Printing date 02.07.2013	Revision: 17	7.05.2012
SECTION 1: Identification of the substa	ance/mixture and of the company/undertaking	
1.1 Product identifier Trade name	4-MethoxyphenyImagnesium bromide, 0.25M in THF	
Stock number:	H55397	
1.2 Relevant identified uses of the substance Identified use:	SU24 Scientific research and development	
1.3 Details of the supplier of the safety data Manufacturer/Supplier:	Alfa Aesar GmbH & Co.KG	
	A Johnson Matthey Company Zeppelinstr. 7b	
	76185 Karlsruhe / Germany	
	Tel: +49 (0) 721 84007 300 Fax: +49 (0) 721 84007 300 Email: tech@alfa.com	
Informing department:	WWW alta 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	
	www.giftinfo.uni-mainz.de Telephone: +49(0)6131/19240	
SECTION 2: Hazards identification		
2.1 Classification of the substance or mixtur Classification according to Regulation (EC)		
GHS02 flame		
\bigtriangledown		
Flam, Liq, 2 H225 Highly flammable liquid ar	ιμ ναμομι.	
GHS08 health hazard		
Carc. 2 H351 Suspected of causing can	içer.	
GHS05 corrosion		
\checkmark		
Skin Corr. 1B H314 Causes severe skin burns	s and eye damage.	
GHS07		
STOT SE 3 H335 May cause respiratory irrit		
Classification according to Directive 67/548/	EEC or Directive 1999/45/EC	
Xi; Irritant		
F; Highly flammable		
R11: Highly flammable. R14-19: Reacts violently with water. May forr		
R14-19: Reacts violently with water. May forr Information concerning particular hazards for human and environment:		for
	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.	: 101
Other hazards that do not result in classification	No information known.	
2.2 Label elements Labelling according to Regulation (EC) No		
1272/2008	The product is classified and labelled according to the CLP regulation. GHS02, GHS05, GHS07, GHS08	
Hazard pictograms Signal word	Danger	
Hazard-determining components of labelling:	Tetrahydrofuran	
Hazard statements	4-Methoxyphenylmagnesium 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. 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 hair): Remove/Take off immediately all contaminated clothing. Rinse	e skin
	with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lense	
	P405 present and easy to do. Continue rinsing. Store locked up.	ŕ
	P501 Dispose of contents/container in accordance with local/regional/national/international regulations.	al
Additional information:	EUH014 Reacts violently with water. EUH019 May form explosive peroxides.	
2.3 Other hazards Results of PBT and vPvB assessment		
PBT: VPVB:	Not applicable. Not applicable.	
SECTION 3: Composition/information of 3.2 Mixtures	on ingreaients	
Dangerous components:		
CAS: 109-99-9 Tetrahydrofuran EINECS: 203-726-8 Xn R40; Xi R36/37; [∎ F R11	93,5%
R19	Carc. 2, H351: 1 Eve Irrit. 2, H319: STOT SF 3, H335	
CAS: 13139-86-1 4-Methoxyphenylmagnesi	um bromide	6,5%
R14	m. Sol. 1, H228; 🚸 Skin Corr. 1B, H314	-
j w Fiani. Liq. 2, ⊓225; Fla	(Contd. c	on page 2) DE/E

