



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

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.

Pressurized container: Do not pierce or burn, even after use

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. Repeated episodes of polymer fume fever may result in persistent lung effects.

3. INGREDIENTS

<u>Material (s)</u>	<u>CAS No.</u>	<u>Approximate %</u>
Poly-Tetrafluoroethylene	9002-84-0	1 – 3
Polyethylene oxide mono-C9-11-alkyl ether	68439-46-3	< 0.5
Water	7732-18-5	90 – 98
Nitrogen	7727-37-9	< 0.5

4. FIRST AID MEASURES

Inhalation: Remove patient to fresh air. If not breathing, give artificial respiration. Give oxygen as necessary, if qualified personnel is available. 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 if necessary.

Skin: Wash with water for at least 15 minutes. Remove contaminated clothing. Wash contaminated clothing before reuse. Get medical attention if necessary.

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

5. FIRE FIGHTING MEASURES

Flammability: This product is not flammable.

Thermal decomposition: 300°C (572°F)

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

Specific Hazards: Containers may rupture under fire conditions. Decomposition may occur

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

6. ACCIDENTAL RELEASE MEASURES

Evacuate personnel, ventilate area with fresh air, if a large amount is accidental released, use self-contained breathing apparatus. Dike spill. 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).

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. Wear suitable respiratory protection, when ventilation is insufficient.

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, apron, pants and jacket.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: N.A.

Percent Volatile by Volume: 98%

Density: 1.01 g/cc

Vapor Pressure: 24 mm Hg at 77°F/25°C

Vapor Density (Air=1): >1

Solubility in H₂O : 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: Decomposition temperature 300°C /572°F. Incompatible with alkali metals, alkaline earth metals, strong oxidizers, molecular sieves.

Decomposition: This product decomposes with heat (300°C/572°F) forming fluorinated compounds and carbon oxides.

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.

Polytetrafluoroethylene

Oral: LD50: > 11,280 mg/kg, rat

Skin corrosion/irritation: No skin irritation, rabbit

Skin sensitization: Does not cause skin sensitization, human

Repeated dose toxicity: Oral - feed, rat: No toxicologically significant effects were found

Polyethylene oxide mono-C9-11-alkyl ether

Dermal: LD50: 5,000 mg/kg, rat

Oral: LD50: 1,400 mg/kg, rat

Skin corrosion/irritation: Severe skin irritation, rabbit

Serious eye damage/eye irritation: Risk of serious damage to eyes. Corrosive.

Mutagenicity: Did not cause genetic damage in cultured bacterial cells.

Reproductive toxicity: Evidence suggests the substance is not a reproductive toxin in animals.

Repeated dose toxicity: Dermal, rat: Skin effects, Thickening of skin

12. ECOLOGICAL INFORMATION

Aquatic Toxicity:

Polytetrafluoroethylene

The substance is a polymer and is not expected to produce toxic effects.

Polyethylene oxide mono-C9-11-alkyl ether

96 hour LC50 Pimephales promelas (fathead minnow): 6.0 - 12.0 mg/l

48 hour EC50 Daphnia magna (Water flea) 2.9 - 8.5 mg/l

Environmental Fate:

Polyethylene oxide mono-C9-11-alkyl ether

Biodegradability: Readily biodegradable.

Bioaccumulation: No data available

Mobility in soil: No data available

Other adverse effects: No data is available on the product itself.

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

Proper Shipping Name: Consumer Commodity

Hazard Class: ORM-D

Identification No. None

Packing Group: None

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.

SARA/TITLE III HAZARD CATEGORIES:

Product Hazard Categories:

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

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: AUGUST 2016

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.