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1 Identification Product identifier
Product name: Cephalexin hydrate
Stock number: J63172 CAS Number: 15686-71-2 EC number: 239-773-6
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, 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)
GHS08 Health hazard
Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens 1 H317 May cause an allergic skin reaction
Skin Sens. 1 H317 May cause an allergic skin reaction. Hazards not otherwise classified No information known. Label elements
GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms
GHS08
Signal word Danger Hazard statements H224 May cause alloray or asthma symptoms or bracthing difficultios if inhaled
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317 May cause an allergic skin reaction. Precautionary statements P284 [In case of inadequate ventilation] wear respiratory protection.
P261 Avoid breating dustraine/gas/mis/vapors/spray P280 Wear protective gloves. P272 Contaminated work clothing must not be allowed out of the workplace. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor. P321 Specific treatment (see on this label). P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P304-P352 E ON SKIN-Weap with planety of writer of set of the discussion.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P302+P352 IF ON SKIN: Wash with plenty of water. P501Dispose of contents/container in accordance with local/regional/national/international regulations.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification D2A - Very toxic material causing other toxic effects
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Classification system HMIS ratings (scale 0-4)
(Hazardouš Materials Identification System) HEALTH I HEALTH I Flammability = 1
REACTIVITY I Physical Házard = 1 Other hazards Provide of BBT and vBvB appagement
Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.
3 Composition/information on ingredients
Chemical characterization: Substances CAS# Description: 15686-71-2 Cephalexin hydrate
Concentration: ≤100% Identification number(s):
EC number: 239-773-ô´USA(Contd. on page 2)

Product name: Cephalexin hydrate

	(Contd. of page 1)
4 First-aid measures	
Description of first aid measures After inhalation	1
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.	1
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	I
Most important symptoms and effects, both acute and delayed May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.	I
May cause an allergic skin reaction. 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.	I
Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released:	I
Carbon monoxide and carbon dioxide	I
Sulfur oxides (SOx) Nitrogen oxides (NOx) Advice for firefighters	I
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 product to reach sewage system or any water course. Methods and material for containment and cleaning up: Dispose of contaminated material as waste according to section 13.	
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.	
Protective Action Criteria for Chemicals	
PAC-1: Substance is not listed. PAC-2: Substance is not listed.	
PAC-3: Substance is not listed.	
7 Handling and storage Handling	
Precautions for safe handling	I
Keep container tightly sealed. Ensure good ventilation at the workplace. Prevent formation of dust.	
Information about protection against explosions and fires: No information known.	
Conditions for safe storage, including any incompatibilities Storage Boorgets to be mot by storageone and recented on Bofrigerets	
Requirements to be met by storerooms and receptacles: Refrigerate Information about storage in one common storage facility: Protect from beat	
Protect from heat. Store away from oxidizing agents. Further information about storage conditions:	
Further information about storage conditions: Keep container tightly sealed. Refrigerate	
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 hygienic measures The usual precautionary measures for handling chemicals should be followed.	
Keep away from foodstuffs, beverages and feēd. Remove all soiled and contaminated clothing immediately.	
Wash hands before breaks and at the end of work. Maintain an ergonomically appropriate working environment.	
Breathing equipment: Use suitable respirator when high concentrations are present.	
Use suitable respiratory protective device in case of insufficient ventilation. 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.	ermine if air-
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.	(0) (d
	(Contd. on page 3)

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Product name: Cenhalexin hydrate

Product name: Cephalexin hydrate		
Material of gloves Nitrile rubber, NBR Penetration time of glove material (in Glove thickness: 0.1 mm Eye protection: Safety glasses with si Body protection: Protective work cloth	de shields / NIOSH (US) or EN 166(EU)	(Contd. of page 2
9 Physical and chemical propertie	S	
Information on basic physical and cl		
General Information Appearance:		
Form:	Powder	
Odor: Odor threshold:	Not determined Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melting point/Melting range:	Not determined	
Boiling point/Boiling range: Sublimation temperature / start:	Not determined Not determined	
Sublimation temperature / start: Flammability (solid, gaseous)	Not determined.	
Ignition temperature: Decomposition temperature:	Not determined Not determined	
Auto igniting:	Not determined.	
Danger of explosion:	Not determined.	
Explosion limits: Lower:	Not determined	
Upper:	Not determined	
Vapor pressure:	Not applicable.	
Density: Relative density	Not determined Not determined.	
Vapor density	Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with Water:	Not determined	
Partition coefficient (n-octanol/water): Not determined.	
Viscosity: dynamic:	Not applicable.	
kinematic:	Not applicable.	
Other information	No further relevant information available.	
10 Stability and reactivity		
Possibility of hazardous reactions R Conditions to avoid No further relevan Incompatible materials:	to be avoided: Decomposition will not occur if used and stored according to specifications. eacts with strong oxidizing agents	
Oxidizing agents Heat		
Hazardous decomposition products: Carbon monoxide and carbon dioxide Sulfur oxides (SOx) Nitrogen oxides		
11 Toxicological information		
Information on toxicological effects		
Acute toxicity: The Registry of Toxic E LD/LC50 values that are relevant for Skin irritation or corrosion: May caus Eye irritation or corrosion: May caus Sensitization:	se irritation	
May cause allergy or asthma symptom. May cause an allergic skin reaction.	s or breathing difficulties if inhaled.	

Sensitization: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Reproductive toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains reproductive data for this substance. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known. Subacute to chronic toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for this substance. 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:

 General notes:

 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.

USA (Contd. on page 4) Product name: Cephalexin hydrate

(Contd. of page 3)

13 Disposal considerations

Waste treatment methods Recommendation Consult state, local or national regulations to Uncleaned packagings: Recommendation: Disposal must be made according to official l	ensure proper disposal.	
Recommendation. Disposal must be made according to official		
14 Transport information		
UN-Number DOT, ADN, IMDG, IATA	Not applicable	
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	Not applicable	
Transport hazard class(es)		
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	d the IBC Code Not applicable.	
Transport/Additional information:		
DOT Marine Pollutant (DOT):	No	
UN "Model Regulation":	Not applicable	

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms



Signal word Danger

 Signal word Danger

 Hazard statements

 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

 H317 May cause an allergic skin reaction.

 Precautionary statements

 P284
 [In case of inadequate ventilation] wear respiratory protection.

 P261
 Avoid breathing dust/fume/gas/mist/vapors/spray

 P280
 Wear protective gloves.

 P272
 Contaminated work clothing must not be allowed out of the workplace.

 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

 P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

 P321
 Specific treatment (see on this label).

 P303+P313 If skin irritation or rash occurs: Get medical advice/attention.

 P302+P352 IF ON SKIN: Wash with plenty of water.

 P501
 Dispose of contents/container in accordance with local/regional/national/international regulations.

 Mational regulations

 All components of this product are listed on the Canadian Domestic Substances List (DSL).

National regulations All components of this product are listed on the Canadian Domestic Substances List (DSL). This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes. SARA Section 313 (specific toxic chemical listings) Substance is not listed. 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. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, compared Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, compared Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, compared Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Information about 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.

Department issuing SDS: Global Marketing Department

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) IMOG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances 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) LCS0: Lethral concentration, 50 percent DBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern

Product name: Cephalexin hydrate

vPvB: 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) Resp. Sens. 1: Respiratory sensitisation – Category 1 Skin Sens. 1: Skin sensitisation – Category 1 (Contd. of page 4)

USA