



1	Identification Product identifier
	Product name: alpha-D-Galactose pentaacetate
	Stock number: J66366 CAS Number: 4163-59-1 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: 800-343-0660 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 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: 4163-59-1 alpha-D-Galactose pentaacetate
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.
5	Indication of any immediate medical attention and special freatment needed No further relevant information available. Fire-fighting measures
J	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 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 Example 1 Ensure a several of the several examples of the several example of the several examples of the several example
	Prevention of secondary hazards: No special measures required. Reference to other sections
	See Section 7 for information on safe handling

See Section 7 for information on safe handling See Section 8 for information on personal protection equipment.

Product name: alpha-D-Galactose pentaacetate

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See Section 13 for disposal information.

See Section 13 for disposal information.						
7 Handling and storage						
Handling	Handling					
Precautions for safe handling Keep container tightly sealed.						
Store in cool, dry place in tightly closed o	ontainers.					
	explosions and fires: No information known.					
Storage	Conditions for safe storage, including any incompatibilities Storage					
Requirements to be met by storeroom	s and receptacles: No special requirements. mon storage facility: Store away from oxidizing agents.					
Further information about storage con	iditions:					
Keep container tightly sealed.	d containers					
Store in cool, dry conditions in well sealed containers. Specific end use(s) No further relevant information available.						
8 Exposure controls/personal protection						
Properly operating chemical fume hood of	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 req The product does not contain any releval	ure monitoring at the workplace: In transition of materials with critical values that have to be monitored at the workplace.					
Additional information: No data						
Exposure controls						
General protective and hygienic meas	Personal protective equipment General protective and hygienic measures					
The usual precautionary measures for ha	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 en	d of work. orking environment					
Breathing equipment: Use suitable resp	orking environment. birator when high concentrations are present.					
Recommended filter device for short t	erm use: PF (FN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-					
purifying respirators are appropriate. On	Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air- purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards.					
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. Eye protection: Safety glasses						
Body protection: Protective work clothin	ng.					
9 Physical and chemical properties						
Information on basic physical and chemical properties General Information						
Appearance:						
Form: Color:	Powder White to off-white					
Odor:	Not determined					
Odor threshold:	Not determined.					
pH-value: Change in condition	Not applicable.					
Melting point/Melting range:	143-144 °C (289-291 °F)					
Boiling point/Boiling range: Sublimation temperature / start:	Not determined					
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: Density:	Not applicable. Not determined					
Relative density Vapor density	Not determined. 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	No further relevant information available.					
10 Stability and reactivity						
10 Stability and reactivity Reactivity No information known.						
Chemical stability Stable under recomn	nended storage conditions					

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. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide

USA

11 Toxicological information 12 Toxicological information 14 Toxicological information 15 Point Page 2 14 Toxicological information 15 Point Page 2 15 Point	Product name: alpha-D-Galactose pentaacetate		(O-11/1 - (
Information on toxicological effects And Experience Sector 2011	44 Taviaslaviasl information		(Contd. of page 2)		
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Additional toxicological information 12 Ecological information Againstitution Additional ecological information Statisse effects Ne Information Additional ecological information Up ecological effects Ne Information Up ecological effe	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. Carcinogenicity: No classification data on carcinogenic properties of this mate Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Aspiration hazard: No effects known.				
Toxicity Aquadic solver, No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in solver information available. Bioaccumulative potential No further relevant information available. Construction of the solver information available. Bioaccumulative potential No further relevant information available. Construction of the solver information available. Solver adverse effects No further relevant information available. 13 Disposal considerations Waste treatment methods Waste treatment methods Waste treatment methods Unification of the solver information available. 13 Disposal considerations Waste treatment methods Waste treatment methods Waste treatment methods Unification Unification Vaste treatment methods Waste treatment methods Waste treatment methods Waste treatment methods Unification available. 14 Transport Information Unification available. Dor, ADR, MDG, IATA Not applicable Environmental hazards Not applicable <t< td=""><td colspan="5">Subacute to chronic toxicity: No effects known.</td></t<>	Subacute to chronic toxicity: No effects known.				
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Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Mecommendation: Disposal must be made according to official regulations. 14 Transport information UN-Number DOT, ADN, MDO, IATA Not applicable UN proper shipping name DOT, ADN, MDO, IATA Not applicable Transport hazard class(es) DOT, ADN, ADN, IMDO, IATA Not applicable Packing group DOT, ADN, ADN, IMDO, IATA Not applicable Packing group DOT, MDG, IATA Not applicable Packing group DOT, MDG, IATA Not applicable Special precautions for user Not applicable. Special precautions for user Not applicable. Transport/Additional information: DOT, Marine Pollutant (DOT): No UN Model Regulation? 15 Regulatory information Satety, health and environmental mark and the used by or functly under the substance or mixture GHS Babel elements Not applicable	13 Disposal considerations				
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Chemical safety assessment: A Chemical Safety Assessment has not been carried out.	Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable National 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 not 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. To 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 (DSL) 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, 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, and Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Differmation 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 manufacturing, placing market and use must be observed. Substance is not				
	Chemical safety assessment: A Chemical Safety Assessment has not been of	carried out.	USA		

Product name: alpha-D-Galactose pentaacetate

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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 11/23/2015 / - 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 concentration, 50 percent LD50: Lethal concentration of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) MTP: National Toxicology Program (USA) MARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

USA