

	· · ·	Revision: 10.06.2014	
SECTION 1: Identification of the substance/mixture and of the company/undertaking			
	1.1 Product identifier		
		Magnesium acetate tetrahydrate	
	Stock number: CAS Number:	36358 16674-78-5	
	EC number:	205-554-9	
	1.2 Relevant identified uses of the substance Identified use:	or mixture and uses advised against. SU24 Scientific research and development	
	1.3 Details of the supplier of the safety data sheet		
	Manufacturer/Supplier:	Alfa Aesar GmbH & Co.KG	
		A Johnson Matthey Company Zeppelinstr. 7b	
		76185 Karlsruhe / Germany Tel: +49 (0) 721 84007 280 Fax: +49 (0) 721 84007 300	
		Fax: +49 (0) 721 84007 300	
		Email: tech@alfa.com www.alfa.com	
	Informing department: 1.4 Emergency telephone number:	Product safety Tel + +049 (0) 7275 988687-0	
	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 mixture		
	Classification according to Regulation (EC) No 1272/2008	The substance is not classified as hazardous to health or the environment according to the CLP regulation.	
-	Classification according to Directive 67/548/	N	
	EEC or Directive 1999/45/EC Information concerning particular hazards	Not applicable	
	for human and environment:	No information known.	
_	Other hazards that do not result in classification	No information known.	
	2.2 Label elements		
	Labelling according to Regulation (EC) No 1272/2008	Not applicable	
	Hazard pictograms	Not applicable Not applicable	
		Not applicable Not applicable	
	2.3 Other hazards Results of PBT and vPvB assessment		
	PBT:	Not applicable.	
	vPvB:	Not applicable.	
	SECTION 3: Composition/information on ingredients		
	3.1 Substances	16674-78-5 Magnesium acetate tetrahydrate	
	Identification number(s):	16674-78-5 Magnesium acetate tetrahydrate	
	EC number:	205-554-9	
	SECTION 4: First aid measures		
	4.1 Description of first aid measures After inhalation	Supply fresh air. If required provide artificial respiration. Keen nation to are a feature if a marting a	
		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.	
		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		
	·····	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		
		If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide	
		Magnesium oxide	
	Protective equipment:	Wear self-contained breathing apparatus.	
		Wear full protective suit.	
	SECTION 6: Accidental release measures		
	6.1 Personal precautions, protective	Wear protective equipment. Keep upprotected persons every	
		Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation	
	6.2 Environmental precautions:	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	<u> </u>	
	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.	
		See Section 13 for information on disposal.	
	SECTION 7: Handling and storage		
		Handle under dry protective gas.	
	<b>J</b>	Keep containers tightly sealed.	
		Keep containers tightly sealed. (Contd. on page 2)	

le name <i>Magnesium acetate tetrahyd</i>	rate
	Store in cool, dry place in tightly closed containers. (Contd. of page
nformation about protection against explosions and fires:	No information known.
7.2 Conditions for safe storage, including an	
Requirements to be met by storerooms and	
ontainers:	No special requirements.
nformation about storage in one common storage facility:	Store away from water.
Further information about storage	Store away from oxidising agents.
conditions:	Store under dry inert gas. This product is hygroscopic. Keep container tightly sealed.
	Keep container tightly sealed.
	Store in cool, dry conditions in well sealed containers. Protect from humidity and keep away from water.
7.3 Specific end use(s)	No further relevant information available.
SECTION 8: Exposure controls/persona	al protection
Additional information about design of echnical systems:	Properly operating chemical fume hood designed for hazardous chemicals and having an average face velo
	of at least 100 feet per minute.
3.1 Control parameters Components with critical values that require	
nonitoring at the workplace:	The product does not contain any relevant quantities of materials with critical values that have to be monito at the workplace.
Additional information:	No data
3.2 Exposure controls Personal protective equipment	
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.
	Maintain an ergonomically appropriate working environment.
Breathing equipment: Protection of hands:	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 qua
laterial of gloves	and varies from manufacturer to manufacturer. Impervious gloves
Penetration time of glove material	Not determined Safety glasses
Body protection:	Safety glasses Protective work clothing.
9.1 Information on basic physical and chemi General Information Appearance: Form-	
General Information	Crystalline Odourless Not determined.
