Revision: 05.03.2013

SECTION 1: Identification of the subs	tance/mixture and of the company/undertaking			
1.1 Product identifier				
Trade name Stock number:	<b>1-Dodecanol</b> A12228, L04154			
CAS Number: EC number:	112-53-8 203-982-0			
1.2 Relevant identified uses of the substant	ce			
or mixture and uses advised against. Identified use:	No further relevant information available. SU24 Scientific research and development			
1.3 Details of the supplier of the safety data Manufacturer/Supplier:	a sheet			
Manufacturer/Supplier:	Alfa Aesar GmbH & Co.KG A Johnson Matthey Company			
	Zeppelinstr. 7b			
	76185 Karlsruhe / Germany Tel: +49 (0) 721 84007 280			
	Tel: +49 (0) 721 84007 280 Fax: +49 (0) 721 84007 300 Email: tech@alfa.com			
Informing department:	www.alfa.com			
1.4 Emergency telephone number:	Product safety Tel + +049 (0) 7275 988687-0 Carechem 24: +44 (o) 1235 239 670 (Multi-language emergency number) Poison Information Center Mainz			
	www.giftinfo.uni-mainz.de Telephone: +49(0)6131/19240			
SECTION 2: Hazards identification				
2.1 Classification of the substance or mixtu				
Classification according to Regulation (EC	) No 1272/2008			
GHS09 environment				
Aquatic Acute 1 H400 Very toxic to aquatic	c life.			
Aquatic Chronic 1 H410 Very toxic to aquatic				
GHS07				
$\checkmark$				
Skin Irrit. 2 H315 Causes skin irritation Eye Irrit. 2 H319 Causes serious eye				
Classification according to Directive 67/548				
Xi; Irritant				
R36/38: Irritating to eyes and skin.				
N; Dangerous for the environment				
R50/53: Very toxic to aquatic organisms, main information concerning particular bazards	ay cause long-term adverse effects in the aquatic environment.			
for human and environment:	Not applicable			
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 Signal word	GHS07, GHS09 Warning			
Hazard statements	H315 Causes skin irritation			
	H319 Causes serious eye irritation. H410 Very toxic to aquatic life with long lasting effects. P280 Wear protective gloves/protective clothing/eye protection/face protection. D305 (D364) D328 IE IN EVES : Binor exiter with water for exceed minutes. Between explored langes, if			
Precautionary statements	FOUDTFOD ITFOD IF IN ETED. KINSE CAULOUSIV WILL WALELIOL SEVERALITIITULES. REITOVE CONACLIENSES. II			
	Present and easy to do. Continue rinsing. P302+P352 IF ON SKIN: Wash with plenty of soap and water.			
	P321 Specific treatment (see on this label)			
	P362 Take off contaminated clothing and wash before reuse. P501 Dispose of contents/container in accordance with local/regional/national/international			
2.3 Other hazards	regulations.			
Results of PBT and vPvB assessment	Net applicable			
PBT: vPvB:	Not applicable. Not applicable.			
SECTION 3: Composition/information	on ingredients			
3.1 Substances				
CAS# Designation: Identification number(s):	112-53-8 1-Dodecanol			
EC number:	203-982-0			
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.			
After skin contact	Seek immediate medical advice. Instantly wash with water and soap and rinse thoroughly.			
	Seek immediate medical advice.			
After eye contact After swallowing	Rinse opened eye for several minutes under running water. Then consult doctor. 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.			
· · · · · · · · · · · · · · · · · · ·				
SECTION 5: Firefighting measures				
5.1 Extinguishing media Suitable extinguishing agents	CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.			
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			
	(Contd. on page 2) DE/E			

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de name 1-Dodecanol		
5.3 Advice for firefighters		(Contd. of pag
Protective equipment:	Wear self-contained breathing apparatus.	
	Wear full protective suit.	
SECTION 6: Accidental release measu	res	
6.1 Personal precautions, protective		
equipment and emergency procedures	Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation	
6.2 Environmental precautions:	Do not allow material to be released to the environment without proper governmental permi	its.
	Do not allow product to reach sewage system or water bodies.	
6.3 Methods and material for containment		
and cleaning up: Prevention of secondary hazards:	Collect mechanically. No special measures required.	
6.4 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.	
