

1. CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Name: ReleaSys™ 82
Semi-Permanent Mold Release Agent

Product Use: Semi-Permanent Mold 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

Do not pierce or burn, even after use.

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.

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

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>Material (s)</u>	<u>CAS No.</u>	<u>Approximate %</u>
Alcohols, C9-11, ethoxylated	68439-46-3	< 1.0
Nitrogen	7727-37-9	< 0.5

4. FIRST AID MEASURES

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

Eye: Flush with large amounts of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if necessary.

Skin: Wash with water and soap as a precaution. Get medical attention if symptoms occur.

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.

Notes to physician: Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES

Flammability: This product is not flammable.

Test Method: Ignition distance test and Enclosed space ignition test

Extinguishing Media: This product does not burn. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards during firefighting: Containers may rupture under fire conditions. Decomposition products may be hazardous to health.

Hazardous combustion products: Hydrogen fluoride, carbonyl fluoride, potentially toxic fluorinated compounds, Carbon oxides.

Special Fire Fighting Instruction: Evacuate personnel to safe areas. Use water spray to cool containers. Wear suitable protective equipment. Wear self-contained breathing apparatus (SCBA) if a large amount of aerosols rupture under fire conditions.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Evacuate personnel. Ventilate area with fresh air. Use personal protective equipment. If a large amount of aerosols rupture and spill in confined areas, provide mechanical ventilation to disperse the vapors.

Environmental precautions: Dike spill. Prevent material from entering sewers, water ways or low areas. Local authorities should be advised if significant spillage cannot be contained.

Methods and materials for containment and cleaning up: Soak up with inert absorbent materials (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect as much of the spilled material as possible and place in a closed container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

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 or drink 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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: Provide adequate ventilation. 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 or other protective clothing.

Prevention of Swallowing: Do not eat, drink or smoke when using this product. Wash hands thoroughly after contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: N.A.

Percent Volatile by Volume: 97 - 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 ammonia

10. STABILITY AND REACTIVITY

Reactivity: Not classified as a reactivity hazard.

Chemical Stability: Stable under normal conditions.

Possibility of hazardous reactions: Hazardous decomposition products will be formed at elevated temperatures.

Material and Conditions to Avoid: Acids

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Carbonyl difluoride, Hydrogen fluoride.

11. TOXICOLOGICAL INFORMATION

Alcohols, C9-11, ethoxylated

Acute Dermal Toxicity: LD50: > 2,000 mg/kg, rat. Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal toxicity. Based on data from similar materials.

Acute Oral Toxicity: LD50: > 300 - 2000 mg/kg, rat. Based on data from similar materials.

Skin corrosion/irritation: No skin irritation, rabbit. Based on data from similar materials.

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

Based on data from similar materials.

Skin sensitization: Negative for skin contact (Buehler Test), guinea pig. Based on data from similar materials.

Respiratory sensitization: Not classified based on available information.

Mutagenicity: Genotoxicity in vitro: Negative. Bacterial reverse mutation assay (AMES). Based on data from similar materials.

Reproductive toxicity: Negative, rat. Two-generation reproduction toxicity study. Skin contact.

Repeated dose toxicity: NOAEL \geq 500 mg/kg, rat, 90 day by ingestion. Based on data from similar materials.

12. ECOLOGICAL INFORMATION

Alcohols, C9-11, ethoxylated

96 hour LC50 in fish: >1 - 10 mg/l. Based on data from similar materials.

48 hour EC50 in Daphnia magna (Water flea): >1.0 - 10 mg/l. Based on data from similar materials.

Biodegradability: Readily biodegradable.

Bioaccumulation: No data available

Mobility in soil: 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

Limited Quantity

IATA

Proper Shipping Name: Aerosols, Non-Flammable

Hazard Class: 2.2

Identification No. UN1950

Packing Group: None

IMDG

Proper Shipping Name: Aerosols, Non-Flammable

Hazard Class: 2.2

Identification No. UN1950

Packing Group: None

15. REGULATORY INFORMATION

U.S. Federal Regulations

TSCA: All ingredients are listed in TSCA inventory.

CERCLA Reportable Quantity: This material does not contain any components with a CERCLA RQ.

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 TPQ.

SARA 311/312 Hazards: No SARA Hazards

SARA 313 Regulated Chemicals: This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40CFR 372). They may not be intentionally present in the product; however, it is possible that it may be present as an impurity and the exact concentration may vary between lots:

Perfluorohexanoic acid, CAS No.: 307-24-4, < 24 ppb

Perfluorobutanoic acid, CAS No.: 375-22-4, < 1.7 ppb

3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctanesulphonic acid, CAS No.: 27619-97-2, <0.36 ppb

Hexafluoropropylene oxide dimer acid, CAS No., 13252-13-6, <0.3 ppb

U.S. State Regulations

California Prop. 65

WARNING: This product can expose you to chemicals including pentadecafluorooctanoic acid, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov. Note to User: This product is not made with PFOA nor is PFOA intentionally present in the product; however, it is possible that PFOA may be present as an impurity at background (environmental) levels.

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: January 27, 2025

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.