General Information Appearance: Form: Smell: Ddour threshold: DH-value:	Crystalline Odourless
General Information Appearance: Form: Smell: Ddour threshold: Ddour threshold: H-value: Change in condition	Crystalline Odourless Not determined.
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General Information Appearance: Form: Form: Smell: Ddour threshold: DH-value: Change in condition Melting point/Melting range: Sublimation temperature / start: Inflammability (solid, gaseous) gnition temperature: Decomposition temperature: Decomposition	Crystalline Odourless Not determined. Not applicable. 80 °C Not determined Not determined Not determined Not determined. Not determined. Not determined. Not determined. Not determined Not determined Not determined. Not determined. Not determined. Not determined. Not determined. Not applicable. 1,454 g/cm <sup>3</sup> Not determined. Not applicable. Not applicable. No further relevant information available.
General Information Appearance: Form: Smell: Ddour threshold: DH-value: Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: nflammability (solid, gaseous) gnition temperature: Decomposition temperature: Decomposition temperature: Self-inflammability: Danger of explosion: Critical values for explosion: Lower: Upper: Steam pressure: Density at 20 °C Relative density /apour density /apour density /apour density /apour density /apour density /apour density /apour density Section rate Solubility in / Miscibility with Water at 15 °C: Dartition coefficient (n-octanol/water): /iscosity: dynamic: kinematic: D: 2 Other information SECTION 10: Stability and reactivity 10.1 Reactivity 10.2 Chemical stability Chermal decomposition / conditions to be avoided:	Crystalline Odourless Not determined.   Not applicable.   80 °C Not determined Not determined Not determined   Not determined Not determined   Not determined.   Not determined.   Not determined.   Not applicable.   1,454 g/cm <sup>3</sup> Not determined.   Not applicable.   1200 g/l   Not determined.   Not applicable.   Not applicable.   Not applicable.   Not applicable.   Not applicable.   No information known.   Stable under recommended storage conditions.   No decomposition if used and stored according to specifications
General Information Appearance: Form: Smell: Ddour threshold: DH-value: Change in condition Melting point/Melting range: Sublimation temperature / start: nflammability (solid, gaseous) gnition temperature: Decomposition temperature: Decomposition temperature: Decomposition temperature: Self-inflammability: Danger of explosion: Critical values for explosion: Lower: Upper: Density at 20 °C Relative density /apour density /	Crystalline Odourless Not determined.   Not applicable.   80 °C Not determined   Not determined.   Not applicable.   Not applicable.   Not applicable.   Not applicable.   Not applicable.   Not applicable.   No information known.   Stable under recommended storage conditions.   No decomposition if used and stored according to specifications.   Reacts with strong oxidizing agents
General Information Appearance: Form: Form: Smell: Ddour threshold: DH-value: Change in condition Melting point/Melting range: Sublimation temperature / start: Inflammability (solid, gaseous) gnition temperature: Decomposition temperature: Self-inflammability: Danger of explosion: Critical values for explosion: Lower: Upper: Steam pressure: Density at 20 °C Relative density Vapour density Vapour density Vapour density Vapour density Vapour density Vapour density Colubility in / Miscibility with Water at 15 °C: Partition coefficient (n-octanol/water): //iscosity: dynamic: kinematic: D-2 Other information SECTION 10: Stability and reactivity 0.1 Reactivity 0.2 Chemical stability Chermal decomposition / conditions to be voided: 0.3 Possibility of hazardous reactions 0.5 Incompatible materials:	Crystalline Odourless Not determined.   Not applicable.   80 °C   Not determined   Not determined.   Not determined.   Not applicable.   1/454 g/cm <sup>3</sup> Not determined.   Not applicable.   1/200 g/l   Not determined.   Not applicable.   Not pricable.   Not pricable.   No further relevant information available.   No information known.   Stable under recommended storage conditions.   No decomposition if used and stored according to specifications.   Reacts with strong oxidizing agents   Carbon monoxide and carbon dioxide
General Information Appearance: Form: Form: Smell: Ddour threshold: DH-value: Change in condition Melting point/Melting range: Sublimation temperature / start: Inflammability (solid, gaseous) gnition temperature: Decomposition temperature: Self-inflammability: Danger of explosion: Critical values for explosion: Lower: Upper: Steam pressure: Density at 20 °C Relative density /apour density	Crystalline Gdourless Not determined. Not applicable. 80 °C Not determined Not determined Not determined Not determined Not determined. Not determined. Not determined. Not determined. Not determined. Not determined. Not determined. Not applicable. 1200 g/l Not determined. Not applicable. Not information known. Stable under recommended storage conditions. No decomposition if used and stored according to specifications. Reacts with storog oxidizing agents Water/moisture Oxidising agents Carbon monoxide and carbon dioxide Magnesium oxide
