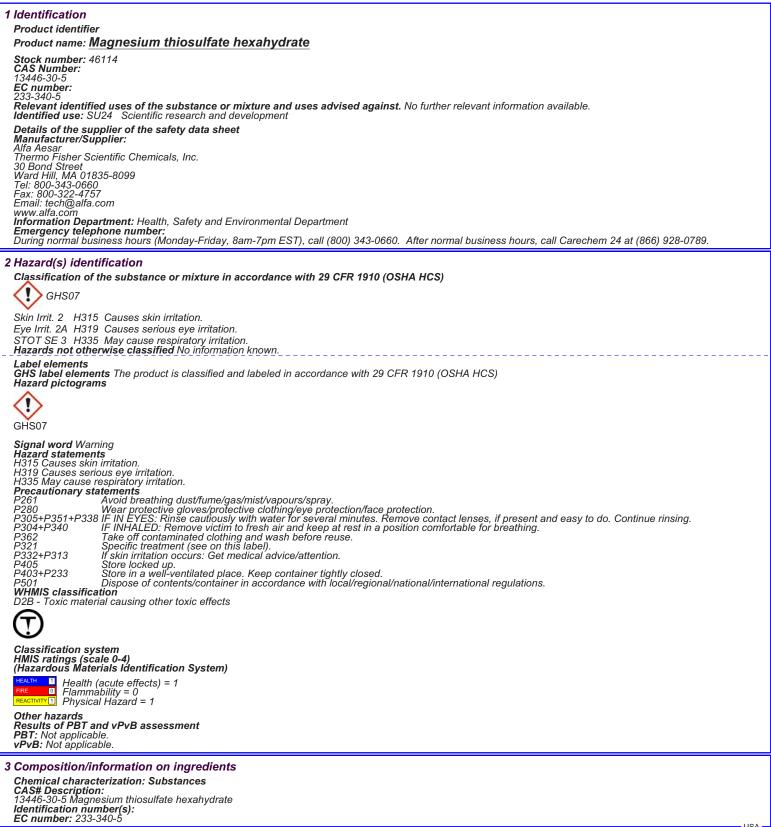
Safety Data Sheet acc. to OSHA HCS





(Contd. on page 2)

Product name: Magnesium thiosulfate hexahydrate

(Contd. of page 1)

	(conta: or page 1)
4 First-aid measures	
Description of first aid measures After inhalation	
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.	
After skin contact Immediately wash with water and soap and rinse thoroughly.	
Seek immédiate 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	
Causes skin irritation. Causes serious eye irritation.	
May cause respirátory irritation. Indication of any immediate medical attention and special treatment needed No further relevant information available.	
5 Fire-fighting measures	
Extinguishing media	
Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Sulfur oxides (SOX)	
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	
Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Ensure adequate ventilation.	
Prevention of secondary hazards: No special measures required. 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 disposal information.	
7 Handling and storage	
Handling Precautions for safe handling	
Keep container tightly sealed.	
Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace.	
Informătion about protection against explosions and fires: No information known. Conditions for safe storage, including any incompatibilities	
Storage Requirements to be met by storerooms and receptacles: No special requirements.	
Information about storage conditions: Further information about storage conditions:	
Keep container tightly sealed	
Store in cool, dry conditions in well sealed containers. Specific end use(s) No further relevant information available.	
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. Control parameters	
Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information: No data	
Exposure controls Personal protective equipment	
General protective and hydienic measures	
The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Beneved we will evided and contaminated electrications in the state of the st	
Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work.	
Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment.	
Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to dete purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards.	ermine if air-
Protection of hands:	
Check protective gloves prior to each use for their proper condition.	
Penetration in suitable glove material (in minutes) Not determined Eye protection: Safety glasses	
Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Recommended filter device for short term use: Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to dete purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. Protection of hands: Impervious gloves Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.	ermine if air-

	•	(Contd. of page 2)	
9 Physical and chemical properties	S		
Information on basic physical and ch General Information	nemical properties		
Appearance: Form: Odor:	Crystalline Not determined		
Odor threshold:	Not determined.		
pH-value: Change in condition	Not applicable.		
Malting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	170 °C (338 °F) (-3H ₂ O) Not determined Not determined Not determined Not determined Not determined Not determined		
Danger of explosion: Explosion limits: Lower:	Not determined. Not determined		
Upper: Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate Solubility in / Miscibility with	Not determined Not applicable. 1.818 g/cm ³ (15.171 lbs/gal) Not determined. Not applicable. Not applicable. Not applicable.		
Water: Partition coefficient (n-octanol/water) Viscosity:	Soluble): Not determined.		
dynamic: kinematic: Other information	Not applicable. Not applicable. No further relevant information available.		
10 Stability and reactivity Reactivity No information known. 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 Reacts with strong oxidizing agents Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Sulfur oxides (SOx) Magnesium oxide			
11 Toxicological information Information on toxicological effects Acute toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for components in this product. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Causes skin irritation. Eye irritation or corrosion: Causes serious eye irritation. Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: May cause respiratory irritation. Subacute to chronic toxicity: No effects known. Subacute to chronic toxicity: No effects known. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. Carcinogenic categories OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.			
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: General notes: Do not allow material to be released to the environment without proper governmental permits. Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. 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 n Recommended cleansing agent: Wat	nade according to official regulations. er, if necessary with cleansing agents.	USA —	
		(Contd. on page 4)	

