids open and wash thoroughly with clean water for at least 15 minutes. Get medical hekp promptly.

SKIN: Remove contaminated clothing immediately and flush with clean water for at least 15 minutes. Get medical help promptly.

INHALATION: Remove to fresh air. If not breathing give artificial respiration. Give oxygen by qualified personnel if breathing is difficult. Get medical help promptly.

INGESTION: Get medical help immediately. Patient should drink large amounts of milk or water. Do not induce vomiting.

TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY: Eyes contact (X), Skin contact (X), Skin absorption (X), Inhalation (X), Ingestion (X)

EFFECTS OF ACUTE EXPOSURE:

Coughing, choking, inflammation and ulceration of respiratory tract, corrosion of mucous membranes, esophagus, stomach, nausea, vomiting, intense thirst, diarrhea.

EFFECTS OF CHRONIC EXPOSURE:

Severe irritation to mucous membranes of the eyes, permanently visual damage, dermatitis, photosensitivity and severe burns, circulatory collapse and death may occur.

IRRITANCY: n/av

SENSITIZATION: n/av

CARCINOGENICITY: n/av

REPRODUCTIVE TOXIN: n/av

TERATOGENICITY: n/av

MUTAGENICITY: n/av

SYNERGISTIC MATERIALS: n/av

EXPOSURE LIMITS: n/av

PREVENTATIVE MEASURES

HAND PROTECTION: Rubber gloves.

EYE PROTECTION: Goggles.

RESPIRATORY PROTECTION: Purifying air respirator.

BODY PROTECTION: Rubber Apron.

FOOT PROTECTION: Acid resistant.

LEAK AND SPILL PROCEDURE: Do not allow chemical to enter sewers or waterways with large leak, dyke for later disposal. Evacuate upwind, wear protective clothing dilute spilled acid to reduce fume.

WASTE DISPOSAL: Protect natural and metal structures from acid. Review federal, provincial and local government requirements prior to disposal.

STORAGE REQUIREMENTS: Store containers away from metals and oxidizing materials particularly Nitric acid and Chlorates.

HANDLING PROCEDURES: Keep containers closed use adequate ventilation keep out of sun and away from direct sources of heat.

HMIS HAZARD RATING INFORMATION

FIRE

REACTIVITY

HEALTH

0 – Minimal, 1- Slight, 2 – Moderate, 3 – Serious, 4 – Extreme.

DISCLAIMER: Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases, data is not available and is so stated. Since conditions of actual product use are beyond the control of the supplier, it is assumed that the user of this material has been fully trained according to the mandatory requirements of WHIMIS. No warranty, expressed or implied is made, and supplier will not be liable for any losses, injuries, or consequential damage that may result from the use or reliance on any information contained in this form.

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