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	Version 1
1 Identification	
Product identifier	
Product name: <u>4-(4-Hydroxyphenyl)cyclohexanone</u> Stock number: H55767	
CAS Number: 105640-07-1	
ELINCS Number:	
423-920-8 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:	
During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-078	9.
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 respiratory irritation.         H335 May cause respiratory irritation.         Precautionary statements         P261       Avoid breathing dust/fume/gas/mist/vapors/spray         P280       Wear protective gloves / 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	
Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH I Health (acute effects) = 1 FIRE I 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:	
Chor Description: 105640-07-1 4-(4-Hydroxyphenyl)cyclohexanone Concentration: ≤100%	
Identification number(s): ELINCS Number: 423-920-8	
4 First-aid measures	
Description of first aid measures	
<b>After inhalation</b> Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.	
Seek immediate medical advice.	Contd. on page 2)

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After	<sup>,</sup> 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 Causes skin irritation. Causes serious eye irritation. 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: Or how monovide and earthen dioxiden discussion. Carbon monoxide and carbon dioxide 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 product to reach sewage system or any water course. **Methods and material for containment and cleaning up:** Ensure adequate ventilation. Preventions and material for containment and cleaning up. Ensure 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. Protective Action Criteria for Chemicals **PAC-1:** Substance is not listed **PAC-2:** Substance is not listed

PAC-3: Substance is not listed.

## 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 parameter

Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. 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 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 respirator when high concentrations are present. Recommended filter device for short term use: Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. Protection of hands: Impervious gloves

Impervious gloves Check protection of nands: 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: Safety glasses with side shields / NIOSH (US) or EN 166(EU) Body protection: Protective work clothing.

9 Physical and chemical properties		
Information on basi General Information Appearance: Form:	c physical and chemical properties	
Odor:	Not determined	
		(Contd. on page 3) USA



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Product name. 4-(4-Hydroxyphenyl)	
	(Contd. of page 2
Odor threshold:	Not determined.
pH-value:	Not applicable.
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	170-175 °C (338-347 °F) Not determined Not determined Not determined Not determined Not determined Not determined.
Danger of explosion: Explosion limits: Lower:	Not determined. Not determined
Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with	Not determined Not applicable. Not determined Not determined. Not applicable. Not applicable.
Water: Partition coefficient (n-octanol/water) Viscosity:	
dynamic: kinematic: Other information	Not applicable. Not applicable. No further relevant information available.
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recom Thermal decomposition / conditions Possibility of hazardous reactions Re Conditions to avoid No further relevan Incompatible materials: Oxidizing age Hazardous decomposition products:	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	e irritation e irritation own. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. - 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 furt Bioaccumulative potential No further Mobility in soil No further relevant info Additional ecological information: General notes:	formation available. her relevant information available. relevant information available. rmation available. quantities to reach ground water, water course or sewage system. <b>t</b>
13 Disposal considerations Waste treatment methods Recommendation Consult state, local Uncleaned packagings: Recommendation: Disposal must be n	or national regulations to ensure proper disposal. nade according to official regulations.

Not applicable

Not applicable

Not applicable

14 Transport information UN-Number DOT, ADN, IMDG, IATA

UN proper shipping name DOT, ADR, ADN, IMDG, IATA Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA Class

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	Versio
duct name: 4-(4-Hydroxyphenyl)cyclohexar	none
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Packing group DOT, ADR, IMDG, IATA	Not applicable
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL	L73/78 and the IBC Code Not applicable.
Transport/Additional information:	
DOT Marine Pollutant (DOT):	No
UN "Model Regulation":	Not applicable
Regulatory information Safety, health and environmental regulations/legisl GHS label elements The product is classified and labe Hazard pictograms	lation specific for the substance or mixture eled in accordance with 29 CFR 1910 (OSHA HCS)
GHS07	
Signal word Warning Hazard statements	
H315 Causes skin irritation. H319 Causes serious eye irritation.	
H335 May cause respiratory irritation. Precautionary statements	
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P280 Wear protective gloves / eve protec	ction / face protection.
P305+P351+P336 If III eyes: Rinse caulously with wat P304+P340 IF INHALED: Remove person to fre	ter for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405 Store locked up.	cordance with local/regional/national/international regulations.
National regulations	
This product is not listed in the U.S. Environmental Pro to research and development only. This product must k	otection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restric be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This
product must not be used for commercial purposes or i	in formulations for commercial purposes.
SARA Section 313 (specific toxic chemical listings) California Proposition 65	ubstances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). ) Substance is not listed.
Drop 65 Chamicala known to gougo gongar Substa	anao io not liatod
Prop 65 - Developmental toxicity Substance is not lis	sted.
Prop 65 - Developmental toxicity, female Substance	i is not listed. s not listed
Information about limitation of use: For use only by	technically qualified individuals.
Other regulations, limitations and prohibitive regula Substance of Very High Concern (SVHC) according	arce is not listed. e is not listed. e is not listed. technically qualified individuals. lations g to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. g to the REACH Regulations (EC) No. 1907/2006 (REACH) for the manufacturing, placing on
The conditions of restrictions according to Article	67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on
Substance is not listed.	
Annex XIV of the REACH Regulations (requiring Au Chemical safety assessment: A Chemical Safety Ass	Ithorisation for use) Substance is not listed.
<b>Other information</b> Employers should use this information only as a supple	ement to other information gathered by them, and should make independent judgement of suitability of this
information to ensure proper use and protect the health	h and safety of employees. This information is furnished without warranty, and any use of the product not nation with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Department Date of preparation/Revision: Print date, revision dat	te and version number are in the header of each page.
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)
IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation	
IATA: International All Transport Association EINECS: European Inventory of Existing Commercial Chemical Substant CAS: Chemical Abstracts Service (division of the American Chemical Service)	COS
HMIS: Hazardous Materials Identification System (USA)	(dety)
LC50: Lethal cose fo percent 1D50: Lethal cose fo percent	
PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Verv High Concern	
VPVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (US	par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) Ices Ices SA)
OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA)	
IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	
Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A	
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