Printing date 01.07.2013	Revision: 12.02.2007				
SECTION 1: Identification of the subst	ance/mixture and of the company/undertaking				
1.1 Product identifier Trade name Stock number: CAS Number: EC number: 1.2 Relevant identified uses of the substanc Identified use: 1.3 Details of the supplier of the safety data	Ammonium hydrogen sulfate 14485 7803-63-6 232-265-5 e or mixture and uses advised against. SU24 Scientific research and development				
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 Email: tech@alfa.com 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)	re No 1272/2008				
GHS05 corrosion Skin Corr. 1B H314 Causes severe skin burns	s and eye damage.				
🔁 C; Corrosive	Classification according to Directive 67/548/EEC or Directive 1999/45/EC				
R34: Causes burns. Information concerning particular hazards for human and environment: Other hazards that do not result in classification	Not applicable No information known.				
2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 Hazard pictograms Signal word Hazard statements Precautionary statements	The substance is classified and labelled according to the CLP regulation. GHS05 Danger H314 Causes severe skin burns and eye damage. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin				
	P303+P361+P353 IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.				
2.3 Other hazards Results of PBT and vPvB assessment PBT: vPvB:	Not applicable. Not applicable.				
SECTION 3: Composition/information	on ingredients				
3.1 Substances					
CAS# Designation: Identification number(s): EC number:	7803-63-6 Ammonium hydrogen sulfate 232-265-5				
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 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 4.2 Most important symptoms and effects, both acute and delayed	Rinse opened eye for several minutes under running water. Then consult doctor. Seek medical treatment. 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	Use carbon dioxide, extinguishing powder or foam. Water may be ineffective but may be used for cooling exposed containers.				
5.2 Special hazards arising from the substance or mixture	If this product is involved in a fire, the following can be released: Ammonia Nitrogen oxides (NOx)				
5.3 Advice for firefighters Protective equipment:	Wear self-contained breathing apparatus. Wear full protective suit.				
SECTION 6: Accidental release measures					
6.1 Personal precautions, protective					
equipment and emergency procedures 6.2 Environmental precautions:	Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation 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.				
	(Contd. on page 2) DE/E				

