Printing date 02.07.2013	Revision: 07	7.11.2011	
SECTION 1: Identification of the subst	ance/mixture and of the company/undertaking		
1.1 Product identifier			
Trade name Stock number:	6-Methoxy-2-naphthylmagnesium bromide, 0.5M in THF H54076		
1.2 Relevant identified uses of the substance Identified use:	se or mixture and uses advised against. SU24 Scientific research and development		
1.3 Details of the supplier of the safety data	sheet Alfa Aesar GmbH & Co.KG		
Manufacturer/Supplier:	A Johnson Matthey Company		
	Zeppelinstr. 7b 76185 Karlsruhe / Germany		
	76185 Karlsruhe / Germany Tel: +49 (0) 721 84007 280 Fax: +49 (0) 721 84007 300 Email: tech@alfa.com		
	WWW alta com		
Informing department: 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 Cénter Mainz www.giftinfo.uni-mainz.de Telephone: +49(0)6131/19240		
SECTION 2: Hazards identification	g		
2.1 Classification of the substance or mixtu	re		
Classification according to Regulation (EC)			
GHS02 flame			
Flam, Liq, 2 H225 Highly flammable liquid a	nd vapour.		
GHS08 health hazard			
Carc. 2 H351 Suspected of causing car	nçer.		
GHS05 corrosion			
Skin Corr. 1B H314 Causes severe skin burn	s and eye damage.		
GHS07			
STOT SE 3 H335 May cause respiratory irri	tation		
Classification according to Directive 67/548			
C; Corrosive R34: Causes burns.			
F; Highly flammable			
R14-19: Reacts violently with water. May for			
Information concerning particular hazards for human and environment:	The product has to be labelled due to the calculation procedure of the "General Classification guideline preparations of the EU" in the latest valid version.	e for	
Other hazards that do not result in			
classification 2.2 Label elements	No information known.		
Labelling according to Regulation (EC) No	The product is classified and labelled according to the CLD regulation		
1272/2008 Hazard pictograms	The product is classified and labelled according to the CLP regulation. GHS02, GHS05, GHS07, GHS08		
Signal word Hazard-determining components of	Danger		
labelling:	Tetrahydrofuran		
Hazard statements	6-Methoxy-2-naphthylmagnesium bromide H225 Highly flammable liquid and vapour.		
	H314 Causes severe skin burns and eye damage. H351 Suspected of causing cancer.		
Precautionary statements	H335 May cause respiratory irritation. H335 May cause respiratory irritation. P210 Keep away from heat/sparks/open flames/hot surfaces No smoking. P241 Use explosion-proof electrical/ventilating/lighting/equipment. P303+P361+P353 IF ON SKIN (or bair): Remove/Take off immediately all contaminated clothing. Rins		
	i coor correction of the contraction of the contrac	e skin	
	with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lense		
	present and easy to do. Continue rinsing. P405 Store locked up.	· ·	
Additional information:	P501 Dispose of contents/container in accordance with local/regional/national/internation regulations. EUH014 Reacts violently with water.	al	
2.3 Other hazards	EUH019 May form explosive peroxides.		
Results of PBT and vPvB assessment PBT: 	Not applicable.		
vPvB:	Not applicable.		
SECTION 3: Composition/information 3.2 Mixtures	on ingredients		
Dangerous components:		96.00/	
CAS: 109-99-9 Tetrahydrofuran EINECS: 203-726-8	• F R11	86,0%	
	Carc. 2, H351;	-	
CAS: 38046-82-1 6-Methoxy-2-naphthylma		14,0%	
R14_	Skin Corr 1B H314	-	
Additional information	None known.	DE/E	

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(Contd. of page 1)

