



1 Identification Product identifier Product name: 2'-Fluoro-6'-hydroxyacetophenone Stock number: H26130 CAS Number: 93339-98-1 Relevant identified uses of the substance or mixture and uses advised against. 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.
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Manufacturer/Supplier: Alfa Aesar Thermo Fisher Scientific Chemicals, Inc.
Thermo Fisher Scientific Chemicals, Inc.
30 Bond Street Ward Hill, MA 01835-8099
Tel: 800-343-0660 Fax: 800-322-4757 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)
GHS07
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.
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
\wedge
GHS07
Signal word Warning Hazard statements
H315 Causes skin irritation. H319 Causes serious eye irritation.
H335 May cause respiratory irritation. Precautionary statements
P261 Avoid breathing dust/fume/gas/mist/vapours/sprav
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
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Classification system
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
HEALTH I Health (acute effects) = 1 FIRE I Flammability = 1
REACTIVITY 1 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: 93339-98-1 2'-Fluoro-6'-hydroxyacetophenone
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. After skin contact
Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.
After swallowing Seek medical treatment.
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Product name: 2'-Fluoro-6'-hydroxyacetophenone (Contd. of page 1) 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 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 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:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). 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. 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 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. Wash hands before breaks and at the end of work. Avoid context with the everage and exin 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 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:** Safety glasses **Body protection:** Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Liquid 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: Not determined Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Not determined. Not determined Not determined

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Product name: 2'-Fluoro-6'-hvdroxvacetophenone

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		viewed on 05/01/2007
Product name: 2'-Fluoro-6'-hydroxya	acetophenone	
		(Contd. of page 2)
Auto igniting:	Not determined.	
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate Evaporation rate	Product does not present an explosion hazard. Not determined Not determined Not determined Not determined. Not determined. Not determined. Not determined. Not determined.	
Solubility in / Miscibility with Water:	Not determined	
Partition coefficient (n-octanol/water):		
Viscosity: dynamic:	Not determined.	
kinematic: Other information	Not determined. No further relevant information available.	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recomm Thermal decomposition / conditions to Possibility of hazardous reactions No Conditions to avoid No further relevant Incompatible materials: Oxidizing ager Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen fluoride	nt information available.	
11 Toxicological information Information on toxicological effects Acute toxicity: No effects known.		
LD/LC50 values that are relevant for c Skin irritation or corrosion: Causes sk Eye irritation or corrosion: Causes sk Sensitization: No sensitizing effects kno Germ cell mutagenicity: No effects kno Carcinogenicity: No classification data Reproductive toxicity: No effects know Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect	kin irritation. prous eye irritation. 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 info Persistence and degradability No furth Bioaccumulative potential No further re Mobility in soil No further relevant inforn Additional ecological information: General notes: Do not allow material to be released to the second	the environment without proper governmental permits.	
Do not allow undiluted product or large q Avoid transfer into the environment.	quantities to reach ground water, water course or sewage system.	I
Results of PBT and vPvB assessment PBT: Not applicable.	it	
PB1: Not applicable. vPvB: Not applicable. Other adverse effects No further releva		
Other adverse effects No further releva	ant information available.	
13 Disposal considerations Waste treatment methods Recommendation Consult state, local o Uncleaned packagings: Recommendation: Disposal must be m	or national regulations to ensure proper disposal. nade according to official regulations.	
14 Transport information Not a hazardous material for transportati	tion.	
UN-Number DOT, IMDG, IATA	None	
UN proper shipping name DOT, IMDG, IATA	None	
Transport hazard class(es) DOT, ADR, IMDG, IATA Class	None	
Packing group DOT, IMDG, IATA	None	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
	x II of MARPOL73/78 and the IBC Code Not applicable.	
Transport/Additional information:	Not dangerous according to the above specifications.	
		(Contd. on page 4)

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DOT Marine Pollutant (DOT):	No
	ns/legislation specific for the substance or mixture and labeled in accordance with 29 CFR 1910 (OSHA HCS)
Signal word Warning Hazard statements H315 Causes skin irritation. H315 Causes serious eye irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements P261 Avoid breathing dust/fume/g P280 Wear protective gloves/prote P305+P351+P338 IF IN EYES: Rinse cautiousl P304+P340 IF INHALED: Remove perso P405 Store locked up. P501 Dispose of contents/containe National regulations This product is not listed in the U.S. Environment to research and development only. This product product must not be used for commercial purpo SARA Section 313 (specific toxic chemical li California Proposition 65 Prop 65 - Developmental toxicity, substance Throy 65 - Developmental toxicity, male Subs Information about limitation of use: For use o Other regulations, limitations and prohibitive Substance of Very High Concern (SVHC) acc The conditions of restrictions according to A market and use must be observed. Substance is not listed.	 the citive clothing/eye 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. her in accordance with local/regional/national/international regulations. ental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted ct must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This poses or in formulations for commercial purposes. Istings) Substance is not listed. r Substance is not listed. is n
information to ensure proper use and protect the	a supplement to other information gathered by them, and should make independent judgement of suitability of this ne 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 Do Date of preparation / last revision 11/24/2015 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 Che HMIS: Hazardous Materials Information System (USA) WHMIS: Workplace Hazardous Materials Information System (USA) UC50: Lethal concentration, 50 percent UD50: Lethal cose, 50 percent VPW: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygi OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) MARC: International Ageincy for Research on Cancer EPA: Environmental Protection Agency (USA)	5 / - nemical Society) (Canada)