



1 Identification Product identifier Product name: 3-Methyl-2-pentanone Stock number: L06401 CAS Number: 565-61-7 EC number: 209-282-1 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 Details of the supplier of the safety da 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 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) * GHS02 Flame Flam. Liq. 2 H225 Highly flammable liquid and vapor. 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 GHS02 Signal word Danger Hazard statements H225 Highly flammable liquid and vapor. Precautionary statements

 P210
 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

 P280
 Wear protective gloves/protective clothing/eye protection/face protection.

 P240
 Ground/bond container and receiving equipment.

 P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

 P403+P235
 Store in a well-ventilated place. Keep cool.

 P501
 Dispose of context input in generation on the context input in generation of context input in generation of the context input in generating the context input in generation of the context input in generat Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification B2 - Flammable liquid * Classification system (Hazardous Materials Identification System) 1
Health (acute effects) = 1

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Image: Second state Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. 3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: Methyl-2-pentanone Identification númber(s): ÉC number: 209-282-1 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 2)

(Contd. of page 1)

Product name: 3-Methyl-2-pentanone

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 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 Keep away from ignition sources Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Keep away from ignition sources. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation. 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.

7 Handling and storage

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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: Protect against electrostatic charges. Fumes can combine with air to form an explosive mixture. Keep ignition sources away.
Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: Store in a cool location. 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. 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. 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. Penetration time of glove material (in minutes) Not determined
Eye protection: Safety glasses Body protection: Protective work clothing.
9 Physical and chemical properties
Information on basic physical and chemical properties General Information
Appearance:
Form: Liquid Color: Colorless
Odor: Not determined Odor threshold: Not determined.

Product name: 3-Methyl-2-pentanone

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Product name: 3-Methyl-2-pentan	one	
		(Contd. of page 2)
Flash point: Flammability (solid, gaseous)	12 °C (54 °F) Not determined.	
Ignition temperature:	Not determined	
Decomposition temperature: Auto igniting:	Not determined Not determined.	
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures is possible.	
Explosion limits: Lower:	Not determined	
Upper: Vapor pressure:	Not determined Not determined	
Density at 20 °C (68 °F):	0.81 g/cm³ (6.759 lbs/gal)	
Relative density Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with Water:	Not determined	
Partition coefficient (n-octanol/wat Viscosity:	er): Not determined.	
dynamic:	Not determined.	
kinematic: Other information	Not determined. No further relevant information available.	
10 Stability and reactivity		
Reactivity No information known. Chemical stability Stable under reco	ommended storage conditions	
Thermal decomposition / condition	is to be avoided: Decomposition will not occur if used and stored according to specifications.	
Possibility of hazardous reactions Conditions to avoid No further relev	vant information available.	
Incompatible materials: Oxidizing a		
11 Toxicological information		
Information on toxicological effect Acute toxicity: No effects known.	S	
LD/LC50 values that are relevant for		
Skin irritation or corrosion: Irritation		
Eye irritation or corrosion: Irritating Sensitization: No sensitizing effects	known.	
Germ cell mutagenicity: No effects	known. ata on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Reproductive toxicity: No effects kr	nown.	
Specific target organ system toxic	i ty - repeated exposure : No effects known.	
Aspiration hazard: No effects know	ity - repeated exposure: No effects known. ity - single exposure: No effects known. n.	
Subacute to chronic toxicity: No ef	fects known. n : To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.	
<u> </u>		
12 Ecological information		
Toxicity Aquatic toxicity: No further relevant	information available	
Persistence and degradability No f	urther relevant information available.	
Bioaccumulative potential No furthe Mobility in soil No further relevant in	er relevant information available. Iformation available.	
Additional ecological information:		
General notes: Do not allow material to be released a	to the environment without proper governmental permits.	
Do not allow undiluted product or larg Avoid transfer into the environment.	to the environment without proper governmental permits. ge quantities to reach ground water, water course or sewage system.	
Results of PBT and vPvB assessm	ent	
PBT: Not applicable. vPvB: Not applicable.		
Other adverse effects No further rel	evant information available.	
13 Disposal considerations		
Waste treatment methods		
Recommendation Consult state, loc	al or national regulations to ensure proper disposal.	
Uncleaned packagings: Recommendation: Disposal must be	e made according to official regulations.	
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14 Transport information UN-Number		
DOT, IMDĞ, IATA	UN1224	
UN proper shipping name DOT	Ketones, liquid, n.o.s. (3-Methyl-2-pentanone)	
IMDG, IATA	KETONES, LIQUID, N.O.S. (3-Methyl-2-pentanone)	
Transport hazard class(es)		
DOT		
Class	3 Flammable liquids.	
Label Class	3 3 (F1) Flammable liquids	
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	Reviewed on 01/22/200
oduct name: 3-Methyl-2-pentanone	
	(Contd. of page
Label IMDG, IATA	3
Class Label	3 Flammable liquids. 3
Packing group DOT, IMDG, IATA	11
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Flammable liquids
Transport in bulk according to Annex II of MARPOL7	3/18 and the IBC Code Not applicable.
Transport/Additional information: DOT	
Marine Pollutant (DOT):	No
UN "Model Regulation":	UN1224, Ketones, liquid, n.o.s., special provision 640D (3-Methyl-2-pentanone), 3
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5 Regulatory information	a the second
Safety, health and environmental regulations/legisla GHS label elements The product is classified and label	tion specific for the substance or mixture ed in accordance with 29 CER 1910 (OSHA HCS)
Hazard pictograms	
10 × 10 × 10 × 10 × 10 × 10 × 10 × 10 ×	
GHS02	
Signal word Danger	
Hazard statements	
H225 Highly flammable liquid and vapor. Precautionary statements	
P210 Keen away from heat/sparks/open fla	imes/hot surfaces. No smoking.
P280 Wear protective gloves/protective cloves/ P240 Ground/bond container and receiving	thing/eye protection/face protection.
P303+P361+P353 If on skin (or hair). Take off immediat	elv all contaminated clothing. Rinse skin with water/shower.
P403+P235 Store in a well-ventilated place. Keep P501 Dispose of contents/container in according	o cool. ordance with local/regional/national/international regulations.
National regulations	
All components of this product are listed on the Canadia	n Domestic Substances List (DSL). action Agongy Tavia Substances Control Act Chamical Substance Inventory . Use of this product is restrict
to research and development only. This product must be	scion Agency route substances control Act chemical substance inventory. Use of this product is restrict sused 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 in	n Domestic Substances List (DSL). ection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restric: a used by or directly under the supervision of a technically qualified individual as defined by TSCA. This formulations for commercial purposes. Substance is not listed.
Prop 65 - Chemicals known to cause cancer Substan	ce is not listed.
Prop 65 - Developmental toxicity Substance is not liste Prop 65 - Developmental toxicity, female Substance is	∂a. s not listed
Prop 65 - Chemicals known to cause cancer Substan Prop 65 - Developmental toxicity Substance is not liste Prop 65 - Developmental toxicity, female Substance is Prop 65 - Developmental toxicity, male Substance is Information about limitation of use: For use only by te Other regulations limitation of uses and predictive	not listed.
Information about limitation of use: For use only by te Other regulations, limitations and prohibitive regulat	chnically qualified individuals.
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	7 and Annay VV/IITef the Demulation /CO) No 1007/0000 /DC1011 for the meanufesturing plesing on t
market and use must be observed	7 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on th
market and use must be observed. Substance is not listed.	
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