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

Revision: 12.02.2007

ade name Ammonium hydrogen sulfat	e
	Do not allow to enter the ground/soil. (Contd. of page
6.3 Methods and material for containment	0
and cleaning up:	Use neutralizing agent. Dispose of contaminated material as waste according to item 13.
Prevention of secondary hazards:	Ensure adequate ventilation. No special measures required.
Prevention of secondary hazards: 6.4 Reference to other sections	See Section 7 for information on safe handling
	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	
7.1 Precautions for safe handling	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:	No information known.
7.2 Conditions for safe storage, including an	
Storage Requirements to be met by storerooms and	
containers: Information about storage in one common	No special requirements.
storage facility:	No information known.
Further information about storage conditions:	Keep container tightly sealed.
	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)	No further relevant information available.
SECTION 8: Exposure controls/persona	al 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: Additional information:	Not required.
	No data
8.2 Exposure controls Personal protective equipment	The second se
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 rémove 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
Breathing equipment:	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.
Protection of hands:	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 qualit and varies from manufacturer to manufacturer.
Material of gloves	and varies from manufacturer to manufacturer.
Material of gloves Penetration time of glove material Eve protection:	Impervious gloves Not determined
Penetration time of glove material Eye protection:	Impervious gloves Not determined Tightly sealed safety glasses. Full face protection
Penetration time of glove material Eye protection: Body protection:	Impervious gloves Not determined Tightly sealed safety glasses. Full face protection Protective work clothing.
Penetration time of glove material Eye protection: Body protection: SECTION 9: Physical and chemical pro	Impervious gloves Not determined Tightly sealed safety glasses. Full face protection Protective work clothing.
Penetration time of glove material Eye protection: Body protection: SECTION 9: Physical and chemical pro 9.1 Information on basic physical and chemi General Information	Impervious gloves Not determined Tightly sealed safety glasses. Full face protection Protective work clothing.
Penetration time of glove material Eye protection: Body protection: SECTION 9: Physical and chemical pro 9.1 Information on basic physical and chemi General Information Appearance: Form:	Impervious gloves Not determined Tightly sealed safety glasses. Full face protection Protective work clothing. perties ical properties
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Penetration time of glove material Eye protection: Body protection: SECTION 9: Physical and chemical pro 9.1 Information on basic physical and chemi General Information Appearance: Form: Colour: Smell: Odour threshold: pH-value:	Impervious gloves Not determined Tightly sealed safety glasses. Full face protection Protective work clothing. perties ical properties Lump White Not determined
Penetration time of glove material Eye protection: Body protection: SECTION 9: Physical and chemical pro 9.1 Information on basic physical and chemi General Information Appearance: Form: Colour: Smell: Odour threshold: pH-value: Change in condition Melting point/Melting range:	Impervious gloves Not determined Tightly sealed safety glasses. Full face protection Protective work clothing. perties ical properties Lump White Not determined Not determined. Not applicable. 146,9 °C
Penetration time of glove material Eye protection: Body protection: SECTION 9: Physical and chemical pro 9.1 Information on basic physical and chemi General Information Appearance: Form: Colour: Smell: Odour threshold: pH-value: Change in condition	Impervious gloves Not determined Tightly sealed safety glasses. Full face protection Protective work clothing. perties ical properties Lump White Not determined Not determined. Not applicable.
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Penetration time of glove material Eye protection: Body protection: SECTION 9: Physical and chemical pro 9.1 Information on basic physical and chemi General Information Appearance: Form: Colour: Smell: Odour threshold: pH-value: Change in condition Melting point/Melting range: Boiling point/Boiling range: Boiling point/Boiling range: Sublimation temperature / start: Flash point: Inflammability (solid, gaseous)	Impervious gloves Not determined Tightly sealed safety glasses. Full face protection Protective work clothing. perties ical properties Lump White Not determined Not determined. Not applicable. 146,9 °C Not determined Not determined Not determined Not determined Not determined Not determined Not determined.
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Penetration time of glove material Eye protection: Body protection: SECTION 9: Physical and chemical pro 9.1 Information on basic physical and chemi General Information Appearance: Form: Colour: Smell: Odour threshold: pH-value: Change in condition Melting point/Melting range: Boiling point/Melting range: Boiling point/Melting range: Sublimation temperature / start: Flash point: Inflammability (solid, gaseous) Ignition temperature: Decomposition temperature: Self-inflammability: Danger of explosion: Critical values for explosion: Lower: Upper: Steam pressure:	Impervious gloves Not determined Tightly sealed safety glasses. Full face protection Protective work clothing. perties ical properties Lump White Not determined Not determined. Not applicable. 146,9 °C Not determined Not determined Not determined Not applicable Not determined. Not applicable Not determined. Not determined. Not determined. Not determined. Not determined. Not determined. Product is not explosive. Not determined Not determined
