SAFETY DATA SHEETS

According to Globally Harmonized System of Classification and Labelling of Chemicals (GHS) - Sixth revised edition

Version: 1.0

Creation Date: Aug 13, 2017

Revision Date: Aug 13, 2017

1.	Identification		
1.1	GHS Product identifier		
	Product name	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl 2-methylprop-2-enoate	
1.2	Other means of identification		
	Product number Other names	- 1h,1h,2h,2h-perfluorodecyl methacrylate	
1.3	8 Recommended use of the chemical and restrictions on use		
	Identified uses Uses advised against	For industry use only. no data available	
2.	Hazard identification		
2.1	Classification of the substance or mixture		
	Skin corrosion, Category 1B Skin sensitization, Category 1 Serious eye damage, Category 1 Respiratory sensitization, Category 1		
2.2	GHS label elements, including precautionary statements		

Pictogram(s)



Signal word	Danger	
Hazard statement(s)	H314 Causes severe skin burns and eye damage	
	H317 May cause an allergic skin reaction	
	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled	
Precautionary statement(s)		
Prevention	P260 Do not breathe dust/fume/gas/mist/vapours/spray.	
	P264 Wash thoroughly after handling.	
	P280 Wear protective gloves/protective clothing/eye protection/face protection.	
	P261 Avoid breathing dust/fume/gas/mist/vapours/spray.	
	P272 Contaminated work clothing should not be allowed out of the workplace.	
	P284 [In case of inadequate ventilation] wear respiratory protection.	
Response	P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.	
	P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].	
	P363 Wash contaminated clothing before reuse.	
	P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
	P310 Immediately call a POISON CENTER/doctor/…	

	P321 Specific treatment (see on this label).
	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P302+P352 IF ON SKIN: Wash with plenty of water/
	P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
	P362+P364 Take off contaminated clothing and wash it before reuse.
	P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor/
Storage	P405 Store locked up.
Disposal	P501 Dispose of contents/container to

- 2.3 Other hazards which do not result in classification
 - none
- 3. Composition/information on ingredients
- 3.1 Substances

Chemical name	Common names and synonyms	CAS number	EC number	Concen
3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl 2- methylprop-2-enoate	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl 2- methylprop-2-enoate		none	100

4. First-aid measures

4.1 Description of necessary first-aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial

respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms/effects, acute and delayed

no data available

4.3 Indication of immediate medical attention and special treatment needed, if necessary

no data available

- 5. Fire-fighting measures
- 5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Specific hazards arising from the chemical

no data available

5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

- 6. Accidental release measures
- 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing

vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use.Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

8. Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure limit values

no data available

Biological limit values

no data available

8.2 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. 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. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Respiratory protection

Wear dust mask when handling large quantities.

Thermal hazards

no data available

9. Physical and chemical properties

Physical state	no data available
Colour	no data available
Odour	no data available
Melting point/ freezing	no uata avaliable
point	
Boiling point or initial	110°C/4mmHg(lit.)
boiling point and	
boiling range	
Flammability	no data available
Lower and upper	no data available
explosion limit /	
flammability limit	
Flash point	113°C
Auto-ignition	no data available
temperature	
Decomposition	no data available
temperature	

pHno data availableKinematic viscosityno data availableSolubilityno data availablePartition coefficient n-
octanol/water (log
value)no data availableVapour pressure0.0199mmHg at 25°CDensity and/or relative1.596g/mLat 25°C(lit.)densityRelative vapour density no data availableParticle characteristicsno data available

- 10. Stability and reactivity
- 10.1 Reactivity

no data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

no data available

10.5 Incompatible materials

no data available

10.6 Hazardous decomposition products

no data available

11. Toxicological information

Acute toxicity

- · Oral: no data available
- · Inhalation: no data available
- · Dermal: no data available

Skin corrosion/irritation no data available Serious eye damage/irritation no data available Respiratory or skin sensitization no data available Germ cell mutagenicity no data available Carcinogenicity no data available **Reproductive toxicity** no data available STOT-single exposure no data available STOT-repeated exposure no data available Aspiration hazard no data available

12. Ecological information

12.1 Toxicity

- · Toxicity to fish: no data available
- · Toxicity to daphnia and other aquatic invertebrates: no data available
- Toxicity to algae: no data available
- · Toxicity to microorganisms: no data available

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Other adverse effects

no data available

13. Disposal considerations

13.1 Disposal methods

Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

14. Transport information

14.1 UN Number

ADR/RID: Not dangerousIMDG: Not dangerousIATA: Not dangerousgoods.goods.goods.

14.2 UN Proper Shipping Name

ADR/RID: unknown IMDG: unknown IATA: unknown

14.3 Transport hazard class(es)

ADR/RID: Not dangerous IMDG: Not dangerous IATA: Not dangerous

	goods.	goods.	goods.
14.4	Packing group, if applic	able	
	ADR/RID: Not dangerous goods.	IMDG: Not dangerous goods.	IATA: Not dangerous goods.
14.5	Environmental hazards		
	ADR/RID: no	IMDG: no	IATA: no
14.6	Special precautions for user		
	no data available		
14.7	Transport in bulk accor Code	ding to Annex II of MAR	POL 73/78 and the IBC

no data available

- 15. Regulatory information
- 15.1 Safety, health and environmental regulations specific for the product in question

Chemical name	Common names and synonyms	CAS	EC
		number	number
3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl 2- methylprop-2-enoate	3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl 2- methylprop-2-enoate	1996- 88-9	none
European Inventory of Existing Co	mmercial Chemical Substances (EII	NECS)	Listed.
EC Inventory			Listed.
United States Toxic Substances Control Act (TSCA) Inventory			Listed.
China Catalog of Hazardous chemicals 2015			Not
			Listed.
New Zealand Inventory of Chemicals (NZIoC)			Not
			Listed.
Philippines Inventory of Chemicals and Chemical Substances (PICCS)			
			Listed.
Vietnam National Chemical Inventory			Not
			Listed.
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)			Not
			Listed.

16. Other information

Information on revision

Creation Date	Aug 13, 2017
Revision Date	Aug 13, 2017

Abbreviations and acronyms

- · CAS: Chemical Abstracts Service
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- RID: Regulation concerning the International Carriage of Dangerous Goods by Rail
- · IMDG: International Maritime Dangerous Goods
- · IATA: International Air Transportation Association
- TWA: Time Weighted Average
- · STEL: Short term exposure limit
- LC50: Lethal Concentration 50%
- · LD50: Lethal Dose 50%
- EC50: Effective Concentration 50%

References

- IPCS The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home
- HSDB Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm
- IARC International Agency for Research on Cancer, website: http://www.iarc.fr/
- eChemPortal The Global Portal to Information on Chemical Substances by OECD, website:
 - http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en
- CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple
- ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp
- · ERG Emergency Response Guidebook by U.S. Department of

Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg

- Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp
- ECHA European Chemicals Agency, website: https://echa.europa.eu/

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. We as supplier shall not be held liable for any damage resulting from handling or from contact with the above product.