

MATERIAL SAFETY DATA SHEET

MSDS DATE : 1 January 1997
PRODUCT NAME : CHEMTEC ONE

I. PRODUCT IDENTIFICATION**MANUFACTURER**

CHEMTEC INT'L. For information call 513-474-2090 Fax 513-474-2054
7771 Woodstone Drive, Suite 100 Toll Free 1-888-889-7779
Cincinnati Ohio 45244-2855

CHEMICAL:

CHEMTEC ONE ... A PROPRIETARY BLEND OF WATER SOLUBLE REACTIVE SILICATES.

DOT proper shipping name: NA DOT Hazard Class: NA
DOT Identification Number: NA DOT Hazardous Substance: NA
H.S. 2839.19.0000

HMIS HAZARD RATINGS National painting & Coatings Association
Health Hazard 2 Fire Hazard 0 Reactivity 0

SARA / TITLE III HAZARD CATEGORIES

Immediate (ACUTE) health : yes Reactivity : no Fire : no
Delayed (CHRONIC) health : no Sudden release of pressure : no

II HEALTH HAZARD INFORMATION**WARNING LABELING**

SIGNAL WORD: **WARNING**

STATEMENT OF HAZARD: Irritating to skin, eyes, mucous membranes of the respiratory and digestive tract.

EMERGENCY AND FIRST AID PROCEDURES

Irritating to skin, eyes, mucous membranes of the respiratory tract, mouth throat esophagus and stomach

- **EYES:** Immediately flush eyes with a directed stream of water for at least 15 minutes while forcibly holding eye lids apart to ensure complete irrigation of all eye and lid tissue. Get Medical Attention Immediately
- **SKIN:** Wash and flush skin thoroughly with soap and cool water for at least 15 minutes after contact to avoid irritation. Wash contaminated clothing before reuse. Get Medical Attention If Irritation Develops or Persists.

II HEALTH HAZARD INFORMATION continued

- **INHALATION:** If vapors are inhaled remove to fresh air. Breathing oxygen maybe administrated if required. If respiration stop perform CPR. Get Medical Attention Immediately If Symptoms Develop.
- **INGESTION:** NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. IF SWALLOWED DON'T INDUCE VOMITING. Give large amounts of water, If available give 16 plus ounces of milk. If vomiting occurs spontaneously KEEP AIRWAYS CLEAR. Get Medical Attention Immediately.

ROUTES OF EXPOSURE

INHALATION: Exposure to mist or spray may cause coughing, sneezing or other symptoms of upper respiratory tract irritation. SKIN Can cause irritation of skin. EYES: Causes irritation and pain, redness and tearing.

INGESTION: Can cause irritation to mucous membranes of the digestive tract.

EFFECTS OF OVER EXPOSURE:

ACUTE: Irritating to skin, eyes, mucous membranes of the respiratory and digestive tract.
CHRONIC: No known chronic effects.
TOXICOLOGY: OF CONCENTRATE LD50 2000 TO 3000 mg/kg

PRECAUTIONARY STATEMENTS: This proprietary formulation is not subject to restrictive or special handling defined under environmental regulations. OSHA regulations are being complied with by these statements.

- When handling material use personal protective equipment such as long pants, long sleeve shirts, chemical splash goggles, face shield, rubber gloves and boots...clean immediately with soap and water.
- Avoid getting material in eyes or on skin.
- Use only with adequate ventilation
- Avoid breathing mist or spray asthma symptoms may be aggravated
- Use mist rated respiratory protective equipment when exposed to mist or spray
- Do not ingest
- Avoid contact with acidic material when in the liquid state -- it will gel
- Use no aluminum containers or equipment.
- Do not allow contact with glass, paint or aluminum...wash thoroughly and immediately with soap and water after contact to avoid chemical reaction.
- Keep container closed.