SECTION 7: Handling and storage	Keen and her was that the event of	
7.1 Precautions for safe handling	Keep containers tightly sealed. Store in cool, dry place in tightly closed containers.	
Information about protoction against	Ensure good ventilation/exhaustion at the workplace.	
Information about protection against explosions and fires:	No information known.	
7.2 Conditions for safe storage, including a		
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.	
7.3 Specific end use(s)	No further relevant information available.	
SECTION 8: Exposure controls/person	nal protection	
Additional information about design of		
technical systems:	Properly operating chemical fume hood designed for hazardous chemicals and having an a	verage face velo
8.1 Control parameters	of at least 100 feet per minute.	
Components with critical values that requir	e monitoring at the workplace:	
112-53-8 1-Dodecanol (100,0%)		
AGW (Germany) 155 mg/m <sup>3</sup> , 20 ppm 1(I):AGS		
Additional information:	No data	
8.2 Exposure controls		
Personal protective equipment	The usual precautionary measures should be adhered to in handling the chemicals	
General protective and hygienic measures	The usual precautionary measures should be adhered to in handling the chemicals. Keep away from foodstuffs, beverages and food.	
General protective equipment General protective and hygienic measures	Keep away from foodstuffs, beverages and food.	
General protective equipment General protective and hygienic measures	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 eves and skin	
General protective and hygienic measures	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 eves and skin	
Breathing equipment: Personal protective equipment General protective and hygienic measures	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. Maintain an ergonomically appropriate working environment. Use breathing protection with high concentrations. Check protective dows prior to each use for their proper condition	or morely of quali
General protective and hygienic measures Breathing equipment:	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. Maintain an ergonomically appropriate working environment. Use breathing protection with high concentrations.	er marks of quali
General protective and hygienic measures Breathing equipment: Protection of hands: Material of gloves	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. Maintain an ergonomically appropriate working environment. 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 furth and varies from manufacturer to manufacturer. Impervious gloves	er marks of quali
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General protective and hygienic measures Breathing equipment: Protection of hands: Material of gloves Penetration time of glove material Eye protection:	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. Maintain an ergonomically appropriate working environment. 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 furth and varies from manufacturer to manufacturer. Impervious gloves Not determined Safety glasses Face protection	er marks of quali
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General protective and hygienic measures Breathing equipment: Protection of hands: Material of gloves Penetration time of glove material Eye protection: Body protection: Body protection: SECTION 9: Physical and chemical pro 9.1 Information on basic physical and chem General Information Appearance: Form: Colour: Smell: Odour threshold: pH-value: Change in condition Melting point/Boiling range: Boiling point/Boiling range: Sublimation temperature / start: Flash point: Inflammability (solid, gaseous) Ignition temperature: Self-inflammability: Critical values for explosion: Lower: Upper: Steam pressure: Density at 20 °C Relative density	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. Maintain an ergonomically appropriate working environment. 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 furth and varies from manufacturer to manufacturer. Impervious gloves Not determined Safety glasses Face protection Protective work clothing. <b>operties</b> <b>ical properties</b> Crystalline White Alcohol-like Not determined. Not applicable. 24-27 °C Not determined 127 °C Not determined Not determined. Not determined.	er marks of qualit
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Trade name 1-Dodecanol			
Solubility in / Miscibility with	(Contd. of page 2)		
Water: Partition coefficient (n-octanol/water): Viscosity:	Not determined Not determined.		
dynamic: kinematic: 9.2 Other information	Not applicable. Not applicable. No further relevant information available.		
9.2 Other Information			
SECTION 10: Stability and reactivity			
10.1 Reactivity 10.2 Chemical stability Thermal decomposition / conditions to be	No information known. Stable under recommended storage conditions.		
avoided: 10.3 Possibility of hazardous reactions	No decomposition if used and stored according to specifications. Reacts with strong oxidizing agents		
10.5 Incompatible materials: 10.6 Hazardous decomposition products:	Oxidizing agents Carbon monoxide and carbon dioxide		
SECTION 11: Toxicological information			
11.1 Information on toxicological effects Acute toxicity:	The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for components in this product.		
LD/LC50 values that are relevant for classification:	No data		
Skin irritation or corrosion: Eye irritation or corrosion:	Causes skin irritation.		
