

Safety Data Sheet per OSHA HazCom 2012

Reviewed on 01/22/2008
1 Identification
Product identifier Product name: 4-Cyano-4-(4-fluorophenyl)cyclohexanone
Stock number: H27285
CAS Number: 56326-98-8
EC number:
260-111-7 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. 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: Call Carechem 24 at +44 (0) 1865 407333
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)
GHS06 Skull and crossbones
Acute Tox. 3 H331 Toxic if inhaled.
GHS07
Acute Tox. 4 H302 Harmful if swallowed.
Acute Tox. 4 H312 Harmful in contact with skin. 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
GHS06
Signal word Danger
Hazard statements H302+H312 Harmful if swallowed or in contact with skin.
H331 Toxic if inhaled. H315 Causes skin irritation.
H319 Causes serious eye irritation. H335 May cause respiratory irritation.
Precautionary statements 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, it 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
D1B - Toxic material causing immediate and serious toxic effects D2B - Toxic material causing other toxic effects
Classification system HMIS ratings (scale 0-4)
(Hazardouš Materials Identification System)
HEALTH I FIRE I FIRE I REACTIVITY I Physical Hazard = 1
Other hazards Results of PBT and vPvB assessment PBT <u>:</u> Not applicable.
vPvB: Not applicable.
3 Composition/information on ingredients
Chemical characterization: Substances CAS# Description:
56326-98-8 4-Cyano-4-(4-fluorophenyl)cyclohexanone (Contd. on page 2)

(Contd. of page 1)

Product name: 4-Cyano-4-(4-fluorophenyl)cyclohexanone

Identification number(s): EC number: 260-111-7

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. 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

Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Hydrogen fluoride (HF) Hydrogen cyanide (HCN) **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: Dispose of contaminated material as waste according to section 13. 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

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:

Protection of hands: Impervious gloves

The periods groves 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.

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9 Physical and chemical properties	
Information on basic physical and che General Information Appearance:	emical properties
Form:	Crystalline powder
Color: Odor:	White Not determined
Odor threshold:	Not determined.
pH-value:	Not applicable.
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	91-94 °C (196-201 °F) Not determined Not determined
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not applicable Not determined. Not determined Not determined Not determined.
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.
Lower:	Not determined
Upper: Vapor pressure:	Not determined Not applicable.
Density: Relative density	Not determined Not determined.
Vapor density	Not applicable.
Evaporation rate Solubility in / Miscibility with	Not applicable.
Water: Partition coefficient (n-octanol/water). Viscosity:	
dynamic: kinematic:	Not applicable. Not applicable.
Other information	No further relevant information available.
Thermal decomposition / conditions t Possibility of hazardous reactions No Conditions to avoid No further relevan Incompatible materials: Oxidizing ager Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Hydrogen fluoride Hydrogen cyanide	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 effec Subacute to chronic toxicity: Nitriles may resemble cyanides in toxicit respiration, nausea, vomiling, weakness	in irritation. rious eye irritation. own. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. - repeated exposure: No effects known. - repeated exposure: May cause respiratory irritation.
12 Ecological information	
	ner relevant information available. elevant information available. mation available. he environment without proper governmental permits. quantities to reach ground water, water course or sewage system.

PBT: Not applicable. **vPvB:** Not applicable. **Other adverse effects** No further relevant information available.

Product name: 4-Cyano-4-(4-fluorophenyl)cyclohexanone

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3 Disposed considerations		(Contd. of page 3
UN-Number DOT, IMDG, IATA UN3439 UN proper shipping name MIRG, IATA NITRUES, SOLID, TOXIC, N.O.S. (4-Cyano-4/4-Ruorophenylloyck/texanone) Transport hazard class(es) NITRUES, SOLID, TOXIC, N.O.S. (4-Cyano-4/4-Ruorophenylloyck/texanone) OF Solid Solid <td< th=""><th>Waste treatment methods Recommendation Consult state, local or national regulations to Uncleaned packagings:</th><th></th></td<>	Waste treatment methods Recommendation Consult state, local or national regulations to Uncleaned packagings:	
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Signal word Danger Hazard statements H302+H32 Harmful if swallowed or in contact with skin. H31 Toxic if inhaled. H31 Toxic if inhaled. H31 Toxic if inhaled. H31 Causes skin initiation. H319 Causes skin initiation. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P261 Wear protective gloves/protective clothing/eye protection/face protection. P305+P3351+P3381 FIN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305+P3351+P338 FIN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305+P3351+P338 FIN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305+P3351+P338 FIN EYES: Rinse cautiously with water for several minutes. Remove locked up. Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. National regulations Informulations for commercial purposes or in formulations for commercial purposes. SARA Section 313 (specific toxic chemical listings) Substance is not listed. Prop 65 - Developmental toxicity, Substance is not listed. <td< th=""><th>Hazard pictograms</th><th></th></td<>	Hazard pictograms	
Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.	Hazard statementsH302+H312 Harmful if swallowed or in contact with skin.H331 Toxic if inhaled.H315 Causes skin irritation.H319 Causes serious eye irritation.H319 Causes serious eye irritation.H335 May cause respiratory irritation.Precautionary statementsP261 Avoid breathing dust/fume/gas/mist/vapours/P280 Wear protective gloves/protective clothing/eyP305+P351+P338 IF IN EYES: Rinse cautiously with water for sP304+P340 IF INHALED: Remove person to fresh air andP405 Store locked up.P501 Dispose of contents/container in accordanceNational regulationsThis product is not listed in the U.S. Environmental Protection Ato research and development only. This product must be used for commercial purposes or in formulaSARA Section 313 (specific toxic chemical listings) SubstanCalifornia Proposition 65Prop 65 - Developmental toxicity, female Substance is not listed.Prop 65 - Developmental toxicity, female Substance is not listed.Prop 65 - Developmental toxicity, rese only by technical.Other regulations, limitations and prohibitive regulationsSubstance of Very High Concern (SVHC) according to the RThe conditions of restrictions according to Article 67 and Amarket and use must be observed.	ye protection/race protection. several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. d keep comfortable for breathing. a with local/regional/national/international regulations. Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted by or directly under the supervision of a technically qualified individual as defined by TSCA. This ations for commercial purposes. Ince is not listed. bt listed. d. Ily qualified individuals. REACH Regulations (EC) No. 1907/2006. Substance is not listed.
	Annex XIV of the REACH Regulations (requiring Authorisati	ton for use) Substance is not listed. t has not been carried out.

Product name: 4-Cyano-4-(4-fluorophenyl)cyclohexanone

(Contd. of page 4)

USA

16 Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the use Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) MDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances LCSO: Lethal concentration, 50 percent LDSO: Lethal concentration, 60 percent LDSO: Lethal dose, 50 percent LDSO: Lethal dose, 50 percent LDSO: Comparitonial Asteriate and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSH: Occupational Safety and Health Administration (USA) MTP: National Toxicology Program (USA) MTP: National Toxicology Program (USA)