

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Revision: 04.01.2011

Printing date 04.01.2011

**1 Identification of the substance/mixture and of the company/undertaking**

**Product identifier**  
Trade name **2-Pentadecanone**  
Stock number: L09347  
EINECS Number: 219-064-8  
Relevant identified uses of the substance or mixture and uses advised against  
Sector of Use SU24 Scientific research and development

**Details of the supplier of the safety data sheet**  
Manufacturer/Supplier: Alfa Aesar GmbH & Co.KG  
Benzstrasse 3  
D-76185 Karlsruhe / Germany  
E-mail: gcat@matthey.com  
www.alfa-chemcat.com

Informing department: Product safety department.  
Emergency telephone number: Giftnotruf Universität Mainz / Poison Information Center Mainz  
www.giftinfo.uni-mainz.de Telefon:+49(0)6131/19240

**2 Hazards identification**

**Classification of the substance or mixture**  
Classification according to Regulation (EC) No 1272/2008 The substance is not classified according to the CLP regulation.

**Classification according to Directive 67/548/EEC or Directive 1999/45/EC** void

**Information concerning particular hazards for human and environment:** Not applicable

**Label elements**  
Labelling according to Regulation (EC) No 1272/2008 Void  
Hazard pictograms Void  
Signal word Void  
Hazard statements Void  
Other hazards  
Results of PBT and vPvB assessment  
PBT: Not applicable.  
vPvB: Not applicable.

**3 Composition/information on ingredients**

**Chemical characterization: Substances (CAS#) Designation:** 2-Pentadecanone (CAS# 2345-28-0): 100%  
**Identification number(s):**  
EINECS Number: 219-064-8

**4 First aid measures**

**Description of first aid measures**  
**After inhalation** Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.  
**After skin contact** Seek immediate medical advice.  
Instantly wash with water and soap and rinse thoroughly.  
**After eye contact** Seek immediate medical advice.  
**After swallowing** Rinse opened eye for several minutes under running water. Then consult doctor.  
Seek medical treatment.

**5 Firefighting measures**

**Extinguishing media**  
**Suitable extinguishing agents** CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.  
**Special hazards arising from the substance or mixture** Can be released in case of fire:  
Carbon monoxide and carbon dioxide

**Advice for firefighters**  
**Protective equipment:** Wear self-contained breathing apparatus.  
Wear full protective 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 material to be released to the environment without proper governmental permits.

**Methods and material for containment and cleaning up:** Collect mechanically.  
**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 information on disposal.

**7 Handling and storage**

**Handling**  
**Precautions for safe handling** Keep containers tightly sealed.  
Store in cool, dry place in tightly closed containers.  
No special precautions necessary if used correctly.

**Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke.

**Conditions for safe storage, including any incompatibilities**  
**Storage**  
**Requirements to be met by storerooms and containers:** 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.

**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.

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<b>Control parameters</b> Components with critical values that require monitoring at the workplace:	Not required.
<b>Additional information:</b>	No data
<b>Exposure controls</b> <b>Personal protective equipment</b> <b>General protective and hygienic measures</b>	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. Use breathing protection with high concentrations.
<b>Breathing equipment:</b> <b>Protection of hands:</b> <b>Material of gloves</b>	Check protective gloves prior to each use for their proper condition. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. Impervious gloves
<b>Penetration time of glove material</b>	Not determined
<b>Eye protection:</b>	Safety glasses
<b>Body protection:</b>	Protective work clothing.

**9 Physical and chemical properties****Information on basic physical and chemical properties****General Information****Appearance:**

<b>Form:</b>	Solid.
<b>Colour:</b>	White
<b>Smell:</b>	Not determined
<b>Odour threshold:</b>	Not determined.

**pH-value:** Not applicable.

**Change in condition**

<b>Melting point/Melting range:</b>	39-40°C
<b>Boiling point/Boiling range:</b>	293-294°C
<b>Sublimation temperature / start:</b>	Not determined

**Flash point:** 144°C

**Inflammability (solid, gaseous)** Not determined.

**Ignition temperature:** Not determined

**Decomposition temperature:** Not determined

**Self-inflammability:** Not determined.

**Danger of explosion:** Product is not explosive.

**Critical values for explosion:**

<b>Lower:</b>	Not determined
<b>Upper:</b>	Not determined

**Steam pressure:** Not applicable.

<b>Density</b>	Not determined
<b>Relative density</b>	Not determined.
<b>Vapour density</b>	Not applicable.
<b>Evaporation rate</b>	Not applicable.

**Solubility in / Miscibility with**

**Water:** Insoluble

**Segregation coefficient (n-octanol/water):** Not determined.

**Viscosity:**

<b>dynamic:</b>	Not applicable.
<b>kinematic:</b>	Not applicable.
<b>Other information</b>	No further relevant information available.

**10 Stability and reactivity****Reactivity****Chemical stability****Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.

**Possibility of hazardous reactions** No dangerous reactions known

**Incompatible materials:** Oxidizing agents

**Hazardous decomposition products:** Carbon monoxide and carbon dioxide

**11 Toxicological information****Information on toxicological effects****Acute toxicity:****Primary irritant effect:**

**on the skin:**

May cause irritation

**on the eye:**

May cause irritation

**Sensitization:**

No sensitizing effect known.

**Additional toxicological information:**

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.  
No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

**12 Ecological information****Toxicity**

**Aquatic toxicity:** No further relevant information available.

**Persistence and degradability** No further relevant information available.

**Behaviour in environmental systems:**

**Bioaccumulative potential** No further relevant information available.

**Mobility in soil** No further relevant information available.

**Additional ecological information:****General notes:**

Generally not hazardous for water.  
Do not allow material to be released to the environment without proper governmental permits.

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

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**Other adverse effects** No further relevant information available.

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**13 Disposal considerations**

**Waste treatment methods Recommendation** Hand over to disposers of hazardous waste. Must be specially treated under adherence to official regulations. Consult state, local or national regulations for proper disposal.

**Uncleaned packagings: Recommendation:** Disposal must be made according to official regulations.

**14 Transport information**

**Land transport ADR/RID and GGVS/GGVE (cross-border/domestic) ADR/RID-GGVS/E Class:** None

**Maritime transport IMDG/GGVSea: IMDG/GGVSea Class:** None  
**Marine pollutant:** No

**Air transport ICAO-TI and IATA-DGR: ICAO/IATA Class:** None

**Special precautions for user** Not applicable.  
**Transport/Additional information: Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not dangerous according to the above specifications. Not applicable.

**15 Regulatory information**

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Labelling according to Regulation (EC) No 1272/2008** Void  
**Hazard pictograms** Void  
**Signal word** Void  
**Hazard statements** Void

**National regulations**

**Information about limitation of use:** For use only by technically qualified individuals.

**Water hazard class:** Generally not hazardous for water.

**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 Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

**Department issuing data specification sheet:** Health, Safety and Environmental Department.

**Contact:** Ryan P. Wilson  
**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)  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
ICAO: International Civil Aviation Organization  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)

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