

SAFETY DATA SHEET

Creation Date 16-Nov-2010

Revision Date 19-Jan-2018

Revision Number 4

1. Identification

1,1,1,3,3,3-Hexafluoroacetone sesquihydrate

Product Name

AC269970000; AC269970250

CAS-No Synonyms

Cat No. :

13098-39-0 No information available

Recommended Use Uses advised against Laboratory chemicals. Not for food, drug, pesticide or biocidal product use

Details of the supplier of the safety data sheet

<u>Company</u> Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Acros Organics One Reagent Lane Fair Lawn, NJ 07410

Emergency Telephone Number

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity	Category 3
Acute dermal toxicity	Category 2
Acute Inhalation Toxicity - Vapors	Category 3
Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 1
Reproductive Toxicity	Category 2

Label Elements

Signal Word Danger

Hazard Statements

Toxic if swallowed Fatal in contact with skin Toxic if inhaled Causes serious eye damage Causes skin irritation Suspected of damaging fertility. Suspected of damaging the unborn child



Precautionary Statements Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not get in eyes, on skin, or on clothing

Response

IF exposed or concerned: Get medical attention/advice Skin

Immediately call a POISON CENTER or doctor/physician IF ON SKIN: Gently wash with plenty of soap and water Remove/Take off immediately all contaminated clothing

Wash contaminated clothing before reuse

If skin irritation occurs: Get medical advice/attention

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

Storage

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Component	CAS-No	Weight %
2-Propanone, 1,1,1,3,3,3-hexafluoro-,	13098-39-0	>95
sesquihydrate		

	4. First-aid measures	
General Advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.	
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.	
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.	
Inhalation	If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Move to fresh air. Immediate	

	medical attention is required.	
Ingestion	Do not induce vomiting. Call a physician or Poison Control Center immediately.	
Most important symptoms and effects	Causes burns by all exposure routes Causes eye burns. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation	
Notes to Physician	Treat symptomatically	
	5. Fire-fighting measures	
Suitable Extinguishing Media	5. Fire-fighting measures Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.	
Suitable Extinguishing Media Unsuitable Extinguishing Media		
	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.	

Autoignition Temperature	No information available
Explosion Limits	
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin and mucous membranes.

Hazardous Combustion Products

Carbon monoxide (CO) Carbon dioxide (CO2) Gaseous hydrogen fluoride (HF)

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

<u>NFPA</u> Health 3	Flammability 1	Instability 1	Physical hazards N/A
	6. Accidental re	ease measures	
Personal Precautions Environmental Precautions	safe areas. Keep people a	uipment. Ensure adequate ven way from and upwind of spill/lea o the environment. See Section	ak.

Methods for Containment and Clean Keep in suitable, closed containers for disposal. Soak up with inert absorbent material. Up

	7. Handling and storage		
Handling	Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe vapors or spray mist. Do not ingest.		
Storage Keep containers tightly closed in a dry, cool and well-ventilated place.			
	8. Exposure controls / personal protection		
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.		

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Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.
Personal Protective Equipment	
Eye/face Protection	Tightly fitting safety goggles. Face-shield.
Skin and body protection	Long sleeved clothing.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties			
Physical State	sical State Liquid		
Appearance	Off-white		
Odor	No information available		
Odor Threshold	No information available		
рН	1-2		
Melting Point/Range	18 - 21 °C / 64.4 - 69.8 °F		
Boiling Point/Range	No information available		
Flash Point	No information available		
Evaporation Rate	No information available		
Flammability (solid,gas)	Not applicable		
Flammability or explosive limits			
Upper	No data available		
Lower	No data available		
Vapor Pressure	202 hPa @ 30°C		
Vapor Density	No information available		
Specific Gravity	1.690		
Solubility	Soluble in water		
Partition coefficient; n-octanol/water	No data available		
Autoignition Temperature	No information available		
Decomposition Temperature	No information available		
Viscosity	0.67 mPa.s at 38 °C		
Molecular Formula	C3 F6 O . 1.5 H2 O		
Molecular Weight	193.05		