Trade name 6-Methoxy-2-naphthylmagnesium bromide, 0.5M in THF

	(Conta. of page 1)		
SECTION 4: First aid measures			
4.1 Description of first aid measures General information	Instantly remove any clothing soiled by the product.		
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. 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 For safety reasons unsuitable extinguishing	CO2, sand, extinguishing powder. Do not use water.		
agents 5.2 Special hazards arising from the	Water.		
substance or mixture	Reacts violently with water If this product is involved in a fire, the following can be released:		
	Carbon monoxide and carbon dioxide		
	Hydrogen bromide (HBr) Metal oxide		
5.3 Advice for firefighters Protective equipment:	Wear self-contained breathing apparatus.		
	Wear full protective suit.		
SECTION 6: Accidental release measure	es		
6.1 Personal precautions, protective equipment and emergency procedures	Wear protective equipment. Keep unprotected persons away.		
- 1	Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Keep away from ignition sources		
6.2 Environmental precautions:	Do not allow material to be released to the environment without proper governmental permits.		
6.3 Methods and material for containment	Do not allow product to reach sewage system or water bodies. Do not allow to enter the ground/soil.		
and cleaning up:	Keep away from ignition sources. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).		
	Use neutralizing agent. Dispose of contaminated material as waste according to item 13.		
Prevention of secondary hazards:	Do not flush with water or aqueous cleansing agents Keep away from ignition sources.		
6.4 Reference to other sections	Do not flush with water or aqueous cleansing agents 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.		
	See Section 13 for information on disposal.		
SECTION 7: Handling and storage			
7.1 Precautions for safe handling	Handle under dry protective gas. Keep containers tightly sealed.		
	Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace.		
Information about protection against	Open and handle container with care.		
explosions and fires:	Protect against electrostatic charges. Fumes can combine with air to form an explosive mixture.		
	Do not distill to dryness.		
7.2 Conditions for safe storage, including an	Explosive peroxides may form, handle container cautiously. v incompatibilities		
Storage Requirements to be met by storerooms and			
containers: Information about storage in one common	Store in cool location.		
storage facility:	Store away from oxidizing agents. Do not store together with acids.		
	Store away from air.		
Further information about storage	Store away from air. Store away from water.		
conditions:	Store under dry inert gas.		
	This product is moisture sensitive. This product is air sensitive.		
	Protect from humidity and keep away from water. Store in cool, dry conditions in well sealed containers.		
	Store in a locked cabinet or with access restricted to technical experts or their assistants.		
7.3 Specific end use(s)	Check container pressure periodically to prevent explosive peroxides. No further relevant information available.		
Additional information about design of	SECTION 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.		
8.1 Control parameters			
Components with critical values that require monitoring at the workplace:			
109-99-9 Tetrahydrofuran (86,0%) AGW (Germany) 150 mg/m ³ , 50 ppm			
2(I);DFG, ÉU, H, Y PEL (USA) 590 mg/m ³ , 200 ppm			
	(Contd. on page 3) DE/E		