Trade name 4-Methoxyphenylmagnesium bromide, 0.25M in THF

rade name 4-metricxypricitymagnesiam		
Additional information	None known.	(Contd. of page 1)
SECTION 4: First aid measures 4.1 Description of first aid measures General information After inhalation	Instantly remove any clothing soiled by the product. Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if spersist.	symptoms
After skin contact After eye contact After swallowing 4.2 Most important symptoms and effects, both acute and delayed 4.3 Indication of any immediate medical attention and special treatment needed	Seek immediate medical advice. Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice. Rinse opened eye for several minutes under running water. Then consult doctor. Seek medical treatment. No further relevant information available. No further relevant information available.	
SECTION 5: Firefighting measures 5.1 Extinguishing media Suitable extinguishing agents For safety reasons unsuitable extinguishing agents 5.2 Special hazards arising from the substance or mixture 5.3 Advice for firefighters	In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water. Water. 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	
Protective equipment:	Wear self-contained breathing apparatus. Wear full protective suit.	
SECTION 6: Accidental release measure 6.1 Personal precautions, protective equipment and emergency procedures 6.2 Environmental 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. Do not allow product to reach sewage system or water bodies. Do not allow to enter the ground/soil.	
6.3 Methods and material for containment and cleaning up: Prevention of secondary hazards: 6.4 Reference to other sections	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. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents Keep away from ignition sources. See Section 7 for information on personal protection equipment. 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 explosions and fires:	Open and handle container with care. Protect against electrostatic charges. Fumes can combine with air to form an explosive mixture. Do not distill to dryness. Explosive peroxides may form, handle container cautiously.	
7.2 Conditions for safe storage, including an Storage	y incompatibilities	
Requirements to be met by storerooms and containers: Information about storage in one common storage facility:	Store in cool location. Store away from air. Store away from water. Do not store together with acids. Store away from oxidizing agents.	
Further information about storage 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. Avoid contact with air / oxygen (formation of peroxide). Store in a locked cabinet or with access restricted to technical experts or their assistants. Check container pressure periodically to prevent explosive peroxides.	
7.3 Specific end use(s)	No further relevant information available.	
SECTION 8: Exposure controls/persona Additional information about design of technical systems:	I protection Properly operating chemical fume hood designed for hazardous chemicals and having an aver of at least 100 feet per minute.	age face velocity
8.1 Control parameters Components with critical values that require	monitoring at the workplace:	
109-99-9 Tetrahydrofuran (93,5%) AGW (Germany) 150 mg/m³,50 ppm 2(I);DFG, EU, H, Y	monitoring at the workplace.	
		(Contd. on page 3)

(Contd. on page 3) DE/E

Safety data sheet according to 1907/2006/EC, Article 31

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Trade name 4-Methoxyphenylmagnesium bromide, 0.25M in THF (Contd. of page 2) PEL (USA) 590 mg/m³, 200 ppm Short-term value: 735 mg/m³, 250 ppm Long-term value: 590 mg/m³, 200 ppm Short-term value: 295 mg/m³, 100 ppm Long-term value: 147 mg/m³, 50 ppm Skin REL (USA) TLV (USA) Ingredients with biological limit values: 109-99-9 Tetrahydrofuran (93,5%) BGW (Germany) 2 mg/l b Tetrahydrofuran 2 mg/L urine end of shift BEI (USA) Tetrahydrofuran Additional information: No data 8.2 Exposure controls 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. Wash hands during breaks and at the end of the work. Do not inhale dust / smoke / mist. 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 further marks of quality and varies from manufacturer to manufacturer. Impervious gloves Breathing equipment: Protection of hands: Material of gloves Penetration time of glove material Impervious gloves Not determined Tightly sealed safety glasses. Full face protection Protective work clothing. Eye protection: **Body protection:** SECTION 9: Physical and chemical properties 9.1 Information on basic physical and chemical properties **General Information** Appearance: Form: Colour: Liquid Brown Smell: Not determined Odour threshold: Not determined. pH-value: Not determined Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Not determined Not determined Not determined Flash point -20 °C Inflammability (solid, gaseous) Ignition temperature: Decomposition temperature: Not determined. 230 °C Not determined ecomposition temperature: Product is not selfigniting. Self-inflammability May form explosive peroxides. Do not distill to dryness. Danger of explosion: Critical values for explosion: Lower: Upper: Steam pressure at 20 °C: Density at 20 °C Relative density Vapour density 1,5 Vol % 12,0 Vol % 200 hPa 0,955 g/cm³ Not determined. Evaporation rate Solubility in / Miscibility with Not determined. Water: Partition coefficient (n-octanol/water): Vișcosity: Reacts violently Not determined. dynamic: Not determined. Not determined kinematic Solvent content: Organic solvents: 87,0 % Solids content: 9.2 Other information 13,0 % No further relevant information available SECTION 10: Stability and reactivity Reacts violently with water. May form explosive peroxides. Stable under recommended storage conditions. 10.1 Reactivity 10.2 Chemical stability Thermal decomposition / conditions to be No decomposition if used and stored according to specifications. avoided: 10.3 Possibility of hazardous reactions Reacts with strong oxidizing agents Reacts violently with water Forms peroxidés 10.5 Incompatible materials: Acids Air Oxidizing agents Water/moisture Carbon monoxide and carbon dioxide 10.6 Hazardous decomposition products: Hydrogen bromide

