



	11 03/29/2007
1 Identification	
Product identifier	
Product name: <u>6-Fluoro-1-indanone</u> Stock number: L17095	
CAS Number:	
1481-32-9 <b>Relevant identified uses of the substance or mixture and uses advised against.</b> Identified use: SU24 Scientific research and development	
Details of the supplier of the safety data sheet Manufacturer/Supplier:	
Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street	
Ward Hill MA 01835-8099	
Tel: 800-342-4757	
Email: tech@alfa.com www.alfa.com	
Information Department: Health, Safety and Environmental Department Emergency telephone number:	
During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.	
2 Hazard(s) identification	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
CHS07	
Skin Irrit. 2 H315 Causes skin irritation.	
Eye Irrit. 2A H319 Causes serious eye irritation.	
STOT SE 3 H335 May cause respiratory irritation. Hazards not otherwise classified No information known.	
Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)	
Hazard pictograms	
GHS07	
Signal word Warning	
Hazard statements H315 Causes skin irritation.	
H319 Causes serious eve irritation.	
H335 May cause respiratory irritation. Precautionary statements Provide the set for a function of the set former (many former former)	
P261 Avoid breathing dustriume/gas/mistvapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection.	
P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340 IF INHALED; Remove person to fresh air and keep comfortable for breathing.	
P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.	
WHMIS classification D2B - Toxic material causing other toxic effects	
<b>A</b>	
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Classification system HMIS ratings (scale 0-4)	
(Hazardou's Materials Identification System)	
HEALTH I Health (acute effects) = 1 FIRE I Flammability = 1 Flammability = 1	
Recurrent Physical Hazard = 1	
Other hazards Results of PBT and vPvB assessment	
PBT: Not applicable. vPvB: Not applicable.	
3 Composition/information on ingredients	
Chemical characterization: Substances	
CAS# Description: 1481-32-9 6-Fluoro-1-indanone	
4 First-aid measures	
Description of first aid measures	
After inhalation	
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. <b>After skin contact</b>	
Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.	
After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.	
After śwallowing Seek medical tréatment. (Cor	ntd. on page 2)
	USA

Product name: 6-Fluoro-1-indanone Information for doctor	(Contd. of page 1)
Information for doctor	(Conta: or page 1)
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 Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. 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 dioxide Hydrogen fluoride (HF) 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 ventilation Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Ensure adequate ventilation. Prevention of secondary hazards: No special measures required. 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: No information known. Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Store away from oxidizing agents. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Specific end use(s) No further relevant information available.	
<ul> <li>8 Exposure controls/personal protection</li> <li>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.</li> <li>Control parameters Components with limit values that require monitoring at the workplace: Not required.</li> <li>Additional information: No data</li> <li>Exposure controls Personal protective equipment General protective equipment measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all solied 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 respiratory protective device in case of insufficient ventilation. 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. Penetration time of glove material (in minutes) Not determined Eye protection: Salfety glasses Body protection: Protective work clothing.</li> </ul>	
9 Physical and chemical properties Information on basic physical and chemical properties	
General Information Appearance:	
Form: Crystalline powder Color: White	
Odor:     Not determined       Odor threshold:     Not determined.	
pH-value: Not applicable.	
Change in condition Melting point/Melting range: 56-59 °C (133-138 °F) Boiling point/Boiling range: 60 °C (140 °F) (0.5 mmHg) Sublimation temperature / start: Not determined	
Flash point: Not applicable Flammability (solid, gaseous) Not determined.	
Ignition temperature: Not determined	(Contd. on page 3) USA

