

MATERIAL SAFETY DATA SHEET

ALL CEILING CLEANER SOLUTION A

SECTION I: PRODUCT INFORMATION

TRADE NAME: CHEMSPEC: SOLUTION A (LIQUID ENERGIZER) FOR ALL CEILING CLEANER

SUPPLIER/MANUFACTURER: Chemspec-Hunnisett, 1260 Lakeshore Rd. E., Mississauga, Ont., L5E 3B8 (416) 421-5212

PREPARATION DATE: April 1, 2008

PRODUCT USE: One part of a product used to clean acoustic tiles

PRODUCT IDENTITY: Hydrogen Peroxide

CLASS C

SECTION II: HAZARDOUS INGREDIENTS

CHEMICAL IDENTITY: Hydrogen Peroxide

CAS# / NA# / UN#: 7722-84-1

CONC. (W/W): 30 - 60 %

OSHA PEL, ACGIH TLV: TLV @ 1ppm

TOXICITY: LD50 (oral, rat) 75 mg / kg

LD50 (dermal, rabbit) 12,200 mg / kg

LC50 (inhalation, rat) 2,000 ppm / 8 hrs.

SECTION III: PHYSICAL DATA

PHYSICAL STATE: Liquid

APPEARANCE AND ODOR: Clear, colorless, pungent odor

ODOR THRESHOLD: Not available

SPECIFIC GRAVITY: 1.196

VAPOR PRESSURE: 18 mm Hg @ 30 degrees C

VAPOR DENSITY: 0.8 to 1.0 (calculated)

EVAPORATION RATE: (Butyl Acetate = 1) >1

BOILING POINT: 114 degrees C

FREEZING POINT: - 0.40 degrees C

pH: 1.8

COEFFICIENT OF WATER/OIL DISTRIBUTION: Not applicable

WATER SOLUBILITY: 100 %

SECTION IV: FIRE AND EXPLOSION DATA

CONDITIONS OF FLAMMABILITY:

(a) Product Is Not flammable

(b) All Ceiling Cleaner, i.e. Solution A (Liquid Energizer) mixed with Solution B (Buffer) is not flammable but product itself, Solution A (Liquid Energizer), may cause a fire if allowed to dry on clothing, wood, leather, etc. and contact with flammable liquids or vapors may cause a fire.

MEANS OF EXTINCTION: Product is not flammable but if a fire occurs in its vicinity, the containers should be kept cool with water to prevent pressure increases and possible release of oxygen which will increase the burning rate of the existing fire.

FLASHPOINT & METHOD OF DETERMINATION: Not applicable

UPPER FLAMMABLE LIMIT: Not applicable

LOWER FLAMMABLE LIMIT: Not applicable

AUTO-IGNITION TEMPERATURE: Not applicable

HAZARDOUS COMBUSTION PRODUCTS: Oxygen

EXPLOSION DATA-SENSITIVITY TO MECHANICAL IMPACT: Not sensitive

EXPLOSION DATA-SENSITIVITY TO STATIC DISCHARGE: Not sensitive

SECTION V: REACTIVITY DATA

CONDITION UNDER WHICH THE PRODUCT IS CHEMICALLY UNSTABLE: Excessive heat and contamination of any kind.

NAME OF ANY SUBSTANCE OR CLASS OF

SUBSTANCE WITH WHICH THE PRODUCT IS INCOMPATIBLE: Reducing agents, combustible materials (such as wood, cloth or organic materials), metals (iron, copper and their alloys), dirt, rust, cyanides, hexavalent chromium compounds, nitric acid, potassium permanganate, and heavy metals and their salts.

CONDITIONS OF REACTIVITY: Contamination of any kind. Product will not polymerize.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxygen

SECTION VI: TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY:

SKIN CONTACT: Brief exposure will irritate the skin and bleach it white.

SKIN ABSORPTION: Not known

EYE CONTACT: Vapors will irritate the eye. Liquids & mist may burn the eyes and direct liquid contact may cause irreversible damage.

INHALATION: Vapors and mist are severe irritants to the nose and throat.

INGESTION: Severe irritant to mouth and throat and swallowing may produce burning of the gastro-intestinal tract.

EFFECTS OF ACUTE EXPOSURE TO PRODUCT: Initial skin and respiratory irritation may lead to ulceration. Acute exposure to the eyes may lead to eye corrosion with corneal or conjunctival ulceration.

