****** MATERIAL SAFETY DATA SHEET ******

Chesapeake Corporation
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St. Louis, MO 63139

Emergency Phone: 314-644-1300
Chemtrac Phone: 800-424-5303

Chemical Name and Synonyms: Methylene Chloride
Product Code: RC 02
Revised: 01/31/92
Chemical Family: Chlorinated Hydrocarbons

#1 Fleximent

I. HAZARDOUS INGREDIENTS

CAS# 75-09-2
Formulation Range 100

II. PHYSICAL DATA

Boil Point: 102°F
Specific Gravity: 1.3200
Vapor Pressure: na
Evaporation Rate: na
% Volatile by Volume: 100.00

Appearance and Odor: Colorless liquid, mildly sweet odor.

VOC

III. FIRE AND EXPLOSION HAZARD DATA

Flash Point: None
Flammability Class: N/A

Extinguisher Media
Fires involving this product are unlikely, but should one occur, it may be controlled by water spray, dry chemical, carbon dioxide or foam.

Special Fire Fighting Procedures
Pressure-demand, self-contained respiratory protection should be provided for fire fighters in buildings or confined areas where this product is stored. Storage containers exposed to fire should be kept cool with a water spray, in order to prevent pressure build-up.

Unusual Explosion and Fire Hazards
This product is non-flammable and non-explosive under normal conditions of use. At high temperatures, this product decomposes to give off hydrochloric acid as gas plus other toxic and irritating vapors such as phosgene. If storage containers are exposed to excessive heat, over-pressureization of the containers can result.

IV. EMERGENCY AND FIRST AID PROCEDURES

Chemical Name: Dichloromethane
Revised: 01/31/92

Potential Carcinogen: Yes
I.A.R.C. Monograph: Yes
National Toxicology Program: Yes
CSHA: Yes
IV. EMERGENCY AND FIRST AID PROCEDURES Continued

- **Eyes:**
  - Immediately flush eyes with large amounts of water for at least 15 minutes, holding eyelids apart to ensure flushing of the entire surface. SEEK MEDICAL ATTENTION.

- **Ingestion:**
  - DO NOT INDUCE VOMITING! If more than trace quantities have been swallowed and the patient is conscious wash out mouth with water and give 200-300 ml (half a pint) of warm water to drink. OBTAIN MEDICAL ATTENTION on site or transport to hospital.

- **Respiratory Injuries:** Following ingestion, absorbent such as activated charcoal may be of value. Gastric lavage may be effective when performed by a physician within 4 hours of ingestion.

- **Inhalation:**
  - Remove to fresh air. If breathing has stopped give mouth-to-mouth resuscitation. If breathing is difficult, have trained person administer oxygen. Get immediate medical attention.

- **Skin:**
  - Wash contaminated areas with plenty of soap and water. A soothing ointment may be applied to irritated skin after thorough cleansing. Remove contaminated clothing and footwear and wash clothing before reuse. Discard footwear which cannot be decontaminated. SEEK MEDICAL ATTENTION.

- **Special Notations to Physicians:**
  - **CAUTION:** Epinephrine or other stimulant may cause ventricular arrhythmia due to potential inhalation of endogenous epinephrine.

- **Effects of Exposure - Eyes:**
  - Liquids or vapors can be mildly irritating to the eye.

- **Effects of Exposure - Ingestion:**
  - May cause irritation of the gastrointestinal tract with vomiting. If vomiting results in aspiration, chemical pneumonia could follow. Absorption through the gastrointestinal tract may produce symptoms of central nervous system depression, ranging from light-headedness to unconsciousness and death.

- **Effects of Exposure - Inhalation:**
  - Highly irritant to mucous membranes and the upper respiratory tract. Concentrations insufficient to produce unconsciousness induce gastrointestinal upset, and may progress to serious kidney and liver damage.

