

Safety Data Sheet per OSHA HazCom 2012

per OSĤA HazCom 2012 Revi	ting date 11/24/2015 ewed on 11/07/2013
1 Identification	
Product identifier	
Product name: 2'-Deoxyinosine-5'-monophosphate disodium salt	
Stock number: J64271 CAS Number:	
14999-52-1 EC number:	
239-090-3	
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: 800-342-4757 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) 920	8-0789.
2 Hazard(s) identification Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS07	
Skin Irrit. 2 H315 Causes skin irritation. Eve Irrit. 2A H319 Causes serious eve 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	
\wedge	
GHS07	
Signal word Warning Hazard statements	
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. Continue rins P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rins. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.	ing.
P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.	
WHMIS classification D2B - Toxic material causing other toxic effects	
\cup	
Classification system	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH I Health (acute effects) = 1	
FIRE I Flammability = 1 REACTIVITY I 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	
Chemical characterization: Substances CAS# Description: 14999-52-1 2'-Deoxyinosine-5'-monophosphate disodium salt	
14999-52-1 2'-Deoxyinosine-5'-monophosphate disodium salt Identification number(s): EC number: 239-090-3	
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.	
	(Contd. on page 2)

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Product name: 2'-Deoxyinosine-5'-monophosphate disodium salt (Contd. of page 1) Seek immediate medical advice. 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 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: Carbon monoxide and carbon dioxide Sodium oxide Nitrogen oxides (NOx) Phosphorus oxides Phosphorus oxides 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 product to reach sewage system or any water course. Methods and material for containment and cleaning up: Ensure adequate ventilation. **Revention 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. Ensure good ventilation at the workplace. Information 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; Store in freezer (-20 °C). Information about storage in one common storage facility: Protect from heat. Store away from oxidizing agents. Further information about storage conditions: Keep container tightly sealed. 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 Personal protective equipment General protective and hygienic measures 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 hands before breaks and at the end of work. 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 nands: 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. Penetration time of glove material (in minutes) Not determined Eye protection: Safety glasses Body protection: Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Powder White to off-white Color: Odor: Odor threshold: Not determined Not determined. pH-value: Not applicable . Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Not determined Not determined Not determined

(Contd. on page 3)

Product name: 2'-Deoxyinosine-5'-monophosphate disodium salt

Information on toxicological effects Acute toxicity: No defects known. LDLC50 values that are relevant for classification: No data Skin Infration or corrosion: Causes skin inflation. Sensification vico sensitizing effects known. Carcinogenicity: No defects known. Carcinogenicity: No defects known. Septific target organ system toxicity - single exposure: No effects known. Septific target organ system toxicity - single exposure: No effects known. Septific target organ system toxicity - single exposure: May cause respiratory initiation. Aspiration toxicological information: Toxicity for the facts known. LDLC50 values that are relevant information available. Toxicity in toxicity is to advect on the unit of the baset of our knowledge the acute and chronic toxicity of this substance is not fully known. LDLC50 values that relevant information available. Bioaccumulative potential No further relevant information available. Consol allow indiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment. Petri Not applicable. Consol allow indiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment. Petri Not applicable. Consol allow indiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment. Petri Not applicable. Consol allow indiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment. Results of PET and VPAB assessment Petri Not applicable. Consol allow indiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment. Results of PET and VPAB assessment Petri Not applicable. Consol allow indivere			(Contd. of page 2)	
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Lower: Med determined Values pressure: Med applicable	Danger of explosion:	Not determined.		
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Environmental hazards: Not applicable.				
(Contd. on page 4 USA				
			(Contd. on page 4) USA	

Safety Data Sheet per OSHA HazCom 2012

Product name: 2' Decryingsing 5' monophosph	ato disodium salt
Product name: 2'-Deoxyinosine-5'-monophospha	
Special processions for year	(Contd. of page 3)
Special precautions for user Transport in bulk according to Annex II of MARPOL7	Not applicable.
Transport/Additional information:	
DOT	
Marine Pollutant (DOT):	No
UN "Model Regulation":	-
15 Regulatory information Safety, health and environmental regulations/legislat GHS label elements The product is classified and labele Hazard pictograms	<i>ion specific for the substance or mixture</i> ad in accordance with 29 CFR 1910 (OSHA HCS)
GHS07	
P304+P340 IF INHALED: Remove person to fresh P405 Store locked up. P501 Dispose of contents/container in acco National regulations This product is not listed in the U.S. Environmental Prote to research and development only. This product must be product must not be used for commercial purposes or in i This product is not listed on the Canadian Domestic Subs SARA Section 313 (specific toxic chemical listings) S California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance Prop 65 - Developmental toxicity, female Substance is Prop 65 - Developmental toxicity, male Substance is Prop 65 - Developmental toxicity, male Substance is Prop 65 - Developmental toxicity, male Substance is n Information about limitation of use: For use only by tex	 Inter for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In air and keep comfortable for breathing. International/international regulations. International control Act Chemical Substance Inventory. Use of this product is restricted used by or directly under the supervision of a technically qualified individual as defined by TSCA. This formulations for commercial purposes. International Non-Domestic Substances List (NDSL). International is not listed. Interdational is not listed.
16 Other information Employers should use this information only as a supplem information to ensure proper use and protect the health a conformance with this Material Safety Data Sheet, or in c	nent to other information gathered by them, and should make independent judgement of suitability of this and safety of employees. This information is furnished without warranty, and any use of the product not in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: ADR: Accord europen sur le transport des marchandises dangereuses par DOT: US Department of Transportation ENECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Societ HMIS: Hezardous Materials Information System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent UD50: Lethal dose, 50 percent VPWB: 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)	r Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) s ty)