



## 1. CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Name: MS-752 Product Use: Cleaning Agent

Vertrel MCA Cleaning Agent

MANUFACTURER/DISTRIBUTOR:

Miller-Stephenson Chemical 55 Backus Ave Danbury, Conn. 06810 USA (203) 743-4447 Emergency Phone Number: (800) 424-9300

# 2. HAZARDS IDENTIFICATION

#### **Hazard classification**

Serious Eye Damage/Irritation: Category 2B.
Specific Target Organ Toxicity (single exposure): Category 3.

## Label elements:

Signal word

Warning

# **Pictogram**



#### **Hazard Statements**

Causes eye irritation. May cause drowsiness or dizziness.

## **Prevention Statements**

Avoid breathing dust/fume/gas/mist/vapors/spray.

Wash skin thoroughly after handling.

Use only outdoors or in a well-ventilated area.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Call a POISON CENTER or doctor/ physician if you feel unwell

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention.

Store in a well-ventilated place. Keep container tightly closed.

Dispose of contents/ container to an approved waste disposal plant.

#### Other Hazards

Vapors are heavier than air and can cause suffocation by reducing oxygen available for breathing. Rapid evaporation of the product may cause frostbite. Misuse or intentional inhalation abuse may lead to death without warning symptoms, due to cardiac effects.

### 3. INGREDIENTS

Material (s)	CAS No.	Approximate %
Trans,1,2-Dichloroethylene	156-60-5	30 - 50

Actual concentration is withheld as a trade secret

### 4. FIRST AID MEASURES

Inhalation: Remove patient to fresh air. Get medical attention if symptoms occur.

**Eye:** Immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Continue to rinse. Get medical attention.

**Skin:** Immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before use. Thoroughly clean shoes before reuse. Get medical attention.

**Oral:** DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.

#### Most important symptoms/effects, acute and delayed: May cause cardiac arrhythmia.

Skin contact may provoke the following symptoms: Dermatitis, Discomfort, Pain, Superficial burning sensation, Redness, Rash, Itching, Swelling of tissue, Irritation

Eye contact may provoke the following symptoms: Pain, Tearing, Swelling of tissue, Redness, Impairment of vision

Inhalation may provoke the following symptoms: Unconsciousness, Drowsiness, Lack of coordination, confusion, Dizziness, Central nervous system depression

Effects of breathing high concentrations of vapor may include: Tiredness, Drowsiness, Central nervous system effects, Convulsions Adverse effects from repeated inhalation may include central nervous system effects

Aspiration may cause pulmonary edema and pneumonitis. Causes eye irritation. May cause drowsiness or dizziness.

**Notes to Physician:** Treat symptomatically and supportively.

## 5. FIRE FIGHTING MEASURES

Flammability: This product is not flammable. Does not flash using Pensky-Martens closed cup.

Suitable Extinguishing Media: Water spray, Alcohol-resistant foam, Dry chemical, Carbon dioxide (CO2)

Unsuitable extinguishing media: No applicable data available.

**Special hazards:** Exposure to combustion products may be hazardous to health. Hazardous combustion products: Hydrogen fluoride, Carbonyl fluoride, Carbon oxides, Chlorine compounds.

Special Fire Fighting Instruction: In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

**Further information:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Evacuate personnel to safe areas. Cool containers with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Evacuate personnel to safe area. Ventilate area, especially low or enclosed places where heavy vapors might collect. In case of insufficient ventilation, wear suitable respiratory equipment.

**Environmental precautions:** Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g.by containment or barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

**Methods and materials for containment and clean up:** Contain spillage, and then collect with inert absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations.

### 7. HANDLING AND STORAGE

**Handling:** Use in a well-ventilated area to avoid breathing vapors. Vapors are heavier than air and accumulate in low areas. Use appropriate respiratory protection when ventilation is unavailable. Do not swallow. When using do not eat, drink, or smoke. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Take care of prevent spills and minimize release to the environment.

**Storage Conditions:** Store in a well-ventilated, cool, dry area. Do not store sources of heat, in direct sunlight or where temperatures exceed 120F/49C.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits: TLV (ACGIH) PEL (OSHA)

Trans, 1,2-Dichloroethylene 200 ppm, TWA 200 ppm, TWA

Respiratory Protection: General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection

Eye Protection: Avoid eye contact. Use chemical goggles or safety glasses with side shields.

