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		Safety Data Sheet according to 1907/2006/EC, Article 31		
Printing date 20.08.2010 Revision: 20.08.2010				
	<i>Identification of substance</i> Product details			
_	Product details Trade name	1-Octen-3-one		
	Stock number:	L07189		
I	Manufacturer/Supplier:	Alfa Aesar GmbH & Co.KG Benzstrasse 3 E-mail: gcat@matthey.com		
		D-76185 Karlsruhe / Germany www.alfa-chemcat.com		
	Informing department: Emergency information:	Product safety department. Giftnotruf Universität Mainz / Poison Information Center Mainz		
		www.giftinfo.uni-mainz.de Telefon:+49(0)6131/19240		
	Hazards identification			
1	Hazard designation:	Xi Irritant		
I	Information pertaining to particular dangers			
f	for man and environment	R 10 Flammable. R 36/38 Irritating to eyes and skin.		
0	GHS label elements	Warning		
		H226 - Flammable liquid and vapour.		
		Warning		
		H315 - Causes skin irritation.		
	Prevention:	H319 - Causes serious eve irritation		
	revention:	P210 Keep away from headsparks/open harnes/hot suffaces No smoking. P241 Use explosion-proof electrical/ventilating/lighting/equipment.		
1	Response:	P210 Keep away from heat/sparks/open flames/hot surfaces No smoking. P241 Use explosion-proof electrical/ventilating/lighting/equipment. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin		
		P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if		
I		present and easy to do. Continue rinsing. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.		
3	Composition/information on ingredients	3		
(Chemical characterization:			
I	Designation: (CAS#) Identification_number(s):	1-Octen-3-one (CAS# 4312-99-6): 100%		
	EINECS Number: Additonal information:	224-327-5 Stabilized with:		
		0.1% BHA (CAS# 25013-16-5)		
	First aid measures	Quarte freeh ein 16 gewind and ide estificial apprintian. Keen petiest were Operault de ter if augustance		
	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 immediaté medical advice.		
	Fire fighting measures			
	Suitable extinguishing agents For safety reasons unsuitable extinguishing	CO2, sand, extinguishing powder. Do not use water.		
	agents Special hazards caused by the material, its	Water.		
	products of combustion or flue gases:	Can be released in case of fire: Carbon monoxide and carbon dioxide		
I	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 Keep away from ignition sources Do not allow material to be released to the environment without proper governmental permits.		
	Measures for cleaning/collecting:	Absord with liquid-dinging material (sand, glatomite, acid dingers, universal dingers, sawgust).		
	Additional information:	Keep away from ignition sources. 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			
I	Handling			
	Information for safe handling:	Keep containers tightly sealed. Ensure good ventilation/exhaustion at the workplace.		
	Information about protection against explosions and fires:	Keep ignition sources away - Do not smoke.		
		Protect against electrostatic charges. Fumes can combine with air to form an explosive mixture.		
	Storage Requirements to be met by storerooms and			
	containers:	Refrigerate		
	Information about storage in one common storage facility:	Store away from strong bases.		
-	Further information about stars we	Store in the dark. Protect from heat.		
	Further information about storage			

Further information about storage conditions:

Keep container tightly sealed. Protect from the effects of light. Refrigerate

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(Contd. of page 1)				
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: Additional information:	e Not required. No data			
Personal protective equipment General protective and hygienic measures Breathing equipment: Protection of hands: Material of gloves	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 and skin. Use breathing protection with high concentrations. 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.			
Penetration time of glove material Eye protection:	Impervious gloves Not determined Safety glasses Face protection			
Body protection:	Protective work clothing.			
9 Physical and chemical properties:				
General Information				
Form: Colour: Smell:	Liquid Colourless Characteristic			
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined 166-167°C Not determined			
Flash point:	35°C			
Ignition temperature:	Not determined			
Decomposition temperature:	Not determined			
Critical values for explosion: Lower: Upper:	Not determined Not determined			
Steam pressure:	Not determined			
Density at 20°C	0.848 g/cm ³			
Solubility in / Miscibility with Water:	Not miscible or difficult to mix			
<i>10 Stability and reactivity</i> Thermal decomposition / conditions to be avoided: Stable until: Materials to be avoided:	No decomposition if used and stored according to specifications. Danger of containers bursting upon heating. Depletion of inhibitor. Oxidizing agents Heat Acids			
Dangerous reactions: Dangerous products of decomposition: Additional information:	Bases Ultraviolet radiation Free radical initiators Danger of polymerisation Spontaneous polymerisation can be caused in unstabilised product e.g. by ambient heat Carbon monoxide and carbon dioxide Unless inhibited, the product can polymerize resulting in a temperature and pressure increase that may rupture the container.			
11 Toxicological information Acute toxicity: Primary irritant effect: on the skin: on the eye: Sensitization: Additional toxicological information:	Irritant for skin and mucous membranes. Irritant effect. 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.			
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14 Transport information				
Land transport ADR/RID and GGVS/GGV	E (cross-border/domestic)			
*				
ADR/RID-GGVS/E Class:	3 (F1) Flammable liquids.			
Kemler Number: UN-Number:	30 1224			
Packaging group: Label	 3			
Designation of goods: Tunnel restriction code	1224 KETONES, LIQUID, N.O.S. (1-Octen-3-one) D/E			
Maritime transport IMDG/GGVSea:				
IMDG/GGVSea Class:	3			
UN Number: Label	1224 3			
Packaging group:	Ш.			
Marine pollutant: Correct technical name:	No KETONES, LIQUID, N.O.S. (1-Octen-3-one)			
Air transport ICAO-TI and IATA-DGR:				
*				
3				
ICAO/IATA Class:	3 1224			
UN/ID Number: Label	3			
Packaging group: Correct technical name:	III KETONES, LIQUID, N.O.S. (1-Octen-3-one)			
UN "Model Regulation":				
	UN1224, KETONES, LIQUID, N.O.S., 3, III			
15 Regulatory information				
Designation according to EC guidelines:				
Code letter and hazard designation of product:				
product	Xi Irritant			
Risk phrases:	10 Flammable.			
	36/38 Irritating to eyes and skin.			
Safety phrases:	26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 37 Wear suitable gloves.			
National regulations				
Information about limitation of use:	Employment restrictions concerning young persons must be observed. For use only by technically qualified individuals.			
Water hazard class:	Generally not hazardous for water.			
this information to ensure proper use and pr	as a supplement to other information gathered by them, and should make independent judgement of suitability of rotect the health and safety of employees. This information is furnished without warranty, and any use of the product Data Sheet, or in combination with any other product or process, is the responsibility of the user.			
	eet: Health, Safety and Environmental Department.			
Contact: Abbreviations and acronyms:	Zachariah Holt 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 Departure 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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