Penetration time of glove material Eye protection: Body protection: SECTION 9: Physical and chemical pro 9.1 Information on basic physical and chemi General Information Appearance: Form: Colour: Smell: Odour threshold: pH-value: Change in condition Melting point/Melting range: Boiling point/Melting range: Sublimation temperature / start: Flash point: Inflammability (solid, gaseous) Ignition temperature: Self-inflammability: Danger of explosion: Critical values for explosion: Lower: Upper: Steam pressure: Density at 20 °C	Impervious gloves Not determined Tightly sealed safety glasses. Full face protection Protective work clothing. perties ical properties Lump White Not determined Not determined. Not applicable. 146,9 °C Not determined Not determined Not determined Not determined Not determined Not determined. Not determined.
Penetration time of glove material Eye protection: Body protection: SECTION 9: Physical and chemical pro 9.1 Information on basic physical and chemi General Information Appearance: Form: Colour: Smell: Odour threshold: pH-value: Change in condition Melting point/Melting range: Boiling point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flash point: Inflammability (solid, gaseous) Ignition temperature: Decomposition temperature: Self-inflammability: Danger of explosion: Critical values for explosion: Lower: Upper: Steam pressure: Density at 20 °C Relative density	Impervious gloves Not determined Protective work clothing. perties ical properties Lump White Not determined Not determined Not determined. Not applicable. 146,9 °C Not determined Not determined Not determined Not determined Not determined Not determined. Not determined Not determined. Not determined Not determined. Not determined.
Penetration time of glove material Eye protection: Body protection: SECTION 9: Physical and chemical pro 9.1 Information on basic physical and chemi General Information Appearance: Form: Colour: Smell: Odour threshold: pH-value: Change in condition Melting point/Melting range: Boiling point/Melting range: Sublimation temperature / start: Flash point: Inflammability (solid, gaseous) Ignition temperature: Decomposition temperature: Self-inflammability: Danger of explosion: Critical values for explosion: Lower: Upper: Steam pressure: Density at 20 °C Relative density	Impervious gloves Not determined Tightly sealed safety glasses. Full face protection Protective work clothing. perties cal properties Lump White Not determined Not determined. Not applicable. 146,9 °C Not determined Not determined Not determined Not determined Not determined. Not applicable Not determined. Not determined.
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Penetration time of glove material Eye protection: Body protection: SECTION 9: Physical and chemical pro 9.1 Information on basic physical and chemi General Information Appearance: Form: Colour: Smell: Odour threshold: pH-value: Change in condition Melting point/Melting range: Boiling point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flash point: Inflammability (solid, gaseous) Ignition temperature: Decomposition temperature: Self-inflammability: Danger of explosion: Critical values for explosion: Lower: Upper: Steam pressure: Density at 20 °C Relative density Vapour density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water): Viscosity: dynamic: kinematic:	Impervious gloves Not determined Tightly sealed safety glasses. Full face protection Protective work clothing. perties cal properties Lump White Not determined Not determined. Not determined. Not determined Not determined Not determined Not applicable. Not determined Not applicable. Soluble Not determined.
Penetration time of glove material Eye protection: Body protection: Body protection: SECTION 9: Physical and chemical pro 9.1 Information on basic physical and chemi General Information Appearance: Form: Colour: Smell: Odour threshold: pH-value: Change in condition Melting point/Melting range: Boiling point/Melting range: Boiling point/Melting range: Sublimation temperature / start: Flash point: Inflammability (solid, gaseous) Ignition temperature: Decomposition temperature: Self-inflammability: Danger of explosion: Critical values for explosion: Lower: Upper: Steam pressure: Density at 20 °C Relative density Vapour density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water): Viscosity: dynamic:	Impervious gloves Not determined Tright y sealed safety glasses. Full face protection Protective work clothing. perties cal properties Lump White Not determined Not determined. Not determined. Not applicable. 146.9 °C Not determined Not determined Not determined Not determined Not determined. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
Penetration time of glove material Eye protection: Body protection: SECTION 9: Physical and chemical pro 9.1 Information on basic physical and chemi General Information Appearance: Form: Colour: Smell: Odour threshold: pH-value: Change in condition Melting point/Melting range: Boiling point/Melting range: Sublimation temperature / start: Flash point: Inflammability (solid, gaseous) Ignition temperature: Decomposition temperature: Self-inflammability: Danger of explosion: Critical values for explosion: Lower: Upper: Steam pressure: Density at 20 °C Relative density Vapour density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water): Viscosity: dynamic: kinematic: 9.2 Other information	Impervious gloves Not determined Tightly sealed safety glasses. Full face protection Protective work clothing. perties cal properties Lump White Not determined Not determined. Not determined. Not determined Not determined Not determined Not applicable. Not determined Not applicable. Soluble Not determined.
Penetration time of glove material Eye protection: Body protection: SECTION 9: Physical and chemical pro 9.1 Information on basic physical and chemi General Information Appearance: Form: Colour: Smell: Odour threshold: pH-value: Change in condition Melting point/Melting range: Boiling point/Melting range: Sublimation temperature / start: Flash point: Inflammability (solid, gaseous) Ignition 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 Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water): Viscosity: dynamic: kinematic:	Impervious gloves Not determined Tightly sealed safety glasses. Full face protection Protective work clothing. perties cal properties Lump White Not determined Not determined. Not determined. Not determined Not determined Not determined Not applicable. Not determined Not applicable. Soluble Not determined.