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REL (USA) Short-term value: 735 mg/m², 250 ppm TLY (USA) Long-term value: 737 mg/m², 50 ppm Non Improducts with biological limit values: Tormal processing of the second secon	Frade name 6-Methoxy-2-naphthylmagnesium bromide, 0.5M in THF		
TUV (USA) Short error value: 225 mpm ² , 500 ppm Short Ingredients with biological link values: 109-99 of technydrofuran (BG/96) BG/W (Germany) Technydrofuran (BG/96) BG/W (Germany) Technydrofuran (BG/96) BG/W (Germany) Technydrofuran BE (USA) 2 Engale end of shift Technydrofuran S2 Espaces controls Market and protective and hygienic measures Free section of shift Technydrofuran Bereath protective and hygienic measures Free section of shift Technydrofuran Bereath gequipment: Protective and hygienic measures Free section of hands: Breathing oquipment: Protection of hands: Breathing oquipment: Protection of hands: Breathing oquipment: Protection of hands: Body protection: Bereath inter of gloves Bereathing oquipment: Protection of hands: Body protection: Bereath inter of gloves Bereathing oquipment: Protection of hands: Body protection: Bereath inter of gloves Bereathing oquipment: Protective work cloning. Body protection: Bereathing oquipment: Protective work cloning. Body protection: Bereath inter of gloves Bereathing oquipment: Protective work cloning. Bereathing oquipment: Protective work cloning. Body protection: Bereathing bereation the of gloves and the fermical properties Body protection: Bereathing protection: Bereathing protection: Bereath inter of gloves Bereath inter of gloves Bere	ntd. of page 2		
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109-99-3 Tetrahydrofuran (66,0%) BGW (Germany) BGW (Germany) Construction BE (USA) Zangt Bit (USA) Bit (USA) Zangt Bit (USA) Zangt Bit (USA) Bit (USA) Zangt Bit (USA)			
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BEI (USA) 2 mgt intervention Additional information: No data 3.2 Exposure controls Personal protective and hygienic measures: No data 3.2 Exposure controls Personal protective and hygienic measures: The usual precaulionary measures should be achiered to in handling the chemicals. Keep away from foodsliffs; beverages and food instantly remove any solid and impregnated gaments. Watch hands during breaks and at the end of the work, Data and a strain an ergonomically appropriate working environment. Watch hands: Breakhing equipment: Use breaking protection with hip cyss and strain. Watch and regroom manufacture to manufacture. The selection of hands: Breakhing equipment: Use breaking protection with hip cyss and strain. The selection of hands: Breakhing equipment: Use breaking protection with hip cyss and strain. The selection of the suitable gloves does not only depend on the material, but also on further marks and variate from numafacture to manufacture. Wold determined. Body protection: Full lace protection Forther work dowing. SECTION 9: Physical and chemical properties General Information Appearance: Full lace protection Forther work dowing. Strain formation on basis physical and chemical properties General Information on basis physical and chemical properties General Information and the suitable gloves does not only depend on the material, but determined. Dolour brashold: Offour: Not determined. Offour: Not determined. Offour:			
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Inflammability (solid, gaseous) Not applicable. Ignition temperature: 230°C (est) Decomposition temperature: Not determined Self-inflammability: Product is not selfigniting. Danger of explosion: May form explosive peroxides. Lower: 1.5 Vol % Upper: 12.0 Vol % Steam pressure at 20°C: 200 hPa Density Not determined Vapour density Not determined. Vapour density Not determined. Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water): Not determined. Viscosity: Not determined. Solubility in / manic: Not determined. kinematic: Not determined. Solubility in / Miscibility with Reacts violently Variantic: Not determined. Kinematic: Not determined. Solubility in / Miscibility and reactivity Not determined. Solids content: 9.0 % Organic solvents: 86.0 % Solids content: 14.0 % 9.2 Other information No further relevant information available.			
Critical values for explosion: Do not distill to dryness. Lower: 1,5 Vol % Upper: 12,0 Vol % Steam pressure at 20 °C: 200 hPa Density Not determined. Relative density Not determined. Vapour density Not determined. Evaporation rate Not determined. Solubility in / Miscibility with Reacts violently Water: Reacts violently Partition coefficient (n-octanol/water): Not determined. Viscosity: dynamic: dynamic: Not determined. Solvent content: 0% Solids content: 86,0 % Solids content: 14,0 % 9.2 Other information No further relevant information available. SECTION 10: Stability and reactivity Reacts violently with water. May form explosive peroxides. May form explosive peroxides.			
Critical values for explosion: 1,5 Vol % Lower: 1,5 Vol % Upper: 12,0 Vol % Steam pressure at 20 °C: 200 hPa Density Not determined Relative density Not determined. Vapour density Not determined. Vapour density Not determined. Vapour density Not determined. Viscosity: Not determined. Viscosity: Reacts violently Viscosity: Not determined. Organic solvents: 86,0 % Solids content: 14,0 % 9.2 Other information No further relevant information available. SECTION 10: Stability and reactivity Reacts violently with water. 10.1 Reactivity Reacts violently with water. May form explosive peroxides. Nay form explosive peroxides.			
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Solids content: 14,0 % 9.2 Other information No further relevant information available. SECTION 10: Stability and reactivity Reacts violently with water. 10.1 Reactivity Reacts violently with water. May form explosive peroxides.			
9.2 Other information No further relevant information available. SECTION 10: Stability and reactivity Reacts violently with water. 10.1 Reactivity Reacts violently with water. May form explosive peroxides. May form explosive peroxides.			
10.1 Reactivity Reacts violently with water. May form explosive peroxides.			
May form explosive peroxides.			
10.2 Chemical stability Stable under recommended storage conditions.			
avoided: No decomposition if used and stored according to specifications. 10.3 Possibility of hazardous reactions Reacts violently with water			
10.5 Possibility of nazardous reactions Forms peroxides 10.5 Incompatible materials: Acids			
Air			
Oxidizing agents Acid chlorides Water/moisture 10.6 Hazardous decomposition products: Hydrogen bromide Metal oxide	DE/E		

(Contd. of page 3)

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Trade name 6-Methoxy-2-naphthylmagnesium bromide, 0.5M in THF

