



1 Identification Product identifier Product name: Doxycycline hyclate Stock number: J60579 CAS Number: 24390-14-5 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 Alla Aesai Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 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) ! GHS07 Acute Tox. 4 H302 Harmful if swallowed. Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation. STOT SE 3 H335 May cause respiratory irritation. 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 ! GHS07 Signal word Warning Hazard statements H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements D061 Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P405 P405 Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification D2A - Very toxic material causing other toxic effects Т Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
 EALTH
 2
 Health (acute effects) = 2

 RE
 1
 Flammability = 1

 EACTIVITY
 1
 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: 24390-14-5 Doxycycline hyclate 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 immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. (Contd. on page 2)

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Product name: Doxycycline hyclate			
		(Operated and the second	
After swallowing Seek medical treatme	ent.	(Contd. of page 1)	
Information for doctor			
	s, both acute and delayed No further relevant information available. attention and special treatment needed No further relevant information available.		
5 Fire-fighting measures			
Extinguishing media	dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.		
Special hazards arising from the subs	stance or mixture		
If this product is involved in a fire, the fol Carbon monoxide and carbon dioxide	llowing can be released:		
Nitroaen oxides (NOx)			
Hydrogen chloride (HCl) Advice for firefighters			
Protective equipment:			
Wear self-contained respirator. Wear fully protective impervious suit.			
6 Accidental release measures			
Personal precautions, protective equi Wear protective equipment. Keep unprot	ipment and emergency procedures tected 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 wa	ste according to section 13.		
Ensure adequate ventilation. Prevention of secondary hazards: No	special measures required.		
Reference to other sections See Section 7 for information on safe ha			
See Section 8 for information on person:	al protection equipment		
See Section 13 for disposal information.			
7 Handling and storage			
Handling			
Precautions for safe handling			
Keep container tightly sealed. Ensure good ventilation at the workplace.			
	explosions and fires: No information known.		
Conditions for safe storage, including Storage	g any incompatibilities		
Requirements to be met by storeroom	ns and receptacles: Refrigerate		
Information about storagé in one common storage facility: Protect from heat.			
Store away from oxidizing agents. Further information about storage col	nditional		
Keep container tightly sealed.	ndmons:		
Refrigerate Specific end use(s) No further relevant	information available		
opecine ena use(s) no farmer relevant			
8 Exposure controls/personal prote			
Additional information about design of	of technical systems:		
Control parameters	designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.		
Components with limit values that rec	quire monitoring at the workplace:		
The product does not contain any releva	int 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 meas	sures andling chemicals should be followed		
The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed.			
Remove all soiled and contaminated clothing immediately. Wash bands before breaks and at the end of work			
As which as which the as we and a live			
Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands:			
Protection of hands:			
Check protective gloves prior to each us	e for their proper condition.		
The selection of suitable gloves not only Penetration time of glove material (in	depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.		
Eve protection: Safety glasses	·		
Body protection: Protective work clothi	rig.		
9 Physical and chemical properties			
Information on basic physical and che			
General Information			
Appearance: Form:	Powder		
Color: Odor:	Pale yellow Not determined		
Odor threshold:	Not determined.		
pH-value:	Not applicable.		
Change in condition	Not determined		
<i>Melting point/Melting range: Boiling point/Boiling range:</i>	Not determined Not determined		
Sublimation temperature / start:	Not determined		
		(Contd. on page 3)	

Product name: Doxvcvcline hvclate

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washingt many a Davis availing hisalat	e
roduct name: Doxycycline hyclate	
	(Contd. of p
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 Solubility in / Miscibility with	Not applicable.
Water:	Not determined
Partition coefficient (n-octanol/wate Viscosity:	r): Not determined.
dynamic:	Not applicable.
kinematic: Other information	Not applicable. No further relevant information available.
0 Stability and reactivity	
Reactivity No information known.	
Chemical stability Stable under recor	nmended storage conditions. 5 to be avoided : Decomposition will not occur if used and stored according to specifications.
Possibility of hazardous reactions F	Reacts with strong oxidizing agents
Conditions to avoid No further releva	
Incompatible materials: Oxidizing agents	
Heat	
Hazardous decomposition products Carbon monoxide and carbon dioxide	
Nitrogen oxides	
Hydrŏgen chloride (HCl)	
11 Toxicological information	
Information on toxicological effects	
Acute toxicity: Harmful if swallowed.	
LD/LC50 values that are relevant for	r classification: No data
Skin irritation or corrosion: Causes	skin irritation.
Skin irritation or corrosion: Causes Eye irritation or corrosion: Causes s Sensitization: No sensitizing effects k	skin irritation. serious eye irritation. mown.
Skin irritation or corrosion: Causes Eye irritation or corrosion: Causes s Sensitization: No sensitizing effects k	skin irritation. serious eye irritation. mown.
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Product name: Doxycycline hyclate	
	(Contd. of page 3)
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":	
An Deale I was state as state a	
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	
GHS07	
Signal word Warning Hazard statements H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Co P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. 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. Ut to research and development only. This product must be used by or directly under the supervision of a technically qualified individual a 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. <td>l las of this product is restricted</td>	l las of this product is restricted
Prop 65 - Developmental toxicity	
24390-14-5 Doxycycline hyclate	
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 ma market and use must be observed. Substance is not listed. 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.	anufacturing, placing on the
Chemical safety assessment: A Unernical Safety Assessment has not been carned out.	
16 Other information Employers should use this information only as a supplement to other information gathered by them, and should make independent jud information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and a conformance with this Material Safety Data Sheet, or combination with any other product or process, is the responsibility of the user	any use of the product not in
Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - 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 Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Workplace Hazardous Materials Information System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal dose, 50 percent VPVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA)	

ACGIH: American Conference of Governmental Industrial Hygi OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) JARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

USA -