III IMPORTANT COMPONENTS

CHEMTEC ONE

- **PROPRIETARY BLEND OF A WATER SOLUBLE REACTIVE SILICATES. COMPONENTS ARE NOT A LISTED CARCINOGEN.**

IV FIRE AND EXPLOSION DATA

FLASH POINT: NA AUTOIGNITION: NA FLAMMABLE LIMITS IN AIR % BY VOLUME: NA
EXTINGUISHING MEDIA: NA **THIS PRODUCT IS NON-COMBUSTIBLE**
FIRE FIGHTING PROCEDURE: **FIRE FIGHTERS SHOULD USE THE BEST AVAILABLE MEANS TO PUT OUT THE FIRE. FIRE FIGHTERS SHOULD BE WEARING PROTECTIVE CLOTHING TO PROTECT FROM EXPOSURE.**

V SPECIAL PROTECTION

VENTILATION REQUIREMENTS: WHERE MIST OR SPRAY MAY BE GENERATED USE ADEQUATE LOCAL EXHAUST VENTILATION.

SPECIFIC PERSONAL PROTECTIVE EQUIPMENT

- **RESPIRATORY:** Use a NIOSH/MSA approved mist rated respirator following manufacturer's recommendations where mist or spray may be generated especially in a confined space.
 - **EYES:** Wear chemical safety goggles, plus full face shield to protect against splashing when appropriate.
 - **GLOVES:** Rubber gloves should be worn. Gloves may be cleaned by washing with a mild soap and water.
 - **OTHER CLOTHING AND EQUIPMENT:** Standard skin covering work clothing. Standard work shoes. Wash and dry soiled clothing before reuse. Shower and eyewash facilities should be accessible.
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VI. PHYSICAL DATA

pH: 11.3 concentrate (ready to use)
BOILING POINT@ 760 mm Hg: 214-216 oF
FREEZING POINT: 30°F
VAPOR PRESSURE: NA
SPECIFIC GRAVITY (H₂O=1): 1:41 @ 20°C concentrate (ready to use is less)
SOLUBILITY IN H₂O BY WEIGHT: 100%
VAPOR DENSITY (AIR=1): NA
APPEARANCE AND ODOR: Colorless, turbid liquid; none to slightly soapy odor.

VII. REACTIVITY DATA

CONDITIONS CONTRIBUTING TO INSTABILITY:

Under normal conditions the material is stable.

INCOMPATIBILITY:

This product is alkaline and gels when mixed with acids.

HAZARDOUS DECOMPOSITION PRODUCTS:

None

CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATIONS:

None known.

VIII. HANDLING AND STORAGE

HANDLING AND STORAGE PRECAUTIONS: Do not store in aluminum containers as flammable hydrogen gas can be generated. Do not use aluminum fittings or transfer lines. Contact with acids will cause gelling of the silicate component and also may produce some heat. CLEAN up equipment with soap and water as soon as possible after use. CAUTION, leaving residue in spraying equipment may damage equipment.

IX. ENVIRONMENTAL PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: If significant amount of concentrate material is spilled, steps should be taken to contain liquids and prevent discharges to streams or sewer systems. Spills should be reported, if required, to the appropriate local, state and federal regulatory agencies. READY TO USE FORMULATIONS CAN BE DILUTED AND WASHED TO DRAINS WITH PLENTY OF WATER WHEN NOT SIGNIFICANT AMOUNTS. IF OVER 109 GALLONS, RETAIN FOR PROPER DISPOSITION.

WASTE DISPOSITION METHOD: This ready to use formulation is not subject to restrictive or special handling defined under environmental regulations. For concentrate clean-up action should be carefully planned and executed. Shipment, storage, and/or disposal of waste materials may be regulated and action to spilled materials must meet the applicable rules. The appropriate agencies should be assured proper action being taken. If any questions exist ...call CHEMTEC INT'L @ 513-474-2090

X. ADDITIONAL INFORMATION

OSHA Standard 29CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, material safety data sheets, training and access to written records. We request that you, and it is your legal duty to make all information in this Material Safety Data Sheet available to your employees.

FOR INDUSTRIAL USE ONLY The information presented is based on data considered to be accurate at the time of preparation of this MSDS. No warranty or representation expressed or implied is made as to the accuracy or completeness of this information. Additionally no responsibility will be assumed for any damage or injury resulting from abnormal or misuse, from failure to adhere to recommended practices, or from hazards inherent in the nature of this product.