

Revision:	28.03.2014
SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1 Product identifier	
Trade name <u>4-Methyl-2-pentanone</u>	
Stock number: A11618 CAS Number:	
108-10-1 EC number:	
203-550-1 Index number: 606-004-00-4	
1.2 Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development	
1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier:	
Alfa Aesar Avocado Research Chemicals. Ltd.	
Shore Road Port of Heysham Industrial Park Heysham Lancashire LA3 2XY	
United Kingdom Office Tel: +44 (1) 1524 850506	
Office Fax: +44 (0) 1524 850608 Email: uktech@alfa.com	
www.alfa.com Informing department: Product safety department. 1.4 Emergency telephone number: Call Carechem 24 at +44 (0) 1865 407333 (English only); +44 (0) 1235 239670 (Multi-language)	
SECTION 2: Hazards identification	
2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008	
GHS02 flame	
Flam. Liq. 2 H225 Highly flammable liquid and vapour.	
GHS07	
Acute Tox. 4 H332 Harmful if inhaled. Eye Irrit. 2 H319 Causes serious eye irritation.	
STOT SE 3 H335 May cause respiratory irritation. Other hazards that do not result in classification No information known.	
2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labelled according to the CLP regulation.	
Hazard pictograms	
GHS02 GHS07	
Signal word Danger Hazard statements H225 Highly flammable liquid and vapour.	
H332 Harmful if inhaled. H319 Causes serious eye irritation. H335 May cause respiratory irritation.	
Precautionary statements	
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P305+P305 I+P338 IF IN EYES: Kinse cautiously with water for several minutes. Remove contact lenses, it present and easy to do. Continue rinsing. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.	
Additional information: EUH066 Repeated exposure may cause skin dryness or cracking.	
2.3 Other hazards Results of PBT and vPvB assessment	
PBT: Not applicable. vPvB: Not applicable.	
SECTION 3: Composition/information on ingredients	
3.1 Substances CAS# Designation: 108-10-1 4-Methyl-2-pentanone	
Identification number(s): EC number: 203-550-1	
Index number: 606-004-00-4	
SECTION 4: First aid measures 4.1 Description of first aid measures	
After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Seek immediate medical advice.	
Seek immediate medical advice. After skin contact Instantly 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 doctor.	
After swallowing Seek medical treatment. 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available. 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.	
	td. on page 2)

Trade name 4-Methyl-2-pentanone

rade name 4-INIETNYI-2-pentanone	(Contd. of page 1)
SECTION 5: Firefighting measures 5.1 Extinguishing media Suitable extinguishing agents CO2, sand, extinguishing powder. Do not use water. 5.2 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 5.3 Advice for firefighters Protective equipment: Wear self-contained breathing apparatus. Wear full protective suit.	
 SECTION 6: Accidental release measures 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Keep away from ignition sources 6.2 Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. 6.3 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). Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation. Prevention of secondary hazards: Keep away from ignition sources. 6.4 Reference to other sections See Section 7 for information on safe handling See Section 13 for information on disposal.	
SECTION 7: Handling and storage 7.1 Precautions for safe handling Keep containers tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion 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 - Do not smoke. 7.2 Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and containers: Store in cool location. Information about storage in one common storage facility: Store away from oxidising agents. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. 7.3 Specific end use(s) No further relevant information available.	
SECTION 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. 8.1 Control parameters Components with critical values that require monitoring at the workplace: 108-10-1 4-Methyl-2-pentanone (100.0%) WEL () Short-term value: 416 mg/m³, 100 ppm	
Long-term value: 208 mg/m³, 50 ppm Sk, BMGV Ingredients with biological limit values: 108-10-1 4-Methyl-2-pentanone (100.0%) BMGV () 20 µmol/L Medium: urine Sampling time: post shift Parameter: 4-methylpentan-2-one	
Additional information: No data 8.2 Exposure controls Personal protective equipment General protective and hygienic measures The usual precautionary measures should be adhered to in handling the chemicals. Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work. Avoid contact with the eyes. Avoid contact with the eyes. Avoid contact with the eyes and skin. Breathing equipment: Use breathing protection with high concentrations. Recommended filter device for short term use: Use a respirator with organic vapor/acid gas cartridges as a backup to engineering controls. Risk assessment should be performed to determir respirators are appropriate. Only use equipment tested and approved under appropriate government standards such as NIOSH (USA) or CEN Protection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to r Material of gloves Butyl rubber, BR Penetration time of glove material (in minutes) Not determined Eye protection: Safety glasses Face protection: Protection. Protection. Protection. Protection. Protection. Protection: Protection. Protection: Protection. Protection: Protection. Protection: Protection: Protection. Protection: Protection: Protection. Protection. Protection: Protection. Protection. Protection: Protection. Protection. Protection: Protection. Protect	(EU).
SECTION 9: Physical and chemical properties 9.1 Information on basic physical and chemical properties General Information Appearance: Form: Liquid Colour: Colourless	
	(Contd. on page 3) GB