Product name: Magnesium thiosulfate hexahydrate

(Contd. of page 3)

	(Contd. of page 3)
14 Transport information	
UN-Number	
DOT, ADN, IMDG, IATA	Not applicable
UN proper shipping name DOT, ADN, IMDG, IATA	Not applicable
Transport hazard class(es)	
DOT, ADR, ADN, IMDG, IATA Class	Not applicable
Packing group DOT, IMDG, IATA	Not applicable
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73	3/78 and the IBC Code Not applicable.
Transport/Additional information:	
DOT	
Marine Pollutant (DOT):	No
UN "Model Regulation":	-
15 Regulatory information	
Safety, health and environmental regulations/legislatic GHS label elements The product is classified and labeled Hazard pictograms	on specific for the substance or mixture d in accordance with 29 CFR 1910 (OSHA HCS)
\wedge	
\checkmark	
GHS07	
Signal word Warning	
Signal word Warning Hazard statements	
H315 Causes skin irritation. H319 Causes serious eye irritation.	
H335 May cause respiratory irritation. Precautionary statements	
Precautionary statements	
P261 Avoid breathing dust/fume/gas/mist/va P280 Wear protective gloves/protective cloth	pours/spray. ind/eve protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with wate	hing/eye protection/face protection. er for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P340 IF INHALED: Remove victim to fresh a P362 Take off contaminated clothing and wa	air and keep at rest in a position comfortable for breathing. ash before reuse.
P321 Specific treatment (see on this label)	
P332+P313 If skin irritation occurs: Get medical ad P405 Store locked up.	lvice/attention.
P403 Store in a well-ventilated place. Keep of	container tightly closed.
P501 Dispose of contents/container in accord	container tightly closed. rdance with local/regional/national/international regulations.
National regulations All components of this product are listed in the U.S. Enviro	onmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. Non-Domestic Substances List (NDSL). ubstance is not listed.
All components of this product are listed on the Canadian	Non-Domestic Substances List (NDSL).
California Proposition 65	udstance is not listed.
Prop 05 - Chemicals known to cause cancer Substance	e is not listed.
Prop 65 - Developmental toxicity Substance is not listed	d.
Prop 65 - Developmental toxicity, female Substance is a Prop 65 - Developmental toxicity, male Substance is no	isted.
Information about limitation of use: For use only by tec Other regulations, limitations and prohibitive regulation	chnically qualified individuals.
Substance of Very High Concern (SVHC) according to	ons o the REACH Regulations (EC) No. 1907/2006. Substance is not listed. and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the
The conditions of restrictions according to Article 67 a	and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the
market and use must be observed. Substance is not listed.	
Annex XIV of the REACH Regulations (requiring Author Chemical safety assessment: A Chemical Safety Assess	orisation for use) Substance is not listed.
Chemical safety assessment: A Chemical Safety Asses	Sment has not been carned out.
16 Other information	
Employers should use this information only as a suppleme	ent to other information gathered by them, and should make independent judgement of suitability of this of asfatt, of amplayees This information is furgished without warranty, and asy use of the product hat in
conformance with this Material Safety Data Sheet, or in co	ent to other information gathered by them, and should make independent judgement of suitability of this nd safety of employees. This information is furnished without warranty, and any use of the product not in ombination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Department Date of preparation / last revision 08/16/2016 / -	
Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par l	Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
DOT: US Department of Transportation EINECS: 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	Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) y) ny 3
LD50: Lethal dose, 50 percent VPVB: very Persistent and very Bioaccumulative	
ACGIH: American Conference of Governmental Industrial Hygienists (USA)	
NTP: National Toxicology Program (USA)	
EPA: Environmental Protection Agency (USA)	
Eye Irrit. 2. Skin conosion/Irritation, Hazard Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A	- 0
SIUI SE 3: Specific target organ toxicity - Single exposure, Hazard Categor	ry 3 USA