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	Metal oxide (Contd. of pa
SECTION 11: Toxicological information	
SECTION 11: Toxicological information 11.1 Information on toxicological effects Acute toxicity:	Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach. The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for component this product.
D/LC50 values that are relevant for classific	
I 09-99-9 Tetrahydrofuran Dral LD50 1650 mg/kg (rat)	
nhalative LC50/2H 72000 mg/m3/2H (rat) Skin irritation or corrosion:	Causes severe skin burns.
Sensitization:	Causes serious eye damage. No sensitizing effect known.
Germ cell mutagenicity:	The Registry of Toxic Effects of Chemical Substances (RTECS) contains mutation data for components in t
Carcinogenicity: Reproductive toxicity:	product. ACGIH A3: Animal carcinogen: Agent is carcinogenic in experimental animals at a relatively high dose, by route(s) of administration, at site(s), of histologic type(s), or by mechanism(s) not considered relevant to wo exposure. Available epidemologic studies do not confirm an increased risk of cancer in exposed humans. Available evidence suggests that the agent is not likely to cause cancer in humans except under uncommo unlikely routes or levels of exposure. The Registry of Toxic Effects of Chemical Substances (RTECS) contains tumorigenic and/or carcinogenic a or neoplastic data for this product. The Registry of Toxic Effects of Chemical Substances (RTECS) contains reproductive data for components this product.
Specific target organ system toxicity - repeated exposure:	No effects known.
Specific target organ system toxicity - single	May cause respiratory irritation.
exposure: Aspiration hazard: Experience with humans:	No effects known. The Registry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for
Experience with numans: Additional toxicological information:	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 Classificat Guidelines for Preparations as issued in the latest version: Corrosive Irritant
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.
General notes:	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 syste Avoid transfer into the environment.
12.5 Results of PBT and vPvB assessment PBT: 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. 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	UN2924
14.2 UN proper shipping name	
ADR IMDG, IATA	2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (4- Methoxyphenylmagnesium bromide, TETRAHYDROFURAN) FLAMMABLE LIQUID, CORROSIVE, N.O.S. (4-Methoxyphenylmagnesium bromide, TETRAHYDROFURAN)
14.3 Transport hazard class(es)	bromide, TETRAHYDŔOFURAN)
ADR	
Class Label	3 (FC) Flammable liquids. 3+8
IMDG, IATA	
Class Label	3 Flammable liquids. 3+8
Packing group ADR, IMDG, IATA	II.
14.5 Environmental hazards:	
Marine pollutant:	No

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Trade name 4-MethoxyphenyImagnesium bromide, 0.25M in THF

	(Contd. of page 4)
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 of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
ADR Excepted quantities (EQ): Limited quantities (LQ) Transport category Tunnel restriction code	E2 1L 2 D/E
UN "Model Regulation":	UN2924, FLAMMABLE LIQUID, CORROSIVE, N.O.S. (4- Methoxyphenylmagnesium bromide, TETRAHYDROFURAN), 3 (8), II

