



DryFilm RA

Version 3.0

Revision Date 11/06/2015

Ref. 130000008600

This SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	DryFilm RA
Product Use	:	Dry lubricant, For industrial use only.
Restrictions on use	:	Do not use product for anything outside of the above specified uses
Manufacturer/Supplier	:	The Chemours Company FC, LLC 1007 Market Street Wilmington, DE 19899 United States of America
Product Information	:	1-844-773-CHEM (outside the U.S. 1-302-773-1000)
Medical Emergency	:	1-866-595-1473 (outside the U.S. 1-302-773-2000)
Transport Emergency	:	CHEMTREC: +1-800-424-9300 (outside the U.S. +1-703-527-3887)

SECTION 2. HAZARDS IDENTIFICATION

Not classified as a hazardous substance or mixture according to the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard 2012.

Other hazards

Vapours are heavier than air and can cause suffocation by reducing oxygen available for breathing., May cause cardiac arrhythmia., The thermal decomposition vapours of fluorinated plastics 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.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS



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This product does not contain any components that require disclosure according to OSHA Hazard Communication Standard 2012.

SECTION 4. FIRST AID MEASURES

General advice	: When symptoms persist or in all cases of doubt seek medical advice.
Inhalation	: Immediately move to fresh air. Oxygen or artificial respiration if needed. Consult a physician.
Skin contact	: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing before re-use. Consult a physician if necessary.
Eye contact	: Immediately flush eye(s) with plenty of water. If eye irritation persists, consult a specialist.
Ingestion	: Do NOT induce vomiting. If a person vomits when lying on his back, place him in the recovery position. Never give anything by mouth to an unconscious person.
Most important symptoms/effects, acute and delayed	: No applicable data available.
Protection of first-aiders	: First Aid responders should pay attention to self-protection and use the recommended protective clothing
Notes to physician	: No applicable data available.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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- Unsuitable extinguishing media : No applicable data available.
- Specific hazards : The product is not flammable. In fire conditions, toxic decomposition products may be formed. (see also section 10)
- Special protective equipment for firefighters : Wear self-contained breathing apparatus (SCBA). Wear suitable protective equipment.
- Further information : Evacuate personnel to safe areas.

SECTION 6. ACCIDENTAL RELEASE MEASURES

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

- Safeguards (Personnel) : Evacuate personnel to safe areas. Ventilate spill area. Wear self-contained breathing apparatus and protective suit.
- Environmental precautions : Prevent material from entering sewers, waterways, or low areas.
- Spill Cleanup : Dike spill. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
- Accidental Release Measures : No applicable data available.

SECTION 7. HANDLING AND STORAGE

- Handling (Personnel) : Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling. Remove and wash contaminated clothing before re-use. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.
- Handling (Physical Aspects) : No applicable data available.
- Dust explosion class : No applicable data available.



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- Storage : Freezing will affect the physical condition but will not damage the material. Thaw and mix before using.
- Storage period : No applicable data available.
- Storage temperature : < 52 °C (< 126 °F)

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering controls : Ensure adequate ventilation, especially in confined areas. Use sufficient ventilation to keep employee exposure below recommended limits.
- Personal protective equipment
- Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
- Hand protection : Material: Impervious gloves
- Eye protection : Wear safety glasses or coverall chemical splash goggles.
- Skin and body protection : Preventive skin protection
Where there is potential for skin contact, have available and wear as appropriate, impervious gloves, apron, pants, jacket, hood and boots.
- Protective measures : No special protective equipment required.
- Exposure Guidelines
- Exposure Limit Values
- Contains no substances with occupational exposure limit values.

This product does not contain any exposure limits that require disclosure according to OSHA Hazard Communication Standard 2012.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

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Physical state	: liquid
Form	: viscous liquid
Color	: white
Odor	: No applicable data available.
Odor threshold	: No applicable data available.
pH	: 4 - 6
Melting point/range	: No applicable data available.
Boiling point/boiling range	: Boiling point/boiling range 55.0 °C (131.0 °F)
Flash point	: Method: Tag closed cup - TCC does not flash
Evaporation rate	: No applicable data available.
Flammability (solid, gas)	: No applicable data available.
Upper explosion limit	: No applicable data available.
Lower explosion limit	: No applicable data available.
Vapor pressure	: 226 mm Hg
Vapour density	: No applicable data available.
Specific gravity (Relative density)	: 1.63
Water solubility	: insoluble
Solubility(ies)	: No applicable data available.
Partition coefficient: n-octanol/water	: No applicable data available.

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Auto-ignition temperature	:	No applicable data available.
Ignition temperature	:	no data available
Decomposition temperature	:	300 °C
Viscosity, kinematic	:	No applicable data available.
Viscosity, dynamic	:	No applicable data available.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No applicable data available.
Chemical stability	:	Stable under recommended storage conditions.
Possibility of hazardous reactions	:	No applicable data available.
Conditions to avoid	:	The product is not flammable in air under ambient conditions of temperature and pressure. When pressurised with air or oxygen, the mixture may become flammable. Certain mixtures of HCFCs or HFCs with chlorine may become flammable or reactive under certain conditions.
Incompatible materials	:	Alkali metals Alkaline earth metals, Powdered metals, Powdered metal salts, Strong bases
Hazardous decomposition products	:	Hazardous decomposition products formed under fire conditions.: Fluorinated hydrocarbons, Hydrogen fluoride, Carbon dioxide (CO ₂), Carbon monoxide

SECTION 11. TOXICOLOGICAL INFORMATION

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Further information : Inhalation of decomposition products in high concentration may cause shortness of breath (lung oedema).

Carcinogenicity

The carcinogenicity classifications for this product and/or its ingredients have been determined according to HazCom 2012, Appendix A.6. The classifications may differ from those listed in the National Toxicology



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Program (NTP) Report on Carcinogens (latest edition) or those found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition).

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

SECTION 12. ECOLOGICAL INFORMATION

Biodegradability : Not readily biodegradable.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal methods - Product : In accordance with local and national regulations. If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging : No applicable data available.

SECTION 14. TRANSPORT INFORMATION

Not regulated as a hazardous material by DOT.

SECTION 15. REGULATORY INFORMATION

TSCA : On the inventory, or in compliance with the inventory 1,1,1,2,2,3,4,5,5,5-DECAFLUOROPENTANE (CAS# 138495-42-8) is controlled by TSCA Section 5, Significant New Use Rule (SNUR; 40 CFR 721.5645) The approved uses are: precision and general cleaning, carrier fluid, displacement drying,



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printed circuit board cleaning, particulate removal and film cleaning, process medium, heat transfer fluid (dielectric and non-dielectric), and test fluid. Processors and users of this substance must also comply with the applicable general SNUR requirements set forth in 40 CFR 721 subpart A, including export notification requirements if applicable (40 CFR 721.20), and the applicable record keeping requirements set forth at 40 CFR 721.125.

Title III hazard classification : Acute Health Hazard: Yes
Chronic Health Hazard: No
Fire: No
Reactivity/Physical hazard: No
Pressure: No

SECTION 16. OTHER INFORMATION

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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.

Significant change from previous version is denoted with a double bar.