



## 1. CHEMICAL PRODUCT/COMPANY IDENTIFICATION

**Name:** MS-260 Safezone Cleaner for  
Plastic, Glass & Metal

**Product Use:** Aerosol cleaner for  
Plastic, Glass & Metal

### MANUFACTURER/DISTRIBUTOR:

Miller-Stephenson Chemical  
George Washington Highway  
Danbury, Conn. 06810 USA  
(203) 743-4447

**Emergency Phone Number:**  
(800) 424-9300

**Date Revised:** May 2010

## 2. INGREDIENTS

<u>Material (s)</u>	<u>CAS #/</u>	<u>Approximate %</u>
Ethanol	64-17-5	3 – 5
2-Butoxyethanol	111-76-2	3 – 5
Propane	74-98-6	1 – 3
n-Butane	106-97-8	1 – 3
Non-hazardous and other components below reportable levels		80 – 90

## 3. HAZARDS IDENTIFICATION

**Emergency Overview:** Flammable propellant. Contents under Pressure. Heated can may rupture.

**Eyes:** Health injuries are not known or expected under normal use.

**Skin:** This product maybe harmful if it is absorbed through the skin. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

**Inhalation:** Intentional misuse by concentrating and inhaling the product can be harmful or fatal.

**Ingestion:** Exposure by ingestion of an aerosol unlikely. Components of the product may be absorbed into the body.

#### 4. FIRST AID MEASURES

**Eye:** Immediately rinse with water for at least 15 mins. holding the eyelids open to be sure the material is washed out. Get medical attention if irritation persists.

**Skin:** Immediately take off contaminated clothing. Wash exposed area with soap and water. Get medical attention if irritation or symptoms of exposure develop. Launder clothing before re-use.

**Inhalation:** Remove victim to fresh air. Give artificial respiration if needed. If breathing is difficult, oxygen should be administered by qualified personnel. Get medical attention if symptoms persist.

**Ingestion:** Is unlikely route of exposure for an aerosol product. If ingestion occurs, rinse mouth with a small amount of water. Immediately call local poison control center or go to an emergency department. Never give anything by mouth to an unconscious or drowsy person.

#### 5. FIRE FIGHTING MEASURES

**Flash point:** N.A.

Non-flammable as described in 16CFR 1500.45

**Flammability (HOC):** 3.7946 kJ/g estimated

**Aerosol Flame Extension:** None

**Flashback:** None

**Extinguishing Media:** Use water spray, foam, carbon dioxide, or dry chemical.

**Special Fire Fighting Procedures:** Cool fire exposed containers with water to prevent vapor pressure build up.

**Unusual Fire Hazards:** Contents under pressure. Keep away from heat and open flames. Container may rupture or explode in the heat of a fire. Prolonged exposure to temperatures above 120°F/49°C may cause cans to burst. Vapor or gas may spread to distant ignition sources and flash back.

#### 6. ACCIDENTAL RELEASE MEASURES

**Spill:** Wear appropriate personal protective equipment. Eliminate all sources of ignition. Ventilate area. Stop the leak if you can do so without risk. Use non-combustible material like vermiculite, sand, or earth to soak up material and collect into a suitable container for disposal. Prevent entry into waterways, sewers, basements or other confined areas. Report spills and releases as required to appropriate authorities.

#### 7. HANDLING AND STORAGE

**Handling:** Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Avoid breathing vapors and mists. Use with adequate ventilation. Wash exposed skin thoroughly with soap and water after use. Keep away from heat, sparks and flame. Contents under pressure. Do not puncture or incinerate container. Do not use if spray button is missing or defective.

**Storage:** Level 1 Aerosol

Contents are under pressure. Do not puncture, incinerate or crush. Keep away from heat sparks, and flame. Store in a cool, well-ventilated area at temperatures below 120°F/49°C. Do not store in direct sunlight.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<u>Exposure Limits:</u>	<u>TWA (ACGIH)</u>	<u>TWA (OSHA)</u>
Ethanol	1000 ppm	1000 ppm
2-Butoxyethanol	20 ppm	50 ppm
Propane	1000 ppm	1000 ppm
n-Butane	1000 ppm	

**Ventilation:** General ventilation should be adequate for normal use. For operations where the occupational exposure limit may be exceeded, mechanical ventilation such as local exhaust may be needed to maintain exposure levels below applicable limits.