Sénsitization: Germ cell mutagenicity:	No sensitizing effect known. No effects known.		
Carcinogenicity: Reproductive toxicity:	The Registry of Toxic Effects of Chemical Substances (RTECS) contains tumorigenic and/or carcinogenic and/ or neoplastic data for this product. No effects known.		
Specific target organ system toxicity - repeated exposure:	No effects known.		
Specific target organ system toxicity - single exposure: Aspiration hazard:	No effects known. No effects known.		
Additional toxicological information:	To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.		
SECTION 12: Ecological information			
12.1 Toxicity Aquatic toxicity: 12.2 Persistence and degradability	No further relevant information available. No further relevant information available.		
12.3 Bioaccumulative potential 12.4 Mobility in soil	No further relevant information available. No further relevant information available.		
Ecotoxical effects: Remark: Additional ecological information:	Very toxic for fish		
General notes:	Do not allow product to reach ground water, water bodies or sewage system. Do not allow material to be released to the environment without proper governmental permits. Water hazard class 2 (Self-assessment): hazardous for water. Danger to drinking water if even small quantities leak into soil. Also poisonous for fish and plankton in water bodies. May cause long lasting harmful effects to aquatic life. Avoid transfer into the environment		
	Water nazard class 2 (Self-assessment): nazardous for water. Danger to drinking water if even small quantities leak into soil. Also poisonous for fish and plankton in water bodies		
12.5 Results of PBT and vPvB assessment PBT:	Very toxic for aquatic organisms		
vPvB: 12.6 Other adverse effects	Not applicable. Not applicable. No further relevant information available.		
SECTION 13: Disposal considerations			
13.1 Waste treatment methods Recommendation	Hand over to disposers of hazardous waste.		
	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.		
SECTION 14: Transport information			
UN-Number ADR, IMDG, IATA	UN3077		
14.2 UN proper shipping name ADR	3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (1-		
IMDG, IATA	Dodecanol) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (1- Dodecanol)		
14.3 Transport hazard class(es) ADR			
,			
Class	9 (M7) Miscellaneous dangerous substances and articles.		
Label IMDG	9		
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Class	9 Miscellaneous dangerous substances and articles.		
	(Contd. on page 4) DE/E		

DE/E

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Γrade name 1-Dodecanol				
		(Contd. of page 3)		
Label IATA		9		
Class Label		9 Miscellaneous dangerous substances and articles. 9		
Packing group ADR, IMDG, IATA		111		
14.5 Environmental hazards: Special marking (ADR): Special marking (IATA):		Symbol (fish and tree) Symbol (fish and tree)		
14.6 Special precautions for user Kemler Number:		Warning: Miscellaneous dangerous substances and articles. 90		
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.				
Transport/Additional information:				
ADR Excepted quantities (EQ): Limited quantities (LQ)		E1 5 kg		
UN "Model Regulation":		UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (1-Dodecanol), 9, III		
SECTION 15: Regulatory information 15.1 Safety, health and environmental regula	ationa/logiclation apositio for	the substance or mixture		
Australian Inventory of Chemical Substances	Substance is listed.			
Standard for the Uniform Scheduling of				
Drugs and Poisons National regulations	Substance is not listed.			
Information about limitation of use:	Employment restrictions conc For use only by technically qu	erning young persons must be observed. Jalified individuals.		
Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water. Other regulations, limitations and prohibitive regulations ELINCS (European List of Notified Chemical				
Substances)	Substance is not listed.			
Substances of very high concern (SVHC) according to REACH, Article 57 REACH - Pre-registered substances 15.2 Chemical safety assessment:	Substance is not listed. Substance is listed. A Chemical Safety Assessme	ant has not 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 data specification sheet Abbreviations and acronyms:	t: Health, Safety and Environmed ADR: Accord européen sur le transport Dangerous Goods by Road) IMDG: International Maritime Code for IATA: International Air Transport Assoc GHS: Globally Harmonized System of EINECS: European Inventory of Existir CAS: Chemical Abstracts Service (divis LC50: Lethal concentration, 50 percent LD50: Lethal concentration, 50 percent	ental Department. I des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods Jation Classification and Labelling of Chemicals Ig Commercial Chemical Substances Sion of the American Chemical Substances		