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Page 1/4 Printing date 05/04/2017 Revision date 05/03/2017 Version 2

| 1 Identification | |
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| Product identifier Product name: <mark>2-Acetylcyclohexanone</mark> | |
| Stock number: A11701 CAS Number: | |
| 874-23-7 EC number: 212-858-5 | |
| 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) | |
| Flam. Liq. 4 H227 Combustible liquid. 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 Not applicable Signal word Warning Hazard statements | |
| | |
| Precautionary statements P210 Keep away from flames and hot surfaces. No smoking. P280 Wear protective gloves / eye protection / face protection. P370+P378 In case of fire: Use for extinction: CO2, powder or water spray. P403+P235 Store in a well-ventilated place. Keep cond. P500 Dispose of contents/container in accordance with local/regional/national/international regulations. | |
| P403+P235 Store in a well-ventilated place. Keep cool. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification | |
| B3 - Combustible liquid | |
| | |
| Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) | |
| HEALTH I Health (acute effects) = 1 | |
| FIRE 2 REACTIVITY 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: 874-23-7 2-Acetylcyclohexanone Concentration: ≤100% | |
| Identification number(s): EC number: 212-858-5 | |
| 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 resista Special hazards arising from the substance or mixture | ant foam. |
| If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide | |
| | (Contd. on page 2) USA |

Product name: 2-Acetylcyclohexanone

Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.

6 Accidental release measures

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: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Prevention of secondary hazards: Keep away from ignition sources. 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: Keep ignition sources away.

Conditions for safe storage, including any incompatibilities

Conditions for sale storage, moleculary any answerptic storage Storage Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Store away from strong bases. 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: 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 precationary 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. 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 multi-purpose combination (US) or type ABEK (EN 14387) 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 such as NIOSH (USA) or CEN (EU). 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. Eye protective: Protective work clothing. Body protection: Safety glasses with side shields / NIOSH (US) or EN 166(EU) Body protection: Protective work clothing.

9 Physical and chemical properties

| Information on basic physical and cl General Information Appearance: Form: Odor: Odor threshold: | hemical properties Liquid Not determined Not determined. |
|---|--|
| pH-value: | Not determined. |
| Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: | Not determined 111-112 °C (232-234 °F) (18mm) Not determined |
| Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting: | 79 °C (174 °F) Not determined. Not determined Not determined Not determined. |
| Danger of explosion: | Not determined. |
| | (Contd. on page 3) |

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Product name: 2-Acetylcyclohexanone

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| Explosion limits: | | |
|--|--|--|
| Lower: | Not determined | |
| Upper: | Not determined Not determined | |
| Vapor pressure: Density at 20 °C (68 °F): | 1.063 g/cm³ (8.871 lbs/gal) | |
| Relative density Vapor density | Not determined. | |
| Evaporation rate | Not determined. | |
| Solubility in / Miscibility with Water: | Not miscible or difficult to mix | |
| Partition coefficient (n-octanol/water) | | |
| Viscosity: dynamic: | Not determined. | |
| kinematic: | Not determined. | |
| Other information | No further relevant information available. | |
| 10 Stability and reactivity | | |
| Reactivity No information known. Chemical stability Stable under recom | mended storage conditions | |
| Thermal decomposition / conditions | to be avoided: Decomposition will not occur if used and stored according to specifications. | |
| Possibility of hazardous reactions Re Conditions to avoid No further relevant | eacts with strong oxidizing agents | |
| Incompatible materials: | | |
| Bases Oxidizing agents | | |
| Hazardous decomposition products: | Carbon monoxide and carbon dioxide | |
| 11 Toxicological information | | |
| Information on toxicological effects | ffects of Chemical Substances (RTECS) contains acute toxicity data for this substance. | |
| LD/LC50 values that are relevant for a | classification: No data | |
| Skin irritation or corrosion: May cause Eye irritation or corrosion: May cause | e irritation | |
| Sensitization: No sensitizing effects kn Germ cell mutagenicity: No effects kn | iown. | |
| Germ cell mutagenicity: No effects kn Carcinogenicity: No classification data | own. a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. | |
| Reproductive toxicity: No effects know | vn. | |
| Specific farget organ system toxicity | - repeated exposure: No effects known. | |
| Specific target organ system toxicity | - SINGLE EXDOSUFE: NO ELECTS KNOWN | |
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| 15 Regulatory information | |
| Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms Not applicable Signal word Warning Hazard statements H227 Combustible liquid. | |
| Precautionary statements. Precautionary statements P210 Keep away from flames and hot surfaces. No smoking. P280 Wear protective gloves / eye protection / face protection. P370+P378 In case of fire: Use for extinction: CO2, powder or water spray. P403+P235 Store in a well-ventilated place. Keep cool. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. National regulations | |
| All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. All components of this product are listed on the Canadian Domestic Substances List (DSL). SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Chemicals known to cause cancer Substance is not listed. | |
| Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. | the |
| Substance is not listed. 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. | |
| 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 Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. | n |
| Department issuing SDS: Global Marketing Department Date of preparation/Revision: Print date, revision date 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) IMDE: International Maritime Code for Dangerous Goods DDT: US Department of Transport Association IAT A: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Information System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent DBT: Persistent, Bloaccumulative and Toxic SVHC: Substances of Very High Concern VPW: very Persistent and very Bloaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) MTP: National Toxicology Program (USA) MTP: National Toxicology Program (USA) MTP: Liquet Administration Administration Administration (USA) MTP: Liquet Administration Administration Administration (USA) Flam. Liquet 4: Flammable liquids – Category 4 | |
| WHMIS: Workplace Hazardous Materials information Oystem (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal cose, 50 percent PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) | |
| OSHA: Occupational Safety and Health Administration (USÅ) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA) Flam. Liq. 4: Flammable liquids – Category 4 | SA - |