Printing date 06.08.2010	Revision: 06.08.2010	
1 Identification of substance		
Product details		
Trade name	4-(2-Thienyl)-3-buten-2-one	
Stock number: Manufacturer/Supplier:	B25191 Alfa Aesar GmbH & Co.KG	
	Benzstrasse 3 E-mail: gcat@matthey.com D-76185 Karlsruhe / Germany www.alfa-chemcat.com	
Informing department:	Product safety department	
Emergency information:	Giftnotruf Universität Mainz / Poison Information Center Mainz www.giftinfo.uni-mainz.de Telefon:+49(0)6131/19240	
2 Hazards identification Hazard designation:	void	
Information pertaining to particular dangers for man and environment		
GHS label elements	Not applicable Void	
3 Composition/information on ingredients		
Chemical characterization:		
Designation: (CAS#)	4-(2-Thienyl)-3-buten-2-one (CAS# 874-83-9): 100%	
4 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. Rinse opened eye for several minutes under running water. Then consult doctor.	
After swallowing	Seek medical treatment.	
5 Fire fighting measures		
Suitable extinguishing agents Special hazards caused by the material, its	CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.	
products of combustion or flue gases:	Can be released in case of fire:	
	Carbon monoxide and carbon dioxide Sulphur oxides (SOx) Wear self-contained breathing apparatus.	
Protective equipment:	Wear self-contained breathing apparatus. Wear full protective suit.	
6 Accidental release measures		
Person-related safety precautions:	Wear protective equipment. Keep unprotected persons away.	
	Ensure adequate ventilation Do not allow material to be released to the environment without proper governmental permits.	
Measures for environmental protection: Measures for cleaning/collecting: Additional information:	Collect mechanically.	
	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 Information 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.	
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 and 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.	
Components with critical values that require monitoring at the workplace:	Not required.	
Additional information:	No data	
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.	
Breathing equipment:	Wash hands during breaks and at the end of the work. Use breathing protection with high concentrations.	
Protection of hands: Material of gloves	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	
material of gives	and varies from manufacturer to manufacturer. Impervious gloves	
Penetration time of glove material	Not determined	
Eye protection: Body protection:	Safety glasses Protective work clothing.	
9 Physical and chemical properties:		
General Information		
Form:	Low melting solid Yellow	
Colour:	Yellow (Contd. on page 2)	
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## Safety Data Sheet according to 1907/2006/EC, Article 31

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Trade name 4-(2-ThienyI)-3-buten-2-one		
Smell:	(Contd. of page 1) Not determined	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	22-24°C 86-88°C (1 mmHg) Not determined	
Flash point:	Not applicable	
Ignition temperature:	Not determined	
Decomposition temperature: Danger of explosion:	Not determined	
Critical values for explosion:	Product is not explosive.	
Lower: Upper:	Not determined Not determined	
Steam pressure: Density	Not determined Not determined	
Solubility in / Miscibility with Water:	Insoluble	
10 Stability and reactivity Thermal decomposition / conditions to be avoided: Materials to be avoided: Dangerous reactions: Dangerous products of decomposition:	No decomposition if used and stored according to specifications. Oxidizing agents No dangerous reactions known Carbon monoxide and carbon dioxide Sulphur oxides (SOx)	
11 Toxicological information Acute toxicity: Primary irritant effect: on the skin: on the eye: Sensitization: Additional toxicological information:	May cause irritation May cause irritation No sensitizing effect known. 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:		
Additional ecological information: General notes:	Generally not hazardous for water. Do not allow material to be released to the environment without proper governmental permits.	
13 Disposal considerations		
Product: Recommendation	Consult state, local or national regulations for proper disposal. Hand over to disposers of hazardous waste. Must be specially treated under adherence to official regulations.	
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: Marine pollutant:	None No	
Air transport ICAO-TI and IATA-DGR: ICAO/IATA Class:	None	
Transport/Additional information:	Not dangerous according to the above specifications.	
15 Regulatory information Designation according to EC guidelines:	Observe the normal safety regulations when handling chemicals The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).	
National regulations		
Information about limitation of use: Water hazard class:	For use only by technically qualified individuals. Generally not hazardous for water.	
this information to ensure proper use and prote not in conformance with this Material Safety Da	a supplement to other information gathered by them, and should make independent judgement of suitability of ct the health and safety of employees. This information is furnished without warranty, and any use of the product ta Sheet, or in combination with any other product or process, is the responsibility of the user.	
Department issuing data specification sheet Contact:	:: Health, Safety and Environmental Department. Zachariah Holt	
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: Réglement 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 CAS: Chemical Abstracts Service (division of the American Chemical Society)	