



1	Identification
	Product identifier
	Product name: <u>1-Deoxynojirimycin hydrochloride</u>
	Stock number: J66458 CAS Number:
	73285-50-4 Relevant identified uses of the substance or mixture and uses advised against.
	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
	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)
	The substance is not classified according to the Globally Harmonized System (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 (acute effects) = 1
	FIRE I Flammability = 1 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:
	73285-50-4 1-Deoxynojirimycin hydrochloride
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 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 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:
	Vitrogen oxides (NOx)
	Hydrogen chloride (HCl)
	Advice for firefighters' Protective equipment: Wear self-contained respirator.
	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: Pick up mechanically.
	Prevention of secondary hazards: No special measures required. Reference to other sections
	See Section 7 for information on safe handling (Contd. on page 2)
	(Contral of page 2)

Product name: 1-Deoxynojirimycin hydrochloride				
		(Contd. of page 1)		
See Section 8 for information on persona See Section 13 for disposal information.	Il protection equipment.			
7 Handling and storage				
Handling Precautions for safe handling Keep co. Information about protection against e	ntainer tightly sealed. explosions and fires: No information known.			
Conditions for safe storage, including	•			
Storage Requirements to be met by storeroom Information about storage in one com	s and receptacles: Refrigerate			
Protect from heat. Store away from oxidizing agents. Further information about storage con				
Keep container tightly sealed. Refrigerate Specific end use(s) No further relevant i				
8 Exposure controls/personal prote Additional information about design o				
Properly operating chemical fume hood c Control parameters	lesigned for hazardous chemicals and having an average face velocity of at least 100 feet per minute.			
Components with limit values that req	uire monitoring at the workplace: nt quantities of materials with critical values that have to be monitored at the workplace.			
Exposure controls Personal protective equipment				
General protective and hygienic meas The usual precautionary measures for ha	andling chemicals should be followed.			
Keep away from foodstuffs, beverages an Remove all soiled and contaminated clot	hing immediately.			
Wash hands before breaks and at the en Maintain an ergonomically appropriate w	orking environment.			
Breathing equipment: Use suitable resp Protection of hands:	pirator when high concentrations are present.			
Impervious gloves Check protective gloves prior to each use	e 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. Penetration time of glove material (in minutes) Not determined				
Eye protection: Safety glasses Body protection: Protective work clothir				
	·9·			
9 Physical and chemical properties Information on basic physical and che	mical properties			
General Information				
Appearance: Form:	Powder			
Color: Odor:	White Not determined			
Odor threshold:	Not determined.			
-	Not applicable.			
	Not determined			
Boiling point/Boiling range: Sublimation temperature / start:	Not determined Not determined			
Flammability (solid, gaseous)	Not determined.			
Decomposition temperature:	Not determined Not determined			
Auto igniting:	Not determined. Not determined.			
Explosion limits: Lower:	Not determined			
Upper:	Not determined			
Vapor pressure: Density:	Not applicable. Not determined			
Relative density	Not determined.			
Vapor density Evaporation rate	Not applicable. Not applicable.			
Solubility in / Miscibility with				
Partition coefficient (n-octanol/water):	Not determined Not determined.			
Viscosity: dynamic:	Not applicable.			
kinematic: Other information	Not applicable. No further relevant information available.			
10 Stability and reactivity				
Reactivity No information known.				
Chemical stability Stable under recomm	nended storage conditions.			

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 Heat Hazardous decomposition products: Carbon monoxide and carbon dioxide

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Product name: 1-Deoxynojirimycin nydrocnioride			
Nitrogen oxides Hydrogen chloride (HCI)	(Contd. of page 2)		
 11 Toxicological information Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: May cause irritation Eye irritation or corrosion: May cause irritation Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Germ cell mutagenicity: No effects known. Germ cell mutagenicity: No effects known. Sensitization or corrosion: date on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. 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. 			
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.			
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, 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 MARPOL73/78 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/legislation specific for the substance or mixture GHS label elements Not applicable Hazard pictograms Not applicable Hazard statements Not applicable Hazard statements Not applicable Mational regulations This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is r 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. The product must not be used for commercial purposes or in formulations for commercial purposes. This product is not listed on the Canadian Domestic Substances List (IDSL) or the Canadian Non-Domestic Substances List (NDSL). SARA Section 313 (specific toxic chemical listings) Substance is not listed. Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity 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 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 market and use must be observed.			
Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed.			
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Product name: 1-Deoxynojirimycin hydrochloride

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 Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the use Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - Abbreviations and accoryms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) DOT: US Department of Transportation 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 LD50: 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) MTP: National Toxicology Program (USA) MTP: National Toxicology Program (USA) MARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

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USA