**Respiratory Protection:** None needed under normal use conditions. For operations where the occupational exposure limit may be exceeded use NIOSH mechanical filter/organic vapor respirator or supplied air respirator is recommended. Equipment selection depends on contaminant type and concentration, select in accordance with good industrial hygiene practice. For firefighting, use self-contained breathing apparatus.

**Skin Protection:** Impervious gloves are recommended for operations which may result in prolonged/ repeated skin contact.

**Eye Protection:** Wear chemical safety glasses or goggles to prevent eye contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance and Odor:** White foam the dissipates to a liquid, with a floral odor packaged in an aerosol container.

**Boiling Point:** N.A.

**Pressure:** 66 – 76 psig at 70°F/20°C

**pH Information:** 9.5 – 10.5

**Solubility:** Completely

**Vapor Density (Air=1):** Not Determined

**Specific Gravity:** 0.9572 estimated

**Form:** Aerosol

**Physical State:** Liquid

**Color:** Colorless

**Odor:** Butyl

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable at normal conditions.

**Conditions to Avoid:** Keep away from heat, sparks, flames and other sources of ignition.

**Hazardous Decomposition Products:** None known.

## 11. TOXICOLOGICAL INFORMATION

### **Potential Health Effects:**

**Eye:** May cause mild irritation.

**Skin:** Prolonged or repeated contact may cause mild irritation and defatting of the skin.

**Inhalation:** Breathing vapors or mists may cause irritation of the mucous membranes and upper respiratory tract. Excessive overexposure may cause headache, dizziness, drowsiness and depressed respiration and heart rate, heart rhythm irregularities, shortness of breath, unconsciousness or death.

**Ingestion:** Ingestion is a unlikely route of exposure for an aerosol product. May cause gastrointestinal irritation, nausea, vomiting, abdominal pain and diarrhea. Large amounts swallowed may cause central nervous system depression, noncardiogenic, pulmonary edema, metabolic acidosis, kidney and liver injury and coma.

**Chronic Hazards:** Prolonged overexposure to ethanol may cause liver damage. Prolonged overexposure to 2-Butoxyethanol may cause blood, liver, and kidney damage. 2-butoxyethanol has been shown to cause birth defects in laboratory animals.

**Carcinogenic Status:** None of the components of this product are listed as carcinogens by IARC or the EU Directive.

**Medical Conditions Aggravated by Exposure:** Persons with pre-existing skin, respiratory and cardiovascular disorders.

### **Acute Toxicity Values:**

Acute LD50: 5684 mg/kg estimated, Rat, Dermal

## 12. ECOLOGICAL INFORMATION

Components of this product have been identified as having potential environmental concerns.

96 hour LC50 in Fish: 28,957mg/L estimated

48 hour EC50 in Daphnia: 43,419 mg/L estimated

72 hour IC50 in Algae: 12,207 mg/L estimated

## 13. DISPOSAL CONSIDERATIONS

Content under pressure. Do not puncture, incinerate, or crush containers. Do not allow this material to drain into sewer/water supplies. When contents are depleted continue to depress button until all gas is expelled. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose in accordance with all local, regional, and national regulations.

#### 14. TRANSPORT INFORMATION

**DOT Proper Shipping Name:** Consumer Commodity  
**DOT Hazard Class:** ORM-D  
**Subsidiary hazard class:** None

**IMDG Shipping Description:** Aerosols  
**Hazard Class:** 2.1  
**UN Number:** UN1950

**IATA Shipping Description:** Aerosols, Flammable  
**Hazard Class:** 2.1  
**UN Number:** UN1950

#### 15. REGULATORY INFORMATION

##### **US Federal Regulations:**

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

**Occupational Safety and Health Administration (OSHA)**  
29 CFR 1910.1200 hazardous chemical: Yes

**CERCLA (Superfund) reportable quantity**  
None

##### **Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories:** Acute Health - Yes  
Chronic Health - Yes  
Fire Hazard - Yes  
Reactivity Hazard - Yes  
Pressure Hazard - No

**Section 302 extremely hazardous substance** No  
**Section 311 hazardous chemical** Yes

#### 16. OTHER INFORMATION

##### **NPCA-HMIS Ratings:**

Health - 1  
Flammability - 1  
Reactivity - 0

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