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Version 1
1 Identification
Product identifier Product name: Magnesium nitrate hexahydrate
Stock number: 11564 CAS Number: 13446-18-9
EC number: 233-826-7 Relevant identified uses of the substance or mixture and uses advised against.
Identified use: SU24 Scientific research and development Details of the supplier of the safety data sheet
Manufacturer/Supplier: Alfa Aesar Thermo Fisher Scientific Chemicals, Inc.
30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757
Email: tech@alfa.com www.alfa.com Information Department: Health, Safaty and Environmental Department
Information Department: Health, Safety and Environmental Department Emergency telephone number: During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.
2 Hazard(s) identification
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) The substance is not classified as hazardous according to 29 CFR 1910 (OSHA GHS). Hazards not otherwise classified No information known.
Label elements GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable WHMIS classification Not controlled Classification system HMIS ratings (scale 0-4)
Hazardous Materials Identification System) HEALTH I HEALTH I HEALTH I FIRE I FIRE I REACTIVITY Physical Hazard = 1
Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.
3 Composition/information on ingredients Chemical characterization: Substances
CAS# Description: 13446-18-9 Magnesium nitrate hexahydrate Concentration: <100% Identification number(s): EC number: 233-826-7
4 First-aid measures
Description of first aid measures After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Sock tramedical advice
Seek immediate medical advice. After skin contact Immediately wash with water and soap and rinse thoroughly.
Seek immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.
After swallowing Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed No further relevant information available.
Indication of any immediate medical attention and special treatment needed No further relevant information available. 5 Fire-fighting measures
Extinguishing media Suitable extinguishing agents Use carbon dioxide, extinguishing powder or foam. Water may be ineffective but may be used for cooling exposed containers. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Nitrogen oxides (NOx) Magnesium oxide Advice for firefighters
Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.
6 Accidental release measures
Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation (Contd. on page 2)
USA

Safety Data Sheet

Product name: Magnesium nitrate hexahydrate

Environmental precautions: Do not al Methods and material for containmen Prevention of secondary hazards: No Reference to other sections See Section 7 for information on safe ha See Section 8 for information on person See Section 13 for disposal information. Protective Action Criteria for Chemic PAC-1: 16 mg/m3 PAC-3: 1,100 mg/m3	andling al protection equipment.
Conditions for safe storage, including Storage	explosions and tires: No information known. g any incompatibilities ns and receptacles: No special requirements. mon storage facility: nditions: ed containers.
Control parameters Components with limit values that reaction The product does not contain any releve Additional information: No data Exposure controls Personal protective and hygienic mean The usual precautionary measures for har Keep away from foodstuffs, beverages a Remove all soiled and contaminated clo Wash hands before breaks and at the e Maintain an ergonomically appropriate v Breathing equipment: Use suitable res Recommended filter device for short Use a respirator with type N95 (USA) or purifying respirators are appropriate. Of Protection of hands: Impervious gloves	of technical systems: designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. quire monitoring at the workplace: ant quantities of materials with critical values that have to be monitored at the workplace. sures andling chemicals should be followed. and feed. thing immediately. not work. pirator when high concentrations are present. term use: PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air- ny use equipment tested and approved under appropriate government standards. se for their proper condition. / depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. minutes) 480 Le shields / NIOSH (US) or EN 166(EU)
9 Physical and chemical properties	
Information on basic physical and ch General Information Appearance: Form: Odor: Odor threshold:	
pH-value:	Not applicable.
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	89 °C (192 °F) 330 °C (626 °F) (dec) Not determined Not determined Not determined Not determined Not determined Not determined
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density	Not determined. Not determined Not applicable. 1.46 g/cm ³ (12.184 lbs/gal) Not determined. Not applicable.
	(Contd. on page 3 USA



Product name: Magnesium nitrate h	nexanydrate			
		ontd. of page 2)		
Evaporation rate Solubility in / Miscibility with	Not applicable.			
Water: Partition coefficient (n-octanol/water	Not determined			
Viscosity:	, ,			
dynamic: kinematic:	Not applicable. Not applicable.			
Other information	No further relevant information available.			
10 Stability and reactivity				
Reactivity No information known.				
Chemical stability Stable under recom	Chemical stability Stable under recommended storage conditions.			
Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions No dangerous reactions known				
Conditions to avoid No further relevant information available. Incompatible materials:				
Reducing agents Water/moisture				
Hazardous decomposition products:				
Nitrogen oxides Magnesium oxide				
11 Toxicological information				
	Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance.			
LD/LC50 values that are relevant for Oral LD50 5440 mg/kg (rat)	classification:			
Skin irritation or corrosion: May caus				
Eye irritation or corrosion: May cause Sensitization: No sensitizing effects kr	e irritation nown.			
Germ cell mutagenicity: No effects kn	own. a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.			
Reproductive toxicity: No effects know		·		
	/ - repeated exposure: No effects known.	·		
Specific target organ system toxicity	/ - single exposure: No effects known.			
Aspiration hazard: No effects known.				
Subacute to chronic toxicity: No effect Additional toxicological information:	to the best of our knowledge the acute and chronic toxicity of this substance is not fully known.			
12 Ecological information				
Toxicity				
Aquatic toxicity: No further relevant information available.				
Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available.				
Additional ecological information:	Mobility in soil No further relevant information available. Additional ecological information:			
General notes: Do not allow undiluted product or large				
Avoid transfer into the environment.				
Results of PBT and vPvB assessmer PBT: Not applicable.	nt			
vPvB: Not applicable. Other adverse effects No further relevant information available.				
13 Disposal considerations				
Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal.				
Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.				
·				
14 Transport information				
UN-Number DOT, ADN, IMDG, IATA	Not applicable			
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	Net and Sector			
Transport hazard class(es)	Not applicable			
DOT, ADR, ADN, IMDG, IATA				
Class	Not applicable			
Packing group DOT, ADR, IMDG, IATA	Not applicable			
Environmental hazards:	Not applicable.			
Special precautions for user	Not applicable.			
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.				
Transport/Additional information:				
DOT Marine Pollutant (DOT):	No			
UN "Model Regulation":	Not applicable			
		110.4		

USA (Contd. on page 4)

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USA

Product name: Magnesium nitrate hexahydrate 15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable National word hot applicable Mational regulations All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. All components of this product are listed on the Canadian Domestic Substances List (DSL). SARA Section 313 (specific toxic chemical listings) 13446-18-9 Magnesium nitrate hexahydrate 1346-18-9 (Magnesium nitrate nexanyarate California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out. 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 Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. Conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Department Date of preparation/Revision: Print date, revision date and version number are in the header of each page.
Abbreviations and acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transport des marchandises duspereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Air Transport Association
ENECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA)
WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent
PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern
VPWE very Persistent and very Bioaccumulative ACGHI: American Chervere 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)