



Reviewed on 02/12/20
1 Identification
Product identifier Product name: 4'-Fluoro-2'-hydroxyacetophenone
Stock number: A16030, L13982
CAS Number: 1481-27-2
Release t 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. 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.
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 eye irritation.
H335 May cause respirátory 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
File Image: Flammability = 1 Reactivity I 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:
1481-27-2 4'-Fluoro-2'-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 eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment.
(Contd. on page USA

Product name: 4'-Fluoro-2'-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 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 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 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. Eve protection: Safety glasses Body protection: Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Crystalline Odor: Odor threshold: Not determined Not determined pH-value: Not applicable. Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: 32-34 °C (90-93 °F) Not determined Not determined Flash point: Not applicable Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Not determined Not determined Not determined Auto igniting: Not determined Danger of explosion: Product does not present an explosion hazard. (Contd. on page 3)

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Product name: 4'-Fluoro-2'-hydroxyacetophenone		
		(Contd. of page 2)
Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Evapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water) Viscosity: dynamic: kinematic: Other information	Not determined Not determined Not applicable. Not determined Not determined. Not applicable. Not applicable. Not determined I: Not determined. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.	
10 Stability and reactivity		
Reactivity No information known. Chemical stability Stable under recommended to the composition / conditions of Possibility of hazardous reactions No Conditions to avoid No further relevan Incompatible materials: Oxidizing age Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen fluoride	t information available.	
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. rious eye irritation. own. own. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. vn. - repeated exposure: No effects known. - single exposure: May cause respiratory irritation.	
12 Ecological information Toxicity Aquatic toxicity: No further relevant information Persistence and degradability No further Bioaccumulative potential No further of Mobility in soil No further relevant information: General notes: Do not allow material to be released to to Do not allow undiluited product or large of Avoid transfer into the environment. Results of PBT and vPvB assessmen PBT: Not applicable. VPvB: Not applicable. Other adverse effects No further relevant	her relevant information available. relevant information available. rmation 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 of 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 transportat	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.	
	c II of MARPOL73/78 and the IBC Code Not applicable.	
Transport/Additional information:	Not dangerous according to the above specifications.	(Contra contra d)
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duct name: 4'-Fluoro-2'-hydroxyac	elophenone
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DOT Marine Pollutant (DOT):	No
GHS label elements The product is classif	tions/legislation specific for the substance or mixture fied 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 eye irritation. H335 May cause respiratory irritation.	
Precautionary statements P261 Avoid breathing dust/fur P280 Wear protective gloves/ P305+P351+P338 IF IN EYES: Rinse caut P304+P340 IF INHALED: Remove p P405 Store locked up.	me/gas/mist/vapours/spray. /protective clothing/eye protection/face protection. tiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. person to fresh air and keep comfortable for breathing.
National regulations This product is not listed in the U.S. Enviro to research and development only. This pro product must not be used for commercial p SARA Section 313 (specific toxic chemic California Proposition 65	
Prop 65 - Chemicals known to cause car Prop 65 - Developmental toxicity Substa Prop 65 - Developmental toxicity, female Prop 65 - Developmental toxicity, male 3 Information about limitation of use: For Other regulations, limitations and prohil Substance of Very High Concern (SVHC	nce is not listed. e Substance is not listed.
The conditions of restrictions according market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (ri	equiring Authorisation for use) Substance is not listed. al Safety Assessment has not been carried out.
Other information Employers should use this information only information to ensure proper use and prote conformance with this Material Safety Data	v as a supplement to other information gathered by them, and should make independent judgement of suitability of this act the health and safety of employees. This information is furnished without warranty, and any use of the product not a Sheet, or in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketin Date of preparation / last revision 11/23/ Abbreviations and acronyms: MDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation ATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the America HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information Sys (250: Lethal concentration, 50 percent	ng Department /2015 / - s an Chemical Society) stem (Canada)
LDOU: Letrial dose, 50 percent PVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industria SSHA: Occupational Safety and Health Administration (L NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	ıl Hygienists (USA) JSA)