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General Information Appearance: Form: Smell: Ddour threshold: DH-value: Change in condition Melting point/Melting range: Boiling point/Melting range: Sublimation temperature / start: nflammability (solid, gaseous) gnition temperature: Decomposition temperature: Decomposition temperature: Self-inflammability: Danger of explosion: Critical values for explosion: Lower: Upper: Density at 20 °C Relative density Vapour density Vapour density Vapour density Vapour density Vapour density Vapour density Seconficient (n-octanol/water): Viscosity: dynamic: kinematic: D.2 Other information SECTION 10: Stability and reactivity 10.1 Reactivity 10.2 Chemical stability Thermal decomposition / conditions to be avoided: 10.3 Possibility of hazardous reactions 10.5 Incompatible materials: 10.6 Hazardous decomposition products: SECTION 11: Toxicological information 11.1 Information on toxicological effects Acute toxicity: Lot/LC50 values that are relevant for	Crystalline Godurless Not determined. Not applicable. 90 °C Not determined Not determined Not determined. Not determined. Not determined. Not determined. Not determined. Not determined. Not determined. Not determined. Not determined. Not applicable. 1200 g/l Not determined. Not applicable. 1200 g/l Not determined. Not applicable. 1200 g/l Not determined. Not applicable. Not unther relevant information available. No further relevant information available. No further relevant information available. No further relevant information available. No further relevant information destrong econditions. No decomposition if used and stored according to specifications. Reacts with strong oxidizing agents Water/moisture Oxidising agents Carbon monoxide and carbon dioxide Magnesium oxide

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Trade name <i>Magnesium acetate tetrahydrate</i>		
Sensitization: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity: Specific target organ system toxicity - repeated exposure: Specific target organ system toxicity - single exposure:	(Contd. of page 2) No sensitizing effect known. No effects known. No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. No effects known. No effects known.	
Aspiration hazard: Subacute to chronic toxicity: Additional toxicological information:	No effects known. No effects known. 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 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: 12.5 Results of PBT and vPvB assessment	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.	
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.	
Uncleaned packagings: Recommendation:	Consult state, local or national regulations for proper disposal. Disposal must be made according to official regulations.	
SECTION 14: Transport information		
UN-Number ADR, ADN, IMDG, IATA	Not applicable	
14.2 UN proper shipping name ADR, ADN, IMDG, IATA	Not applicable	
14.3 Transport hazard class(es)		
ADR, ADN, IMDG, IATA Class	Not applicable	
Packing group ADR, IMDG, IATA	Not applicable	
14.5 Environmental hazards:	Not applicable.	
14.6 Special precautions for user	Not applicable.	
14.7 Transport in bulk according to Annex II Code	Not applicable.	
UN "Model Regulation":	-	
SECTION 15: Regulatory information		
Australian Inventory of Chemical	tions/legislation specific for the substance or mixture	
Substances Standard for the Uniform Scheduling of Medicines and Poisons	Substance is listed.	
National regulations Information about limitation of use: Water hazard class:	For use only by technically qualified individuals. Water hazard class 1 (Self-assessment): slightly hazardous for water.	
Other regulations, limitations and prohibitive ELINCS (European List of Notified Chemical Substances)	Substance is not listed.	
Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. REACH - Pre-registered substances 15.2 Chemical safety assessment:	Substance is not listed. Substance is listed. A Chemical Safety Assessment has not been carried out.	
this information to ensure proper use and protect 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.	
Department issuing SDS: Abbreviations and acronyms:	Health, Safety and Environmental Department. ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent	

LCS0: Lethal concentration, 50 percent LDS0: Lethal concentration, 50 percent VP/B: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)