



1. CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Name: ReleaSys™ 8220
Semi-Permanent Release Agent

Product Use: Water-based Release 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/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 Material(s)</u>	<u>CAS No.</u>	<u>Approximate %</u>
Alcohols, C9-11, ethoxylated	68439-46-3	1.0 – 5.0

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 and easy to do. Get medical attention.

Skin: Wash with soap and water. Get medical attention if necessary.

Oral: If swallowed, DO NOT induce vomiting unless directed to do so by a physician. Rinse mouth thoroughly with water. Never give anything to an unconscious person. Get medical attention.

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

Notes to physician: Treat symptomatically and supportively.

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 (CO₂)

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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Evacuate personnel, ventilate area with fresh air, if a large amount is accidental released, use self-contained breathing apparatus.

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. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

Spill Cleanup: 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. Take care to prevent spills, waste and minimize release to the environment.

Storage Conditions: Do Not Freeze. Recommended storage temperature is 10 – 27°C (50 - 80°F).

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: approx. 95 - 98%

Density: 1.01 g/cc

Vapor Pressure: 24 mm Hg at 77°F/25°C

Vapor Density (Air=1): >1

Solubility in H₂O: Dispersible

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

Acute Oral toxicity: LD50: > 300 - 2000 mg/kg, rat

Skin corrosion/irritation: No skin irritation, rabbit

Serious eye damage/eye irritation: Causes serious eye irritation. Irreversible effects on the eye, rabbit

Skin and Respiratory sensitization: Not classified based on available information.

Germ cell mutagenicity: Not classified based on available information.

Carcinogenicity: Not classified based on available information.

Reproductive toxicity: Not classified based on available information.

STOT-single exposure: Not classified based on available information.

STOT-repeated exposure: NOAEL; >= 500 mg/kg, rat, by ingestion for 90 days.

Aspiration toxicity: Not classified based on available information.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

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: FEBRUARY 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.