Trade name 4-Methyl-2-pentanone

Smell:	(Contd. of pag		
Odour threshold:	Nild Not determined.		
pH-value:	Not determined.		
Change in condition	94.90		
Melting point/Melting range: Boiling point/Boiling range:	-84 °C 117-118 °C		
Sublimation temperature / start:	Not determined		
Flash point: Inflammability (solid, gaseous)	14 °C Not applicable.		
Ignition temperature:	460 °C		
Decomposition temperature: Self-inflammability:	Not determined Not determined.		
	Product is not explosive. However, formation of explosive air/steam mixtures is possible.		
Critical values for explosion:			
Lower: Upper:	1.7 Vol % 9 Vol %		
Steam pressure at 20 °C:	21 hPa		
Density at 20 °C Relative density	0.801 g/cm ³ Not determined.		
Vapour density	Not determined.		
Solubility in / Miscibility with	Not determined.		
Water at 20 °C: Partition coefficient (n-octanol/water):	19 g/l Not determined		
Viscosity:			
dynamic at 20 °C:	0.59 mPas Not determined.		
9.2 Other information	No further relevant information available.		
SECTION 10: Stability and reactive	ity		
10.1 Reactivity No information known.	commonded storage conditions		
10.2 Chemical stability Stable under rec Thermal decomposition / conditions to	b be avoided: No decomposition if used and stored according to specifications.		
10.3 Possibility of hazardous reactions	 be avoided: No decomposition if used and stored according to specifications. s No dangerous reactions known 		
10.4 Conditions to avoid No further rele 10.5 Incompatible materials: Oxidising	agents		
10.6 Hazardous decomposition produce	ctš: Carbon monoxide and carbon dioxide		
SECTION 11: Toxicological inform	nation		
11.1 Information on toxicological effec			
Acute toxicity:			
Harmful if inhaled. The Registry of Toxic Effects of Chemica	I Substances (RTECS) contains acute toxicity data for components in this product.		
LD/LC50 values that are relevant for cl			
Oral LD50 2080 mg/kg (rat)			
Eye irritation or corrosion: Causes seri	exposure may cause skin dryness or cracking. ious eye irritation.		
Sensitization: No sensitizing effect known			
Germ cell mutagenicity: No effects known. Carcinogenicity:			
EPA-I: Data are inadequate for an assessment of human carcinogenic potential.			
EPA-I: Data are inadequate for an assessment of human carcinogenic potential. ACGIH A3: Animal carcinogen: Agent is carcinogenic in experimental animals at a relatively high dose, by route(s) of administration, at site(s), of histologic type(s), or by mechanism(s) not considered relevant to worker exposure. Available epidemologic studies do not confirm an increased risk of cancer in expos			
numans. Available evidence suggests th	at the agent is not likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure Foxic Effects of Chemical Substances (RTECS) contains reproductive data for this substance.		
Specific target organ system toxicity -	repeated exposure: No effects known.		
Specific target organ system toxicity -	single exposure: May cause respiratory irritation.		
Aspiration hazard No effects known			
Subacute to chronic toxicity: No effects	s known.		
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Trade name 4-Methyl-2-pentanone			
	(Contd. of page 3)		
14.2 UN proper shipping name ADR	1245 METHYL ISOBUTYL KETONE		
IMDG, IATA	METHYL ISOBUTYL KETONE		
14.3 Transport hazard class(es)			
ADR			
Class	3 (F1) Flammable liquids. 3		
Label IMDG, IATA	3		
Class	3 Flammable liquids.		
Label Realized ensure	3		
Packing group ADR, IMDG, IATA	П		
14.5 Environmental hazards:	Not applicable.		
14.6 Special precautions for user Kemler Number:	Warning: Flammable liquids. 33		
EMS Number:	F-E,S-D		
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IE Code	Not applicable.		
Transport/Additional information:			
ADR Excepted quantities (EQ):	E2		
Limited quantities (LQ) Transport category	1L 2		
Tunnel restriction code	D/E		
UN "Model Regulation":	UN1245, METHYL ISOBUTYL KETONE, 3, II		
SECTION 15: Regulatory information 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Australian Inventory of Chemical Substances Substance is listed. Standard for the Uniform Scheduling of Drugs and Poisons			
108-10-1 4-Methyl-2-pentanone National regulations	S5		
Information about limitation of use:			
Employment restrictions concerning young persons must be observed. For use only by technically qualified individuals.			
Classification according to VbF: A I Technical instructions (air):			
Class Share in %			
NK 100.0			
Water hazard class: Water hazard class 1 (Assessment by list): slightly hazardous for water. Other regulations, limitations and prohibitive regulations ELINCS (European List of Notified Chemical Substances) Substance is not listed. 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.			
Annex XIV of the REACH Regulations (requiring Authorisation for use) S 15.2 Chemical safety assessment: A Chemical Safety Assessment has not	Substance is not listed. been carried out.		
SECTION 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 produc not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.			
Department issuing SDS: Global Marketing Department Abbreviations and acronyms:			
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de f	er (Regulations Concerning the International Transport of Dangerous Goods by Rail)		
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			
ICAO: International Civil Aviation Organization ADR: Accorde uropéen 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 IATA: International Maritime Code for Dangerous Goods by Road) IATA: International Maritime Code for Dangerous Goods IATA: International Astracts Service (division of the American Chemical Society) VbF: Verordnung über brennbare Flüssigkeiten, Osterreich (Ordinance on the storage of combustible liquids, Austria) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent LD50: Lethal dose, 50 percent CASE: International Safety and Health Administration (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IATP: International Agency for Research on Cancer			
CAS: Chemical Abstracts Sérvice (division of the American Chemical Society) VbF: Verordnung über brennbare Flüssigkeiten, Österreich (Ordinance on the storage of combustible liquids, Austria)			
Loso: Lethal concentration, so percent LD50: Lethal dose, 50 percent vPVB: 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)			
IARC: International Agency for Research on Cancer			

EPA: Environmental Protection Agency (USA)

GB