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1 Identification	
Product identifier	
Product name: 2-Decanone	
Stock number: A14145, L05327 CAS Number: 693-54-9	
EC number: 211-752-6	
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) 928-0789.	
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	
H227 Combustible liquid.	
Precautionary statements P210 Keep away from flames and hot surfaces. No smoking.	
P280 Wear protective gloves / eve 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.	
WHIIS classification B3 - Combustible liquid	
\odot	
Classification system HMIS ratings (scale 0-4)	
(Hazardouš Materials Identification System)	
HEALTH I FIRE 2 FRACTIVITY 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:	
693-54-9 2-Decanone Concentration: ≤100%	
Identification number(s): EC number: 211-752-6	
4 First-aid measures	4
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 immédiate 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	٦
Extinguishing media	
Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. (Contd. on page	e 2)

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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 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 vermination 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. Prevention of secondary hazards: Keep away from ignition so 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 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: 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

Personal protective equipment General protective and hygienic measures

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. 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). 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. **Material of gloves** Butyl rubber, BR **Eye protection:** Safety glasses with side shields / NIOSH (US) or EN 166(EU) **Body protection:** Protective work clothing.

9 Physical and chemical properties

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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:	3 °C (37 °F) 210-212 °C (410-414 °F) Not determined
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	86 °C (187 °F) Not determined Not determined Not determined Not determined
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Safety Data Sheet

Product name: 2-Decanone

		(Contd. of page 2)		
Danger of explosion:	Not determined.	(Conta. of page 2)		
Explosion limits:				
Lower: Upper:	Not determined Not determined			
Vabor pressure:	Not determined			
Density at 20 °C (68 °F): Relative density	0.824 g/cm³ (6.876 lbs/gal) Not determined.			
Vapor density	Not determined.			
Evaporation rate Solubility in / Miscibility with	Not determined.			
Water:	Not miscible or difficult to mix			
Partition coefficient (n-octanol/water) Viscosity:	: Not determined.			
dynamic: kinematic:	Not determined.			
Other information	Not determined. No further relevant information available.			
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions Reacts with strong oxidizing agents Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide				
11 Toxicological information				
Information on toxicological effects				
Acute toxicity: The Registry of Toxic E	ffects of Chemical Substances (RTECS) contains acute toxicity data for this substance.			
LD/LC50 values that are relevant for	classification:			
Oral LD50 7936 mg/kg (mouse) Skin irritation or corrosion: May caus	e irritation			
Eye irritation or corrosion: May cause	irritation			
Sensitization: No sensitizing effects kn Germ cell mutagenicity: No effects kn				
Carcinogenicity: No classification data	on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.			
Reproductive toxicity: No effects know	vn.			
Specific target organ system toxicity	- repeated exposure: No effects known.			
Specific target organ system toxicity	- single exposure: No effects known.			
Aspiration hazard: No effects known.	te lucasum			
Subacute to chronic toxicity: No effect Additional toxicological information:	ts known. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.			
12 Ecological information				
Toxicity Aquatic toxicity: No further relevant in	formation available			
Persistence and degradability No furt	her relevant information available.			
Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available.				
Mobility in soil No further relevant information available. Additional ecological information:				
General notes: Avoid transfer into the Results of PBT and vPvB assessment				
PBT: Not applicable.	L Contraction of the second			
vPvB: Not applicable. Other adverse effects No further relev.	ant information available			
13 Disposal considerations				
Waste treatment methods	ar national regulations to ansure proper dispessel			
Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings:				
Recommendation: Disposal must be n	nade according to official regulations.			
14 Transport information				
UN-Number				
DOT, ADN, IMDG, IATA	Not applicable			
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	Not applicable			
Transport hazard class(es)	τοι αρριτοαυτο			
DOT, ADR, ADN, IMDG, IATA Class	Not applicable			
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 MARPOL73/78 and the IBC Code Not applicable.				
Transport/Additional information:				
DOT Marine Pollutant (DOT):	Νο			
		(Contd. on page 4)		
		USA -		

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UN "Model Regulation":

Not applicable

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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

 P210
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 P280
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 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.

 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 Non-Domestic Substances List (NDSL). All components of this product are listed on the Canadian Non-Domestic Substance's List (NDSL). 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 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male 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. Substance is not listed. 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. conformance with this Safety Data Sheet, or in combination 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 date and version number are in the header of each page.
Abbreviations and accomyse:
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
IA1A: International Air Transport Association
ENECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
HMIS: Horardous Materials Information System (USA)
WHMIS: Workplace Hazardous Materials Information System (Canada)
LC50: Lethal concentration, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
VPWE: very Persistent, and very Bioaccumulative
ACGIH: American Conference of Governmental Industrial Hygienists (USA)
OSHA: Occupational Safety and Health Administration (USA)
NTP: National Toxicology Program (USA)
Flam. Liq. 4: Flammable liquids – Category 4 USA