

Safety Data Sheet

FC26-09

1,1,1,2,4,5,5,5-Octafluoro-2-(Heptafluoropropoxy)-4-(Trifluoromethyl)-3-Pentanone

Revised 16-November-2016

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name 1,1,1,2,4,5,5,5-Octafluoro-2-(heptafluoropropoxy)-4-(trifluoromethyl)-3-pentanone

Catalog NumberFC26-09BrandFluoryx LabsCAS no.851535-00-7

Relevant identified uses of the Substance or mixture and uses advised against

Identified uses: Low GWP solvent/heat transfer agent.

Details of the supplier of the safety data sheet

Company Fluoryx Labs

3650 Research Way, #22 Carson City, NV 89706

USA

+1 (510) 329-9149 (Telephone) +1 (510) 686-8799 (Fax)

www.fluoryx.com

Emergency call: +01-813-248-0585 (International)

+1-800-255-3924 (USA)

2. HAZARDS INFORMATION

Emergency Overview

OSHA Hazards No known OSHA hazards

GHS Classification Not a dangerous substance according to GHS

GHS Label elements, including precautionary statements

Pictogram None
Signal word None

Hazard statement(s) None

Precautionary statement(s) None

Potential Health Effects

Inhalation May be harmful if inhaled. May cause respiratory

tract irritation.

Skin May be harmful if absorbed through skin. May cause

skin irritation.

EyesMay cause eye irritation. **Ingestion**May be harmful if swallowed.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Synonyms 3-Pentanone, 1,1,1,2,4,5,5,5-Octafluoro-2-(heptafluoropropoxy)-4-(trifluoromethyl)-

Molecular Weight

 $CF_3CF_2CF_2OCF(CF_3)C(O)CF(CF_3)_2$

EC#

TSCA

CAS#

Components

Material

1,1,1,2,4,5,5,5-Octafluoro-2-(h eptafluoropropoxy)-4-(trifluoro methyl)-3-pentanone	482.07	851535-00-7	None	Not listed
4. FIRST AID MEASURES				
If inhaled		If breathed in, move person into fresh air. If not breathing, give artificial respiration.		
In case of skin contact		Wash off with soap and plenty of water.		
In case of eye contact		Flush eyes with water as a precaution.		
If swallowed		Never give anything by mouth to an unconscious person. Rinse mouth with water.		
5. FIREFIGHTING MEASURES				
Suitable extinguishing media		Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.		
Special protective equipment for firefighters		Wear self-contained breathing apparatus for fire fighting.		
Hazardous combustion products		Hazardous decomposition products formed under fire conditions - carbon oxides, hydrogen fluoride.		
6. ACCIDENTAL RELEASE MEASU	IRES			
Personal precautions		Avoid inhalation of vapor, mist, dust, or gas.		
Environmental precautions		Do not let product enter drains. Discharge into the environment must be avoided.		
Methods for cleaning up		Soak up with inert a as hazardous waste containers for dispos	. Keep in suita	
7. HANDLING AND STORAGE				
Precautions for Safe Handling		Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Normal measures for preventive fire protection.		
Conditions for Safe Storage		Keep container tightly closed in a dry and well-ventilated place.		
8. EXPOSURE CONTROLS AND PERSONAL PROTECTION				

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection Respiratory protection not required. For nuisance

exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN

(EU).

Handle with gloves. Gloves must be inspected prior

to use. Use proper glove removal technique (without

touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protectionUse equipment for eye protection tested and

approved under appropriate government standards

such as NIOSH (US) or EN 166(EU).

Skin and body protection Impervious clothing, the type of protective equipment

must be selected according to the concentration and amount of the dangerous substance at the specific

workplace.

Hygiene measuresGeneral industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form Liquid Color Colorless

Safety Data

Ha No data available No data available Melting Point/Freezing Point 112 °C @ 760 mm Hg **Boiling Point** Flash Point > 112 °C (closed cup) **Ignition Temperature** No data available **Auto-ignition Temperature** No data available Lower Explosion Limit No data available No data available Upper Explosion Limit Thermal Decomposition Temperature No data available Vapor Pressure No data available 1.7024 g/mL @ 28 °C Density Water Solubility 55.4 ppm @ 20 °C Partition Coefficient (n-octanol/water) No data available

Relative Vapor Density (Air = 1) > 1
Odor None

Odor Threshold No data available
Evaporation Rate No data available
Viscosity 4 mPa·m @ 30°C

10. STABILITY AND REACTIVITY

Storage stability Stable under recommended storage conditions.

Possibility of hazardous reactions Polymerization will not occur.

Conditions to avoid Keep away from open flames and heated surfaces

above 200 °C (392 °F).

Materials to avoid Strong oxidizing agents.

Hazardous decomposition products

Hazardous decomposition products formed under

fire conditions - carbon oxides, hydrogen fluoride,

carbonyl fluoride.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral LD50
Inhalation LC50
Dermal LD50
Other information on acute toxicity

No data available
No data available
No data available

Skin corrosion/irritationNo data available.Serious eye damage/eye irritationNo data available.Respiratory or skin sensitizationNo data available.Germ cell mutagenicityNo data available.

Carcinogenicity IARC: No component of this product present at

levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen

by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a

known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity No data available

Specific target organ toxicity (Globally Harmonized System)

Single exposure
Repeated exposure
No data available
No data available
No data available

Potential Health Effects

Inhalation May be harmful if inhaled. May cause respiratory

tract irritation.

Skin May be harmful if absorbed through skin. May cause

skin irritation.

EyesMay cause eyes irritation.IngestionMay be harmful if swallowed.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical,

and toxicological properties have not been

thoroughly investigated.

Synergistic Effects

No data available

Additional Information

No data available

12. ECOLOGICAL INFORMATION

Toxicity No data available

Persistence and Degradability Does not readily degrade.

Bioaccumulative PotentialNo data availableMobility in SoilNo data availablePBT and vPvB AssessmentNo data available

Other adverse effects	No data available	
13. DISPOSAL CONSIDERATIONS		
Product	Offer non-recyclable solutions to a licensed disposal company. Contact Fluoryx to return unused product.	
Contaminated packaging	Dispose of as unused product.	
14. TRANSPORTATION INFORMATION		
DOT (US)	Not dangerous goods	
IMDG	Not dangerous goods	
IATA	Not dangerous goods	
15. REGULATORY INFORMATION		
OSHA Hazards	No known OSHA hazards.	
TSCA Status	Not listed.	
DSL Status	This product does not contain components listed on the Canadian NDSL list.	
SARA 302 Components	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.	
SARA 313 Components	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.	
SARA 311/312 Hazards	No SARA hazards.	
Massachusetts Right To Know Components	No components are subject to the Massachusetts Right to Know Act.	
Pennsylvania Right To Know Components	No components are subject to the Pennsylvania Right to Know Act.	
New Jersey Right To Know Components	No components are subject to the New Jersey Right to Know Act.	
California Prop. 65 Components	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.	
16. OTHER INFORMATION		
HMIS Classification Health Hazard: Flammability: Physical hazards:	0 0 0	
NFPA Rating Health Hazard: Fire: Reactivity Hazard:	0 0 0	
Further information:	Not for drug, household, or other uses. The previous information is based upon our current knowledge and experience of our product and is not exhaustive. It applies to the product as defined by the specifications. In case of combinations or mixtures, one must confirm that no new hazards are likely to exist. In any case, the user is not exempt from	

observing all legal, administrative and regulatory procedures relating to the product, personal hygiene, and integrity of the work environment. Unless noted to the contrary, the technical information applies only to pure product.

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End of SDS