SECTION 15: Regulatory information

SECTION 15: Regulatory information	
15.1 Safety, health and environmental regulation	tions/legislation specific for the substance or mixture
Australian Inventory of Chemical Substances	
109-99-9 Tetrahydrofuran	
Standard for the Uniform Scheduling of Drug	s and Poisons
None of the ingredients is listed.	
National regulations	
Information about limitation of use:	For use only by technically qualified individuals.
Classification according to VbF:	Employment réstrictions concerning young persons must be observed. A l
Technical instructions (air):	Class Share in %
	NK 93,5
Water hazard class:	Water hazard class 1 (Self-assessment): slightly hazardous for water.
Other regulations, limitations and prohibitive	
ELINCS (European List of Notified Chemical None of the ingredients is listed.	Substances)
0	
Substances of very high concern (SVHC) acc	ording to REACH, Article 57
None of the ingredients are listed.	
REACH - Pre-registered substances	
All ingredients are listed.	
All ingredients are listed. 15.2 Chemical safety assessment:	A Chemical Safety Assessment has not been carried out.
15.2 Chemical safety assessment: SECTION 16: Other information	
15.2 Chemical safety assessment: SECTION 16: Other information Employers should use this information only as a this information to ensure proper use and protec not in conformance with this Material Safety Dat	supplement to other information gathered by them, and should make independent judgement of suitability of the health and safety of employees. This information is furnished without warranty, and any use of the product a Sheet, or in combination with any other product or process, is the responsibility of the user.
15.2 Chemical safety assessment: SECTION 16: Other information	supplement to other information gathered by them, and should make independent judgement of suitability of the health and safety of employees. This information is furnished without warranty, and any use of the product a Sheet, or in combination with any other product or process, is the responsibility of the user. H225 Highly flammable liguid and vapour.
15.2 Chemical safety assessment: SECTION 16: Other information Employers should use this information only as a this information to ensure proper use and protec not in conformance with this Material Safety Dat	supplement to other information gathered by them, and should make independent judgement of suitability of t the health and safety of employees. This information is furnished without warranty, and any use of the product a Sheet, or in combination with any other product or process, is the responsibility of the user. H225 Highly flammable liquid and vapour. H228 Flammable solid. H314 Causes severe skin burns and eye damage.
15.2 Chemical safety assessment: SECTION 16: Other information Employers should use this information only as a this information to ensure proper use and protec not in conformance with this Material Safety Dat	supplement to other information gathered by them, and should make independent judgement of suitability of t the health and safety of employees. This information is furnished without warranty, and any use of the product a Sheet, or in combination with any other product or process, is the responsibility of the user. H225 Highly flammable liquid and vapour. H228 Flammable solid. H314 Causes severe skin burns and eye damage. H319 Causes serious eve irritation.
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15.2 Chemical safety assessment: SECTION 16: Other information Employers should use this information only as a this information to ensure proper use and protec not in conformance with this Material Safety Dat	supplement to other information gathered by them, and should make independent judgement of suitability of t the health and safety of employees. This information is furnished without warranty, and any use of the product a Sheet, or in combination with any other product or process, is the responsibility of the user. H225 Highly flammable liquid and vapour. H228 Flammable solid. H314 Causes severe skin burns and eye damage. H319 Causes serious eye irritation. H325 May cause respiratory irritation. H335 May cause respiratory accer. R11 Highly flammable. R14 Reacts violently with water. R19 May form explosive peroxides. R34 Causes burns.
15.2 Chemical safety assessment: SECTION 16: Other information Employers should use this information only as a this information to ensure proper use and protec not in conformance with this Material Safety Dat	supplement to other information gathered by them, and should make independent judgement of suitability of t the health and safety of employees. This information is furnished without warranty, and any use of the product a Sheet, or in combination with any other product or process, is the responsibility of the user. H225 Highly flammable liquid and vapour. H228 Flammable solid. H314 Causes severe skin burns and eye damage. H319 Causes serious eye irritation. H325 May cause respiratory irritation. H335 May cause respiratory accer. R11 Highly flammable. R14 Reacts violently with water. R19 May form explosive peroxides. R34 Causes burns.
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15.2 Chemical safety assessment: SECTION 16: Other information Employers should use this information only as a this information to ensure proper use and protec not in conformance with this Material Safety Dat Relevant phrases	supplement to other information gathered by them, and should make independent judgement of suitability of t the health and safety of employees. This information is furnished without warranty, and any use of the product a Sheet, or in combination with any other product or process, is the responsibility of the user. H225 Highly flammable liquid and vapour. H228 Flammable solid. H314 Causes severe skin burns and eye damage. H319 Causes serious eye irritation. H325 May cause respiratory irritation. H335 May cause respiratory accer. R11 Highly flammable. R14 Reacts violently with water. R19 May form explosive peroxides. R34 Causes burns.