- **Effects of Exposure - Skin:**
  - Mildly irritating to skin. Skin contact may produce a burning sensation. Prolonged or repeated contact may cause skin to become reddened, rough, and dry due to the removal of natural oils and may result in dermatitis. May be absorbed through the skin, although not expected to produce toxicity through this route.

V. REACTIVITY DATA

**Conditions to Avoid:**
Under normal conditions, this material is stable. Avoid open flames, welding arcs, or other high temperature sources which induce thermal decomposition to irritating and corrosive HCl from solvent vapor. Strong UV light (eg welding arc) can cause significant phosphene to be generated.

**Hazardous Decomposition Products:**
Involvement in fire or high temperatures form hydrogen chloride and very small amounts of phosphine and chlorine. Solvent decomposition occurs when catalyzed by ester chlorides which can be produced by reaction of HCl and esters in the system. In the presence of aluminum and excessive water, the decomposition can proceed rapidly with production of large amounts of heat and HCl fumes.

**Material to Avoid:**
Avoid contact with this product with alkali metals, pure oxygen, open flames, and welding arcs. This product should not be used in long-term contact with aluminum or zinc or their alloys.

VI. ENVIRONMENTAL PROTECTION

**Precautions to be taken in handling and storage:**
Under normal conditions this product can be stored satisfactorily in mild steel without an interior lining. Aluminum is not recommended for storage and handling. Dike storage tanks separately to contain 10% of tank volume. Vent indoor tanks to an outside location as escaping vapors will not contaminate any work area.

Keep container tightly closed and properly labeled. Store container in cool, dry, ventilated place out of direct sunlight.
VI. ENVIRONMENTAL PROTECTION Continued

**Spill and Leak Procedures**

Spills should be stopped. Spills should be contained and cleaned up immediately. Large spills should be removed by using a vacuum truck. Smaller spills may be soaked up with compatible absorbent materials which should then be placed in approved container to await proper treatment or disposal. Spills on areas other than pavement, e.g. dirt or sand, may be handled by removing the affected soils and placing in approved containers. Persons performing clean-up work should wear adequate personal protective equipment and clothing.

**Waste Disposal Methods**

The materials resulting from clean-up operations may be hazardous waste and, therefore, subject to specific regulations. Package, store, transport and dispose of all clean-up materials and any contaminated equipment in accordance with all applicable federal, state, and local health and environmental regulations. Shipment of waste materials may be subject to manifesting requirements per applicable regulations. Appropriate disposal will depend on the nature of each waste material and should be performed by competent, properly permitted contractors. Ensure that all responsible federal, state and local agencies receive timely and proper notifications of the spill and disposal of waste.

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VII. EMPLOYEE PROTECTION

**Respiratory Protection**

Use in well ventilated areas. Where engineering controls are not feasible, use adequate local exhaust ventilation. Local exhaust ventilation should be used wherever mist, spray or vapor may be generated.

117.1-1977 for tank and confined space entry.

**Protective Gloves**

Solvent resistant gloves should be worn, such as Viton, polyvinyl alcohol, or equivalent. Gloves contaminated with product should be discarded.

**Eye Protection**

Use chemical safety goggles, plus full face shield to protect against splashing when appropriate.

**Other Protection**

Standard work clothing. Standard work shoes; discard shoes that cannot be decontaminated. Store contaminated clothing in well ventilated cabinets or closed containers. Wash contaminated clothing and dry before reuse. Emergency shower and eyewash facility should be in close proximity. Avoid contact with skin and avoid breathing vapors. Do not eat, drink, or smoke in work area. Wash hands prior to eating, drinking, or using restroom. Safety shower and eyewash should be in areas of use. Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities.

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VIII. ADDITIONAL INFORMATION

**DOT Proper Shipping Name/Classification:**

Methylene Chloride

DRY-A

UN 1533

**SARA, Title III:**

**Specific Instructions:**

National Paint & Coating Association Hazardous Material Identification System

Health: 3

Flammability: 1

Reactivity: 0

Personal Protection: 0
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