Page 3/4

Printing date 01.07.2013 Revision: 12.02.2007				
Trade name Ammonium hydrogen sulfate	;			
		(Contd. of page 2		
10.2 Chemical stability Thermal decomposition / conditions to be avoided: 10.3 Possibility of hazardous reactions 10.5 Incompatible materials:	Stable under recommended storage conditions. No decomposition if used and stored according to specifications. No dangerous reactions known			
	Oxidizing agents No information known.			
10.6 Hazardous decomposition products:	Ammonia Nitrogen oxides (NOx) Sulphur oxides (SOx)			
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		
LD/LC50 values that are relevant for	esophagus and stomach.			
classification: Skin irritation or corrosion: Eye irritation or corrosion:	No data Causes severe skin burns. Irritant effect. Causes serious eye damage.			
Sensitization: Germ cell mutagenicity: Carcinogenicity:	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.			
Reproductive toxicity: Specific target organ system toxicity - reported exposure:	No effects known.			
repeated exposure: Specific target organ system toxicity - single exposure:	No effects known. e No effects known.			
Aspiration hazard: Additional toxicological information:	No effects known.	e 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: General notes:	No further relevant information a No further relevant information a No further relevant information a No further relevant information a	available. available.		
	Water hazard class 1 (Self-asse	ased to the environment without proper governmental permits. ssment): slightly hazardous for water. or large quantities of it to reach ground water, water bodies or sewage system.		
12.5 Results of PBT and vPvB assessment PBT: vPvB: 12.6 Other adverse effects	Not applicable. Not applicable. No further relevant information a			
SECTION 13: Disposal considerations 13.1 Waste treatment methods Recommendation	Hand over to disposers of hazar	rdous waste.		
Uncleaned packagings:	Must be specially treated under Consult state, local or national r	adherence to official regulations. egulations for proper disposal.		
Recommendation: Recommended cleaning agent:	Disposal must be made according to official regulations. Water, if necessary with cleaning agent.			
SECTION 14: Transport information				
UN-Number ADR, IMDG, IATA	L	JN2506		
14.2 UN proper shipping name ADR IMDG, IATA	2 A	2506 AMMONIUM HYDROGEN SULPHATE AMMONIUM HYDROGEN SULPHATE		
14.3 Transport hazard class(es) ADR				
Class Label IMDG, IATA	8 8	(C2) Corrosive substances.		
Class Label	8 8	Corrosive substances.		
Packing group ADR, IMDG, IATA		I		
14.5 Environmental hazards:		Not applicable.		
Kemler Number:		Varning: Corrosive substances. 30 Joide, ammonium compounde		
Segregation groups 14.7 Transport in bulk according to Annex II	of MARPOL73/78 and the IBC	Acids, ammonium compounds		
Code Transport/Additional information:	N	Not applicable.		
ADR Excepted quantities (EQ): Limited quantities (LQ)	1			
Transport category	2	Contd. on page 4		

Page 4/4

Trade name Ammonium hydrogen sulfate

		(Contd. of page 3)			
Tunnel restriction code	E				
UN "Model Regulation":	UN2506, AMMONIUM HYDROGEN SULPHATE, 8, II				
SECTION 15: Regulatory information					
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Australian Inventory of Chemical					
Substances Standard for the Uniform Scheduling of	Substance is listed.				
Drugs and Poisons National regulations	Substance is not listed.				
Information about limitation of use:	Employment restrictions concerning young persons must be observed. For use only by technically qualified individuals.				
Water hazard class: Other regulations, limitations and prohibitiv ELINCS (European List of Notified Chemical	Water hazard class 1 (Self-assessment): slightly hazardous for water. e regulations				
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 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 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 product 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: Health, Safety and Environmental Department. Abbreviations and acronyms: Abbreviation

DE/E