

Safety Data Sheet per OSHA HazCom 2012

per OSHA HazCom 2012 Pr Re	rinting date 11/23/2015 eviewed on 10/09/2012
1 Identification Product identifier	
Product name: 2'-Deoxyadenosine-5'-monophosphate	
Stock number: J64402 CAS Number: 653-63-4 EC number:	
211-503-1 <b>Relevant identified uses of the substance or mixture and uses advised against.</b> 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: 800-343-0660	
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) 9	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: 653-63-4 2'-Deoxyadenosine-5'-monophosphate Identification number(s): EC number: 211-503-1	
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 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 for 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 Nitrogen oxides (NOx) Phosphorus oxides	am.
Advice for firefighters <b>Protective equipment:</b> Wear self-contained respirator. Wear fully protective impervious suit.	
6 Accidental release measures	
<b>Personal precautions, protective equipment and emergency procedures</b> 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.	(Contd. on page 2) USA

	Revie	wed on 10/09/2012
Product name: 2'-Deoxyadenosine-	-5'-monophosphate	
Methods and material for containme Prevention of secondary hazards: No Reference to other sections See Section 7 for information on safe h See Section 8 for information on person See Section 13 for disposal information	handling nal protection equipment.	(Contd. of page 1)
7 Handling and storage Handling Precautions for safe handling Keep of Information about protection against	container tightly sealed. st explosions and fires: No information known.	
Conditions for safe storage, includin Storage Requirements to be met by storeroo Information about storage in one con Protect from heat. Store away from oxidizing agents. Further information about storage co Keep container tightly sealed. Refrigerate Specific end use(s) No further relevant	coms and receptacles: Refrigerate common storage facility: conditions:	
8 Exposure controls/personal pro	otection	
Additional information about design Properly operating chemical fume hood	<b>1 of technical systems:</b> d designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.	
Control parameters Components with limit values that re The product does not contain any relev Additional information: No data	<b>require monitoring at the workplace:</b> vant quantities of materials with critical values that have to be monitored at the workplace.	
Keep away from foodstuffs, beverages Remove all soiled and contaminated cl Wash hands before breaks and at the e Maintain an ergonomically appropriate <b>Breathing equipment:</b> Use suitable re <b>Protection of hands:</b> Impervious gloves Check protective gloves prior to each u	handling chemicals should be followed. s and feed. Hothing immediately. end of work. working environment. espirator when high concentrations are present. use for their proper condition. hy depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. <b>in minutes)</b> Not determined	
9 Physical and chemical propertie	PS	
Information on basic physical and cl General Information Appearance:	hemical properties	
Form: Color:	Crystalline powder White	
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: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature:	Not determined Not determined Not determined Not determined Not determined	

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Flammability (solid, gaseous)	Not determined.
Ignition temperature:	Not determined Not determined
Decomposition temperatures	
Decomposition temperature:	Not determined
Auto igniting:	Not determined.
Danger of explosion: Explosion limits:	Not determined.
Lower:	Not determined
Upper:	Not determined
Vapor pressure:	Not applicable.
Density: Deletivo denoitu	Not determined
	Not determined.
Vapor density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	
Water:	Not determined
Partition coefficient (n-octanol/water):	
Viscosity:	
dynamic:	Not applicable.
kinematic:	Not applicable.
Other information	Not applicable. No further relevant information available.
10 Stability and reactivity	

## 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.

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Product name: 2'-Deoxyadenosine-5'-monophosphate  Incompatible materials: Oxidizing agents Heat Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Phosphorus oxides (e.g. P2O5)  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.	(Contd. of page 2)
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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.	
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.	
Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known.	
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: No effects known. 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: 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.	
Additiónal 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 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	
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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. Information about limitation of use: For use only by technically qualified individuals.

(Contd. on page 4) USA

## Product name: 2'-Deoxyadenosine-5'-monophosphate

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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 manufacturing, placing on 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.	<b>°</b> /
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 is conformance with this Material Safety Data Sheet, or 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 11/23/2015 / - 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) 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) WHMINS: 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) QSHA: Occupational Setty and Health Administration (USA)	

OSHA: Occupational Safety and Health Administratic NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

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