

# MATERIAL SAFETY DATA SHEET

## SECTION 1: PRODUCT IDENTIFICATION

Product Name: **EQUAL CONCENTRATED NEUTRALIZER**

Product Use: Calcium and salt remover

WHMIS Class: D2B, E

TDG Classification: Not regulated

Packing group: not applicable

UN Number : not applicable

T.D.G. Shipping Name: not applicable

**Manufactured by:**

**Chemotec (PM) Inc.**

8820 Place Ray Lawson

Anjou, Quebec, Canada H1J 1Z2

Telephone: (514) 729-6321; 1-800-729-6321

**Emergency Phone:** as above or call **CANUTEC** (613) 996-6666 in case of **chemical emergency only.**

## SECTION 2: HAZARDOUS INGREDIENTS

<u>Ingredients</u>	<u>CAS #</u>	<u>Wt %</u>	<u>TLV</u>	<u>LC<sub>50</sub></u>	<u>LD<sub>50</sub></u>
Citric acid	77-92-9	7-13	n/a	n/a	11700 mg/kg (oral, rat) 5040 mg/kg (oral, mouse)
Monosodium phosphate	7558-80-7	1-5	n/a	n/a	8290 mg/kg (oral, rat)
Dipropylene Glycol monomethyl ether	34590-94-8	1-5	n/a	na	n/a

## SECTION 3: PHYSICAL DATA

Boiling Point (°C): Approx. 100.

Vapor Pressure (mm Hg): 20 (water)

Vapor Density (Air = 1): 0.6 (water)

Solubility in Water: Complete

Physical State: Liquid

Appearance and Odor: colorless transparent liquid.

Specific Gravity (H<sub>2</sub>O = 1): 1.08 at 20 °C

% Volatile (Wt %): 70 - 80

Evaporation Rate (nBuAc = 1): 0.4 (water)

pH (as supplied): 3.0 - 4.0

Viscosity: < 1000 cps at 25 °C

Odour Threshold (ppm): n/a

## SECTION 4: FIRE AND EXPLOSION DATA

Flammability: Non flammable, non combustible.

Flash Point (TCC, °C): > 93.3      LEL: Not applicable      UEL: Not applicable

Hazardous Combustion Products: carbon oxides, phosphorus oxides, pyrophosphoric acid, metaphosphoric acid, polyphosphoric acid.

Autoignition Temperature (°C): Not available.

Means of Extinction: Foam, dry chemicals, carbon dioxide, water.

Special Fire Hazards: None.

## SECTION 5: REACTIVITY DATA

Conditions for Chemical Instability: This product is stable under normal conditions. It does not polymerize.

Incompatible Materials: Strong oxidizing agents, alkalis, carbonates, organic peroxides, sulfides, cyanides, fluorides.

Reactivity and Under What Conditions: Avoid incompatible materials.

Hazardous Decomposition Products: carbon oxides, phosphorus oxides, pyrophosphoric acid, metaphosphoric acid, polyphosphoric acid.

## SECTION 6: TOXICOLOGICAL PROPERTIES

Route of Entry: eyes, skin, ingestion, inhalation.

### **EFFECTS OF ACUTE EXPOSURE:**

Eye: Strong irritation.

Skin: Irritation and dry skin condition may appear.

Ingestion: Gastrointestinal pain, gastritis, vomiting. Severe intoxication: nausea, vomiting, vertigo, cardio vascular collapse, asphyxia and death.

Inhalation: Irritation of mucous membrane and superior respiratory tract. Coughing and respiratory difficulties.

## **EFFECTS OF CHRONIC EXPOSURE:**

Irritancy: Prolonged or repeated contacts with skin may cause some irritation: skin dryness, redness and dermatitis.

Skin sensitization: Not known

Carcinogenicity: No ingredients are carcinogenic.

Teratogenicity: No ingredients are teratogenic.

Mutagenicity: No ingredients are mutagenic..

Synergistic Materials: none known.

## **SECTION 7: PREVENTION MEASURES**

Gloves: Plastic or rubber gloves.

Eye Protection: Safety goggles with side shields.

Respiratory Protection: Not required, if adequate ventilation is available.

Other Protective Equipment: Waterproof boots and apron if large spill.

Engineering Controls: Provide adequate ventilation.

Leak and Spill Procedure: Wear personal protective equipment. Stop the leak. Absorb the product with inert absorbent and place it in a closed container.

Waste Disposal: Dispose according to federal, provincial and regional regulations.

Storage Requirements: **KEEP OUT OF REACH OF CHILDREN.** Store in a closed container, in a cool, dry place. Do not store with food products. Keep from freezing.

## SECTION 8: FIRST AID

**Eye:** Immediately rinse with plenty of water for 15 minutes, keeping eyelids open. Seek medical attention immediately.

**Skin:** Rinse with potable water for 15 minutes. Remove soiled clothes and wash before wearing. Seek medical attention should an irritation develop.

**Inhalation:** Bring person to fresh air. Seek medical attention if discomfort persists

**Ingestion:** Give plenty of water. Never administer anything by mouth if the person is unconscious. Do not induce vomiting. Seek immediate medical attention.

## SECTION 9: PREPARATION INFORMATION

**Date:** 2010-02-23

**Phone:** (514) 729-6321

**Prepared by:**

Chemotec (PM) Inc.

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**Abbreviation:**

n/a: not available

### 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 control of the supplier, it is assumed that users of this material have been fully trained according to the mandatory requirements of WHMIS. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages that may result from the use of or reliance on any information contained in this form. If user requires independent information on ingredients in this or any other material, we recommend contact with the Canadian Center for Occupational Health and Safety ( CCOHS ) in Hamilton, Ontario ( 1-800-263-8276 ) or CSST in Montreal ( 514-873-3990 ).