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Moisture sensitive.
Conditions to Avoid	Incompatible products. Excess heat. Exposure to moist air or water.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Product	s Carbon monoxide (CO), Carbon dioxide (CO ₂), Gaseous hydrogen fluoride (HF)
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Mobility

Product Information

Component Information						
Component		LD50 Oral		LD50 Dermal	1 C 50	Inhalation
2-Propanon		LD50 Oral LD50 Dermal LC50 Inhalation Not listed LD50 = 670 mg/kg (Rat) Not listed				
	1,1,1,3,3,3-hexafluoro-,		2000			
sesquihydra						
Toxicologically Syn	ergistic	No information available				
Products	0					
Delayed and immed	liate effects a	as well as chronic effe	cts from short ar	d long-term expo	sure_	
Irritation		Causes eye burns	Irritating to skin			
Sensitization		No information ava	ailable			
Carcinogenicity		The table below in	dicates whether ea	ach agency has lis	ted any ingredient	as a carcinogen.
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
2-Propanone, 1,1,1,3,3,3-hexafluoro- , sesquihydrate	13098-39-		Not listed	Not listed	Not listed	Not listed
Mutagenic Effects						
Reproductive Effect	ts	Possible risk of im	paired fertility. Pos	sible risk of harm	to the unborn child	
Developmental Effects No information available.						
Teratogenicity No information available.						
• •	OT - single exposureNone knownOT - repeated exposureNone known					
Aspiration hazard No information available						
Symptoms / effects delayed	s,both acute a	Possible perforation	d Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation			
Endocrine Disrupto	Indocrine Disruptor Information No information available					
Other Adverse Effe	Adverse Effects The toxicological properties have not been fully investigated. See actual entry in RTECS complete information.			entry in RTECS for		
		12. Ecol	ogical infor	mation		
Ecotoxicity Do not empty into dra	ains.					
Persistence and De	gradability	Soluble in water P	ersistence is unlike	ely based on inforr	nation available.	
Bioaccumulation/ A	ccumulation	No information ava	ailable.			

Will likely be mobile in the environment due to its water solubility.

Component	log Pow
2-Propanone, 1,1,1,3,3,3-hexafluoro-, sesquihydrate	1.46

13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

	14. Transport information
DOT	
UN-No	UN2552
Proper Shipping Name	HEXAFLUOROACETONE HYDRATE, LIQUID
Hazard Class	6.1
Packing Group	II
TDG	
UN-No	UN2552
Proper Shipping Name	HEXAFLUOROACETONE HYDRATE, LIQUID
Hazard Class	6.1
Packing Group	II
IATA	
UN-No	UN2552
Proper Shipping Name	HEXAFLUOROACETONE HYDRATE, LIQUID
Hazard Class	6.1
Packing Group	11
IMDG/IMO	
UN-No	UN2552
Proper Shipping Name	HEXAFLUOROACETONE HYDRATE, LIQUID
Hazard Class	6.1
Packing Group	II.
- •	15. Regulatory information

All of the components in the product are on the following Inventory lists: X = listed

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
2-Propanone,	-	-	-	-	-		-	-	Х	Х	-
1,1,1,3,3,3-hexafluoro-,											
sesquihydrate											

- Legend:
- X Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)	Not applicable
SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable

Clean Air Act Not applicable OSHA Occupational Safety and Health Administration Not applicable CERCLA Not applicable

 California Proposition 65
 This product does not contain any Proposition 65 chemicals

Not applicable

U.S. State Right-to-Know	
Regulations	

U.S. Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade	No information available	
	16. Other information	
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com	
Creation Date Revision Date Print Date Revision Summary	16-Nov-2010 19-Jan-2018 19-Jan-2018 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).	

Disclaimer

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

End of SDS