

Safety Data Sheet per OSHA HazCom 2012



Product name: 1,1,1,3,3,3-Hexafluoroisopropyl methacrylate

	(Contd. of page 1)
4 First-aid measures	(contai of page 1)
2 Prist-and measures Description of first aid measures	
After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm.	
Seek immediate medical advice.	
After skin contact Immediately wash with water and soap and rinse thoroughly.	
Seek immédiate medical advice. After eve contact Rinse opened eve for several minutes under running water. Then consult a doctor	
After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment. Information for doctor	
Most important symptoms and effects, both acute and delayed No further relevant information available.	
Indication of any immediate medical attention and special treatment needed No further relevant information available.	
5 Fire-fighting measures	
Extinguishing media Suitable extinguishing agents In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.	
For safety reasons unsuitable extinguishing agents Water	
Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released:	
Carbon monoxide and carbon dióxide Hydrogen fluoride (HF) Advice for firefighters	
Advice for firefighters Protective equipment:	
Wear self-contained respirator. Wear fully protective impervious suit.	
6 Accidental release measures Personal precautions, protective equipment and emergency procedures	
Wear protective equipment. Keep unprotected persons away.	
Ensure adequate vehillation Keep away from ignition sources Environmental propertience. Do not ellow metorial to be released to the environment without proper governmental permits	
Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up:	
Keep away from ignition sources. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents	
Prevention of secondary hazards: Keep away from ignition sources. Reference to other sections	
See Section 7 for information on safe handling	
See Section 8 for information on personal protection equipment. See Section 13 for disposal information.	
7 Handling and storage	
Handling	
Precautions for safe handling Keep container tightly sealed.	
Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace.	
Information about protection against explosions and fires: Protect against electrostatic charges.	
Fumes can combine with air to form an explosive mixture.	
Keep ignition sources away. Conditions for safe storage, including any incompatibilities	
Storage Requirements to be met by storerooms and receptacles: Store in a cool location.	
Information about storage in one common storage facility: Store away from oxidizing agents.	
Further information about storage conditions: Keep container tightly sealed.	
Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Specific end use(s) No further relevant information available.	
8 Exposure controls/personal protection	
Additional information about design of technical systems:	
Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.	
Control parameters Components with limit values that require monitoring at the workplace: Not required. Additional information: No data	
Additional information: No data Exposure controls	
Personal protective equipment	
General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed.	
Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately.	
Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.	
Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present.	
Protection of hands:	
Impervious gloves Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.	
Eye protection. Salety glasses	
Body protection: Protective work clothing.	USA
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9 Physical and chemical propertie	S		
Information on basic physical and cl General Information Appearance:	hemical properties		
Form: _Color:	Liquid Colorless		
Odor: Odor threshold:	Not determined Not determined.		
pH-value:	Not determined.		
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined Not determined Not determined		
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	14 °C (57 °F) Not determined. Not determined Not determined		
Auto igniting: Danger of explosion: Explosion limits:	Not determined. Product is not explosive. However, formation of explosive air/vapor mixtures is possible.		
Lower: Upper: Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density	Not determined Not determined Not determined 1.302 g/cm³ (10.865 lbs/gal) Not determined. Not determined.		
Evaporation rate Solubility in / Miscibility with Water:	Not determined. Not determined		
Partition coefficient (n-octanol/water Viscosity:			
dynamic: kinematic: Other information	Not determined. Not determined. No further relevant information available.		
Possibility of hazardous reactions N Conditions to avoid No further relevan Incompatible materials: Oxidizing age Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen fluoride	ents		
Reproductive foxicity: No effects know Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effe	skin irritation. erious eye irritation. nown. nown. a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. wn. / - repeated exposure: No effects known. / - single exposure: May cause respiratory irritation.		
12 Ecological information Toxicity			
Aquatic toxicity: No further relevant in Persistence and degradability No fun Bioaccumulative potential No further Mobility in soil No further relevant info Additional ecological information: General notes: Do not allow material to be released to	relevant information available. ormation available. the environment without proper governmental permits. quantities to reach ground water, water course or sewage system. nt		
13 Disposal considerations			
Waste treatment methods Recommendation Consult state, local	or national regulations to ensure proper disposal.		
Uncleaned packagings:			
Recommendation: Disposal must be made according to official regulations.			

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4 Transport information			
UN-Number DOT. IMDG, IATA	UN1993		
UN proper shipping name			
DOT IMDG, IATA	Flammable liquids, n.o.s. (1,1,1,3,3,3-Hexafluoroisopropyl methacrylate) FLAMMABLE LIQUID, N.O.S. (1,1,1,3,3,3-Hexafluoroisopropyl methacrylate)		
Transport hazard class(es)			
DOT			
Class Label	3 Flammable liquids.		
Class	3 (F1) Flammable liquids		
Label IMDG, IATA	3		
Class	3 Flammable liquids.		
Label De défensement	3		
Packing group DOT, IMDG, IATA	11		
Environmental hazards:	Not applicable.		
Special precautions for user	Warning: Flammable liquids		
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information:			
DOT			
Marine Pollutant (DOT):	No		
UN "Model Regulation":	UN1993, Flammable liquids, n.o.s., special provision 640D (1,1,1,3,3,3- Hexafluoroisopropyl methacrylate), 3, II		
Signal word Danger Hazard statements H224 Extremely flammable liquid and vapour. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements P210 Keep away from heat/sparks/open flames/hot surfaces. No s P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clo P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regio. National regulations All components of this product are listed in the U.S. Environmental Protection A All components of this product are listed on the Canadian Non-Domestic Subste SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically qualified indiv Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulat The conditions of restrictions according to Article 67 and Annex XVII of th market and use must be observed. Substance is not listed.	nal/national/international regulations. gency Toxic Substances Control Act Chemical substance Inventory. ances List (NDSL). iduals. ions (EC) No. 1907/2006. Substance is not listed. e Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the		
Chemical safety assessment: A Chemical Safety Assessment has not been can 6 Other information Employers should use this information only as a supplement to other information information to ensure proper use and protect the health and safety of employees conformance with this Material Safety Data Sheet, or in combination with any of Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/23/2015 / - Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement IMDG: International Martime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstrates Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA)	n gathered by them, and should make independent judgement of suitability of this s. This information is furnished without warranty, and any use of the product not in her product or process, is the responsibility of the user.		

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- WHIMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent VPB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

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USA