		(contat. of page 5)	
	SECTION 11: Toxicological information		
		Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.	
	LD/LC50 values that are relevant for classification		
	109-99-9 Tetrahydrofuran Oral LD50 1650 mg/kg (rat)		
	Inhalative LC50/2H 72000 mg/m3/2H (rat)		
	Eye irritation or corrosion: Sensitization: Germ cell mutagenicity: Carcinogenicity:	Causes severe skin burns. Causes serious eye damage. No sensitizing effect known. No effects known. No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA	
	Reproductive toxicity: Specific target organ system toxicity - repeated exposure: Specific target organ system toxicity - single exposure: Aspiration hazard: Additional toxicological information:	or ACGIH. No effects known. No effects known. No effects known. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version: Corrosive	
_	SECTION 12: Ecological information		
SECTION 12: Ecological information 12.1 Toxicity Aquatic toxicity: 12.2 Persistence and degradability 12.3 Bioaccumulative potential 12.4 Mobility in soil Additional ecological information:		No further relevant information available. No further relevant information available. No further relevant information available. No further relevant information available.	
		Do not allow material to be released to the environment without proper governmental permits. 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. Avoid transfer into the environment.	
	vPvB:	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. Must be specially treated under adherence to official regulations. Consult state, local or national regulations for proper disposal.	
	Uncleaned packagings:	Disposal must be made according to official regulations.	
	SECTION 14: Transport information		
	ADR, IMDG, IATA	UN2924	
	14.2 UN proper shipping name ADR IMDG, IATA	2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (6-Methoxy-2- naphthylmagnesium bromide, TETRAHYDROFURAN) FLAMMABLE LIQUID, CORROSIVE, N.O.S. (6-Methoxy-2-naphthylmagnesium	
		bromide, TETRAHYDŔOFURAN)	
	14.3 Transport hazard class(es) ADR		
	Class Label IMDG, IATA	3 (FC) Flammable liquids. 3+8	
	Class Label	3 Flammable liquids. 3+8	
	Packing group ADR, IMDG, IATA	II	
	14.5 Environmental hazards: Marine pollutant:	No	
	14.6 Special precautions for user Kemler Number: EMS Number:	Warning: Flammable liquids. 338 F-E,S-C	
	14.7 Transport in bulk according to Annex II o Code	of MARPOL73/78 and the IBC Not applicable.	
	Transport/Additional information:	·····	
	ADR Excepted quantities (EQ): Limited quantities (LQ) Transport category Tunnel restriction code	E2 1L 2 D/E	
		(Contd. on page 5)	

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Trade name 6-Methoxy-2-naphthyImagnesium bromide, 0.5M in THF			
	(Contd. of page		
UN "Model Regulation":	UN2924, FLAMMABLE LIQUID, CORROSIVE, N.O.S. (6-Methoxy-2- naphthylmagnesium bromide, TETRAHYDROFURAN), 3 (8), II		
SECTION 15: Regulatory information	n		
	gulations/legislation specific for the substance or mixture		
Australian Inventory of Chemical Substa			
109-99-9 Tetrahydrofuran			
Standard for the Uniform Scheduling of Drugs and Poisons			
None of the ingredients is listed.			
National regulations Information about limitation of use:	For use only by technically qualified individuals		
information about limitation of use:	For use only by technically qualified individuals. Employment restrictions concerning young persons must be observed.		
Classification according to VbF:	A I		
Technical instructions (air):	Class Share in %		
	NK 86,0		
Water hazard class:	Water hazard class 1 (Self-assessment): slightly hazardous for water.		
Other regulations, limitations and prohib	itive regulations		
ELINCS (European List of Notified Chem	ical Substances)		
None of the ingredients is listed.			
Substances of very high concern (SVHC) according to REACH, Article 57		
None of the ingredients are listed.			
REACH - Pre-registered substances			
109-99-9 Tetrahydrofuran			
15.2 Chemical safety assessment:	A Chemical Safety Assessment 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 this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any u not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.			
Relevant phrases	H225 Highly flammable liguid and vapour.		
	H228 Flämmable solid. H314 Causes severe skin burns and eye damage.		
	H314 Causes service skin burns and eye damage. H319 Causes services ever irritation.		
	H335 May cause respirátory irritation.		
	H351 Suspected of causing cancer.		
	R11 Highly flammable. R14 Reacts violently with water.		
	R19 May form explosive peroxides.		
	R34 Caúses burns.		
	R36/37 Irritating to eyes and respiratory system. R40 Limited evidence of a carcinogenic effect.		
Department issuing data specification sh	neet: Health, Safety and Environmental Department.		
Abbreviations and acronyms:	RID: Reglement international concernant le transport des marchandises dangereuses par chemin de ter (Regulations Concerning the Internationa Transport of Dangerous Goods by Rail)		
	 R40 Limited evidence of a Carcinogenic effect. Reat: Health, Safety and Environmental Department. RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organization ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Raad) IMDG: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals VbF: Verordnung über brennbare Flüssikelten, Osterreich (Ordinance on the storage of combustible liquids. Austria) 		
	Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods		
	IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals		
	VbF: Verordnung über brennbare Flüssigkeiten, Österreich (Ordinance on the storage of combustible liquids, Austria) LC50: Lethal concentration, 50 percent		
	LD50: Lethal dose, 50 percent		