EFFECTS OF CHRONIC EXPOSURE TO PRODUCT: Initial skin and respiratory irritation may lead to ulceration. Acute exposure to the eyes may lead to eye corrosion with corneal or conjunctival ulceration.

EXPOSURE LIMITS: (PEL (OSHA), TLV (ACGIH), AEL (DU PONT), etc.) The OSHA 8 - hour Time Weighted Average (TWA) and ACGIH TLV - TWA are 1 ppm., 1.4 mg / cubic meter.

IRRITANCY OF PRODUCT: Skin - mild. Eyes - severe. Inhalation - mild. Ingestion - severe.

SENSITIZATION TO PRODUCT: Not known

CARCINOGENITY: Not listed as a carcinogen by IARC, NTP, OSHA, ACGIH or DUPONT.

REPRODUCTIVE TOXICITY: Not known

TERATOGENICITY: Inconclusive results; considered no reproductive toxicity.

MUTAGENICITY: Inconclusive results; considered to have no mutagenic activity.

NAME OF TOXICOLOGICALLY SYNERGISTIC PRODUCTS: Not known.

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SECTION VII: PREVENTATIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT: Chemical splash goggles and appropriate gloves (neoprene, butyl rubber or vinyl) should be worn. Have available and wear as needed: rubber boots, full length face shield, rubber, neoprene, or polyethylene apron. Do not wear leather gloves or leather soled, porous or scuffed shoes. This is for Solution A only

ENGINEERING CONTROLS: Local mechanical exhaust ventilation is normally capable of maintaining emissions at the point of use below PEL. If it is suspected a TLV of 1ppm exists, self contained breathing apparatus is required.

PROCEDURES TO BE FOLLOWED IN CASE OF A LEAK OR SPILL:

SMALL SPILLS: Wear protective clothing as indicated above. Flood area with water and drain to sewer. This would apply to one container as it holds only 460 ml (16 oz.) of product.

LARGE SPILLS: Comply with Federal, Provincial and Municipal regulations. Wear protective clothing as indicated above. May be destroyed with sodium metabisulfite or sodium sulfite (1.9 lbs. SO2 equivalent per lb. of peroxide). Contain by diking with a non-combustible absorbent and dilute with water and comply with applicable government regulations.

WASTE DISPOSAL: Pump residue into DOT - approved waste containers or absorb the residue on non-combustible absorbent and place that residue in DOT-approved waste containers.

HANDLING PROCEDURES AND EQUIPMENT: Avoid prolonged or frequent contact when handling product. No equipment required aside from protective clothing.

STORAGE REQUIREMENTS: Store in a cool dry place. Never return unused peroxide to original container. Keep away from heat sources, sparks and flames.

SPECIAL SHIPPING INFORMATION: Product is always shipped in one container with Solution B (Buffer). Hydrogen Peroxide, Aqueous Solution Class 5.1 (8) UN 2014 Packing Group II. Note that Solution A bottles are enclosed in a secured plastic bag, in case of leakage.

SECTION VIII: FIRST AID MEASURES

IN CASE OF EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes and lift upper and lower eyelids occasionally. Seek immediate medical attention.

IN CASE OF SKIN CONTACT: Immediately flush skin with plenty of water while removing contaminated clothing and shoes. Seek medical attention if irritation persists after flooding. Thoroughly wash contaminated clothing.

IF INHALED: Remove to fresh air. Administer artificial respiration if not breathing and medical attention.

IF INGESTED: Do not induce vomiting. If conscious, give lots of water. Obtain medical attention.

PHYSICIAN: If swallowed, large amounts of oxygen may be released quickly. Insertion of a gastric tube may be advisable.

SECTION XI: PREPARATION INFORMATION

PREPARED BY Chemspec-Hunnisett

PHONE NUMBER: (416) 421-5212

24 HOUR EMERGENCY NUMBER: CANUTEC 1-613-996-6666

SPECIAL PRECAUTIONS

One should always use chemicals with awareness of potential hazards, known and unknown, and their effect on the human - system. We urge users to minimize employee exposure to all chemicals, including this product and to keep the level of exposure commensurate with good industrial hygiene practices.

DISCLAIMER OF LIABILITY

The manufacturer and seller warrants that this product conforms to its standard specifications when used according to directions. As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim all expressed or implied warranties of merchantability or of liability from the use of this product. The information contained herein, as of this date, is believed to be true and accurate, but it is the user's obligation to study the MSDS and determine the conditions for the safe use of this product.