## Product name: 6-Fluoro-1-indanone

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Product name: 6-Fluoro-1-indanone		
		(Contd. of page 2)
Decomposition temperature: Auto igniting:	Not determined Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits: Lower:	Not determined	
Upper:	Not determined	
Vapor pressure: Density:	Not applicable. Not determined	
Relative density Vapor density	Not determined. Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with Water:	Insoluble	
Partition coefficient (n-octanol/water) Viscosity:	: Not determined.	
dynamic:	Not applicable.	
kinematic: Other information	Not applicable. No further relevant information available.	
10 Stability and reactivity		
10 Stability and reactivity Reactivity No information known.		
Chemical stability Stable under recom	mended storage conditions. t <b>o be avoided</b> : Decomposition will not occur if used and stored according to specifications.	
Possibility of hazardous reactions Not	to be avoided: Decomposition will not occur it used and stored according to specifications.	
Conditions to avoid No further relevan Incompatible materials: Oxidizing age	t information available.	
Hazardous decomposition products:		
Carbon monoxide and carbon dioxide Hydrogen fluoride		
11 Toxicological information		
Information on toxicological effects		
Acute toxicity: No effects known. LD/LC50 values that are relevant for o	vlassification: No data	
Skin irritation or corrosion: Causes sl	kin irritation.	
Eye irritation or corrosion: Causes se Sensitization: No sensitizing effects kn	own.	
Germ cell mutagenicity: No effects kno	own.	
<b>Reproductive foxicity:</b> No effects know	on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Specific target organ system toxicity Specific target organ system toxicity	<ul> <li>repeated exposure: No effects known.</li> <li>single exposure: May cause respiratory irritation.</li> </ul>	
Aspiration hazard: No effects known.		
Subacute to chronic toxicity: No effect Additional toxicological information:	ts known. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.	
12 Ecological information		
Toxicity		
Aquatić toxicity: No further relevant inf Persistence and degradability No furth	iormation available.	
Bioaccumulative potential No further i	relevant information available.	
Mobility in soil No further relevant infor Additional ecological information:	mation available.	
General notes:	the any irremant without proper reversented permits	
Avoid transfer into the environment.	he environment without proper governmental permits.	
Results of PBT and vPvB assessmen PBT: Not applicable.	t	
vPvB: Not applicable. Other adverse effects No further releva	ant information available	
13 Disposal considerations Waste treatment methods		
Recommendation Consult state, local of	or national regulations to ensure proper disposal.	
Uncleaned packagings: Recommendation: Disposal must be m	ade according to official regulations.	
14 Transport information		
Not a hazardous material for transportat	ion.	
UN-Number DOT, IMDG, IATA	None	
UN proper shipping name DOT, IMDG, IATA	None	
Transport hazard class(es)	NULLE	
DOT, ADR, IMDG, IATA Class	None	
	None	
Packing group DOT, IMDG, IATA Environmental hazards:	None Not applicable.	
Special precautions for user	Not applicable. Not applicable.	
	I I of MARPOL73/78 and the IBC Code Not applicable.	
Transport/Additional information:	Not dangerous according to the above specifications.	
		(Contd. on page 4)

(Contd. on page 4)

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DOT Marine Pollutant (DOT):	No
GHS label elements The product is classified a Hazard pictograms	ns/legislation specific for the substance or mixture and labeled in accordance with 29 CFR 1910 (OSHA HCS)
P405 Store locked up. P501 Dispose of contents/contains National regulations This product is not listed in the U.S. Environme to research and development only. This produc product must not be used for commercial purpo SARA Section 313 (specific toxic chemical li California Proposition 65 Prop 65 - Chemicals known to cause cancer Prop 65 - Developmental toxicity Substance i Prop 65 - Developmental toxicity, female Subs Information about limitation of use: For use Other regulations, limitations and prohibitiv Substance of Very High Concern (SVHC) acd The conditions of restrictions according to A market and use must be observed. Substance is not listed.	Tective clothing/eyé protection/face protection. sly with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. on to fresh air and keep comfortable for breathing. Ther in accordance with local/regional/national/international regulations. Ter in accordance is not directly under the supervision of a technically qualified individual as defined by TSCA. This oses or in formulations for commercial purposes. <b>Istings)</b> Substance is not listed. Is not listed. Is not listed. Substance is not listed. The regulations recording to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the thing Authorisation for use) Substance is not listed.
6 Other information Employers should use this information only as a information to ensure proper use and protect th conformance with this Material Safety Data She	a supplement to other information gathered by them, and should make independent judgement of suitability of this he health and safety of employees. This information is furnished without warranty, and any use of the product not in eet, or in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing D Date of preparation / last revision 11/23/2015 Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chh HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System ( LC50: Lethal dose, 50 percent VPVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygi OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) MRC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	Department 5 / - hemical Society)