**Skin Protection:** Avoid contact with skin. Use gloves impervious to this material (eg. Viton). For special applications, we recommend clarifying the resistance to chemicals of the afore mentioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday. Breakthrough time is not determined for the product. Change gloves often.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

**Boiling Point:** 102°F/39°C **Percent Volatile by Volume:** 100

**Density:** 1.41 g/cc @ 77°F/25°C **Vapor Pressure:** 464 mmHg @ 77°F/25°C

Vapor Density (Air=1): 5.4 Solubility in H<sub>2</sub>O: 15 g/l @ 77°F/25°C

pH Information: 7 Evaporation Rate (CC14=1): N.A.

Form: Liquid Appearance: Clear & Colorless

Color: Colorless Odor: Ether-like

### 10. STABILITY AND REACTIVITY

Reactivity: Not classified as a reactivity hazard.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: None known.

Material and Conditions to Avoid: None known.

**Decomposition:** No hazardous decomposition products are known.

#### 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure: Inhalation. Skin contact. Ingestion. Eye contact.

Trans-1,2-Dichloroethylene

Acute Oral: LD50: 7902 mg/kg in rats

**Acute Dermal:** LD50: > 5,000 mg/kg in rabbits

Acute Inhalation: 4 hour LC50: 95.5 mg/l in rats. Test atmosphere: vapor. Method: OECD Test Guideline 403

Skin Corrosion/Irritation: Mild skin irritation in rabbit. Method: OECD Test Guideline 404

Serious Eye Irritaion/ Eye Irritation: Mild eye irritation in rabbit. Reversing within 7 days. Method: OECD Test Guideline 405

Skin Sensitization: Not classified based on available information.

**Respiratory Sensitization:** Not classified based on available information.

Germ Cell Mutagenicity: Evidence does not support classification of a germ cell mutagen.

Carcinogenicity: Not classified based on available information.

Reproductive toxicity: Embryo-fetal development: Negative in rat by inhalation. Method: OECD Test Guideline 414

STOT-single exposure: May cause drowsiness and dizziness.

STOT-repeated exposure: Inhalation: No significant health effects observed in animals at concentrations of 250 ppmV/6h/d or less.

**Aspiration toxicity:** Not classified based on available information.

## 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

## Trans-1,2-Dichloroethylene

96 hour LC50 in Lepomis marochirus (Bluegill sunfish): 135 mg/l. Based on data from similar materials.

48 hour EC50 in Daphnia magna (Water flea): 220 mg/l

48 hour EbC50 in Pseudokirchneriella subcapitata (Green algae): 36.36 mg/l. Method: OECD Test Guideline 201

**Biodegradability:** Not readily biodegradable. Method: OECD Test Guideline 301D **Bioaccumulative potential:** Partition coefficient: n-octanol/water: log Pow: 2.06

Mobility in soil: no data available.

#### 13. DISPOSAL CONSIDERATIONS

If recycling is not practicable, dispose of in compliance with local regulations. Remove to a permitted waste disposal facility.

#### 14. TRANSPORT INFORMATION

#### U.S. DOT

Not Regulated

## IATA

Not Regulated

#### **IMDG**

Not Regulated

## 15. REGULATORY INFORMATION

### U.S. Federal Regulations

**TSCA:** All ingredients are listed in TSCA inventory.

1,1,1,2,2,3,4,5,5,5-Decafluoropentane (CAS# 138495-42-8) - The United States Environmental Protection Agency has established a Significant New Use Rule (SNUR; 40 CFR 721.5645) for this product. This product contains one or more substances which requires export notification under TSCA Section 12(b) and 40 CFR Part 707 Subpart D.

**SARA 304 Extremely Hazardous Substances Reportable Quantity:** This material does not contain any components with a section 304 EHS RQ.

**SARA 302 Extremely Hazardous Substances Threshold Planning Quantity:** This material does not contain any components with a section 302 EHS RQ.

SARA 311/312 Hazards: Serious eye damage or eye irritation. Specific target organ toxicity (single or repeated exposure).

**SARA 313 Regulated Chemicals:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**California Proposition 65**: This product does not contain chemicals known to the State of California to cause cancer and/or birth defects or other reproductive harm.

# 16. OTHER INFORMATION

# **NPCA-HMIS Ratings:**

Health - 1 Flammability - 0 Reactivity - 0

Personal Protective rating to be supplied by user depending on the conditions.

#### FOR INDUSTRIAL USE ONLY

### **REVISION DATE: JULY 2020**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user.