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1 Identification of substance		
Product details		
Trade name	2,2-Dimethyltetrahydrofuran	
Stock number:	A19903	
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 information:	Giftnotru Universität Mainz / Poison Information Center Mainz www.giftinfo.uni-mainz.de Telefon:+49(0)6131/19240	
	www.giftinfo.uni-mainz.de Telefon:+49(0)6131/19240	
2 Hazards identification		
Hazard designation:	A	
hazara doolghadom	F Highly flammable	
Information pertaining to particular dangers		
for man and environment	R 11 Highly flammable.	
GHS label elements	Danger	
Prevention:	H224 - Extremely flammable liquid and vapour.	
r revention.	P240 Ground/bond container and receiving equipment.	
	H224 - Extremely flammable liquid and vapour. P210 Keep away from heat/sparks/open flames/hot surfaces No smoking. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/equipment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P280 Wear 521 E ON SkIN (or hair): Pamoyo Take off immediately all contaminated clothing. Pince skin	
Response:	F 303+F 301+F 333 IF ON SKIN (01 Hall). Kellove/Take on infineulately all containinated clothing. Kinse skin	
Disposal:	with water/shower. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.	
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3 Composition/information on ingredients		
Chemical characterization: Designation: (CAS#)	2,2-Dimethyltetrahydrofuran (CAS# 1003-17-4): 100%	
Designation: (CA3#)		
4 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.	
After skin contact	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 immediate medical advice.	
5 Fire fighting measures		
Suitable extinguishing agents	Use carbon dioxide, extinguishing powder or foam. Water may be ineffective but may be used for cooling	
	exposed containers.	
Special hazards caused by the material, its products of combustion or flue gases:	Can be released in case of fire:	
Brotoctivo oquinmont:	Carbon monoxide and carbon dioxide Wear self-contained breathing apparatus.	
Protective equipment:	Wear full protective suit.	
6 Accidental release measures		
	Wear protective equipment. Keep unprotected persons away.	
Person-related safety precautions:	Ensure adequate ventilation	
Measures for environmental protection:	Keep away from ignition sources Do not allow material to be released to the environment without proper governmental permits.	
Measures for cleaning/collecting:	Absorb with liguid-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
	Ensure adequate ventilation.	
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 starses		
7 Handling and storage		
Handling Information for safe handling:	Keep containers tightly sealed.	
	Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.	
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:	Store in cool location.	
Information about storage in one common		
storage facility:	Store away from oxidizing agents. Protect from heat.	
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	
Components with artifical values that require	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.	
	(Contd. on page 2) GB	

Revision: 22.07.2010

	Nevision. 22.07.2010
Trade name 2,2-Dimethyltetrahydrofurar	1
Breathing equipment: Protection of hands: Material of gloves Eye protection: Body protection:	(Contd. of page 1) 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. Safety glasses Face protection Protective work clothing.
9 Physical and chemical properties:	
General Information	
Form: Smell:	Liquid Not determined
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined Not determined Not determined
Flash point:	Not determined
Ignition temperature: Decomposition temperature:	Not determined Not determined
Critical values for explosion: Lower: Upper:	Not determined Not determined Not determined
Steam pressure:	Not determined
Density	Not determined
10 Stability and reactivity Thermal decomposition / conditions to be avoided: Materials to be avoided:	No decomposition if used and stored according to specifications. Oxidizing agents Heat
Dangerous reactions: Dangerous products of decomposition:	No dangerous reactions known Carbon monoxide and carbon dioxide
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:	Water hazard class 1 (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. 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 (o	cross-border/domestic)
ADR/RID-GGVS/E Class: Kemler Number: UN-Number: Packaging group: Label Designation of goods: Limited quantities (LQ) Transport category Tunnel restriction code	3 (F1) Flammable liquids. 33 3271 II 3 3271 ETHERS, N.O.S. (2,2-Dimethyltetrahydrofuran) LQ4 2 D/E
Maritime transport IMDG/GGVSea:	
UN Number: Label Packaging group: Marine pollutant:	3 3271 3 II No (Contd. on page 3)
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rade name 2,2-Dimethyltetrahydrofuran	
	(Contd. of page 2
Correct technical name:	ETHERS, N.O.S. (2,2-Dimethyltetrahydrofuran)
Air transport ICAO-TI and IATA-DGR:	
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ICAO/IATA Class: UN/ID Number:	3 3271
Label Packaging group:	3
Correct technical name:	ETHERS, N.O.S. (2,2-Dimethyltetrahydrofuran)
UN "Model Regulation":	UN3271, ETHERS, N.O.S., 3, II
15 Regulatory information	
Designation according to EC guidelines:	
Code letter and hazard designation of product:	F Highly flammable
Risk phrases:	11 Highly flammable.
Safety phrases:	7 Keep container tightly closed. 33 Take precautionary measures against static discharges. 60 This material and its container must be disposed of as hazardous waste.
National regulations	
Information about limitation of use:	For use only by technically qualified individuals. Employment restrictions concerning young persons must be observed.
Water hazard class:	Water hazard class 1 (Self-assessment): slightly hazardous for water.
	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. <b>neet:</b> Health, Safety and Environmental Department.  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: 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-TI: Technical Instructions by the "International Air Viation Organization" (ICAO) GHS: Globally Harmonized System of Classification and Labelling of Chemicals CAS: Chemical Abstracts Service (division of the American Chemical Society)