



## 1. CHEMICAL PRODUCT/COMPANY IDENTIFICATION

**Name:** MS-145W-4  
Release Agent for Hot Molds

**Product Use:** Release Agent for Hot Molds

### **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/eye irritation: Category 2A

### **Label elements:**

#### **Signal word**

Warning

### **Pictograms**



### **Hazard Statements**

Causes serious eye irritation.

### **Precautionary Statements**

Wash skin thoroughly after handling.

Wear protective gloves/eye protection/face protection.

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.

### **Other Hazards**

The thermal decomposition vapors of fluorinated polymers may cause polymer fume fever with flu-like symptoms in humans, especially when smoking contaminated tobacco.

### 3. INGREDIENTS

<u>Hazardous Ingredients</u>	<u>CAS No.</u>	<u>Approximate %</u>
Alcohols, C9-11, ethoxylated	68439-46-3	< 1.0

### 4. FIRST AID MEASURES

**Inhalation:** Remove patient to fresh air. Get medical attention if necessary.

**Eye:** Flush with large amounts of water for at least 15 minutes. Remove contact lenses, if present. Get medical attention.

**Skin:** Wash with water and soap as a precaution. Get medical attention if necessary.

**Oral:** If swallowed, DO NOT induce vomiting. Rinse mouth thoroughly with water. Never give anything to an unconscious person. Get medical attention if symptoms occur.

**Most important symptoms and effects, both acute and delayed:** Causes serious eye irritation.

### 5. FIRE FIGHTING MEASURES

**Flash Point:** Does not flash.

**Thermal decomposition:** 300°C (572°F)

**Suitable Extinguishing Media:** Water spray, Alcohol-resistant foam, Dry chemical, Carbon dioxide (CO<sub>2</sub>)

**Unsuitable extinguishing media:** None known

**Special hazards:** Exposure to combustion products may be hazardous to health.

**Hazardous combustion products:** Hydrogen fluoride, Carbonyl fluoride, Carbon oxides, potentially toxic fluorinated compounds, aerosolized particulates.

**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 cans with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

### 6. ACCIDENTAL RELEASE MEASURES

Evacuate personnel, ventilate area with fresh air, if a large amount is accidentally released, use self-contained breathing apparatus. Dike spill by containment or oil barriers. Prevent material from entering sewers, waterways or low areas. Soak up with inert absorbent materials (e.g. sand, silica gel, acid binder, universal binder, sawdust). Local and national regulations may apply to releases and disposal of this material, as well as the materials and items employed in the cleanup of releases. You need to determine which regulations are applicable.

## 7. HANDLING AND STORAGE

**Handling:** Avoid contact with skin, eyes or clothing. Avoid breathing vapors or spray mist. Wash thoroughly after handling. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material. The inhalation of smoke from contaminated tobacco products may cause polymer fume fever.

**Storage Conditions:** Do Not Freeze. Product is perishable if frozen.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Respiratory Protection:** Provide adequate ventilation to maintain vapor exposures below recommended limits. Wear suitable respiratory protection, when ventilation is insufficient. 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. Where there is potential for skin contact, have available and wear as appropriate, impervious gloves. Breakthrough time is not determined for the product. Change gloves as often as necessary.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Boiling Point:** 212°F/100°C

**Percent Volatile by Volume:** 96%

**Density:** 1.01 g/cc

**Vapor Pressure:** 24 mm Hg at 77°F/25°C

**Vapor Density (Air=1):** >1

**Solubility in H<sub>2</sub>O :** Insoluble

**pH Information:** 9 - 10

**Evaporation Rate (CC14=1):** N. A.

**Form:** Liquid

**Appearance:** Milky

**Color:** White

**Odor:** Faint Sweet Odor

## 10. STABILITY AND REACTIVITY

**Stability:** Stable under recommended storage conditions.

**Material and Conditions to Avoid:** Can react with strong oxidizing agents.  
Hazardous decomposition products will be formed at elevated temperatures.

**Decomposition:** This product decomposes at elevated temperatures (300°C/572°F) forming Hydrofluoric acid, Carbonyl difluoride, Carbon dioxide and Carbon monoxide.

**Polymerization:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

**Carcinogenicity:** None of the components in this product are listed as a carcinogen by IARC, NTP, OSHA, or ACGIH.

### Alcohols, C9-11, ethoxylated

**Acute dermal toxicity:** LD50: > 2,000 mg/kg, rat. Method: OECD Test Guideline 402.

**Acute oral toxicity:** LD50: > 300 – 2,000 mg/kg, rat. Based on data from similar materials.

**Skin corrosion/irritation:** No skin irritation, rabbit

**Serious eye damage/eye irritation:** Irreversible effects on the eye. Rabbit

**Respiratory or skin sensitization:** Not classified based on available information.

**Germ cell mutagenicity:** Not classified based on available information.

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

**Repeated dose toxicity:** NOAEL;  $\geq$  500mg/kg, rat, by ingestion for 90 days.

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

## 12. ECOLOGICAL INFORMATION

### Alcohols, C9-11, ethoxylated

96 hour LC50 Pimephales promelas (fathead minnow): 1 - 10 mg/l

48 hour EC50 Daphnia magna (Water flea) 1 - 10 mg/l

**Biodegradability:** Readily biodegradable.

**Bioaccumulation:** No data available

**Mobility in soil:** No data available

**Other adverse effects:** No data available

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal:** In accordance with local and national regulations.

**Environmental Hazards:** If recycling is not practicable, dispose of in compliance with local regulations.

## 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.

#### SARA/TITLE III HAZARD CATEGORIES:

##### Product Hazard Categories:

Acute Health	- Yes
Chronic Health	- Yes
Fire Hazard	- No
Reactivity Hazard	- No
Pressure Hazard	- No

## 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: DECEMBER 2018**

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.