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	Version 1
1 Identification	
Product identifier	
Product name: 2,3:4,6-Di-O-isopropylidene-alpha-L-sorbofuranose Stock number: J66190	
CAS Number: 17682-70-1	
EC number: 605-783-8	
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 as hazardous according to 29 CFR 1910 (OSHA GHS). Hazards not otherwise classified No information known.	
Label elements GHS label elements Not applicable	
Hazard pictograms Not applicable Signal word Not applicable	
Hard 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: 17682-70-1 2,3:4,6-Di-O-isopropylidene-alpha-L-sorbofuranose Concentration: ≤100%	
Identification number(s): EC number: 605-783-8	
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 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	
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.	(Contd. on page 2)
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Methods and material for containmen Prevention of secondary hazards: No Reference to other sections See Section 7 for information on safe ha See Section 8 for information on persona See Section 13 for disposal information. Protective Action Criteria for Chemica PAC-1: Substance is not listed. PAC-3: Substance is not listed.	andling al protection equipment.	(Contd. of page 1)
Conditions for safe storage, including Storage Requirements to be met by storeroon	explosions and fires: No information known. g any incompatibilities ns and receptacles: No special requirements. mon storage facility: Store away from oxidizing agents. nditions:	
Control parameters Components with limit values that red	of technical systems: designed for hazardous chemicals and having an average face velocity of at least 100 feet per minut	e.
Exposure controls Personal protective equipment General protective and hygienic meas The usual precautionary measures for h Keep away from foodstuffs, beverages a Remove all soiled and contaminated clo Wash hands before breaks and at the et Maintain an ergonomically appropriate w Breathing equipment: Use suitable respirator when high conce Use suitable respiratory protective devic Recommended filter device for short to Use a respirators are appropriate. Or Performing the and to the short of the	sures andling chemicals should be followed. Ind feed. thing immediately. nd of work. vorking environment. encrase of insufficient ventilation. term use: PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed nly use equipment tested and approved under appropriate government standards. we for their proper condition.	to determine if air-
Glove thickness: 0.11 mm Eye protection: Safety glasses with side Body protection: Protective work clothi	e shields / NIOSH (US) or EN 166(EU) ing.	
9 Physical and chemical properties		
Information on basic physical and che General Information Appearance: Form: Odor:	Powder Not determined	
Odor threshold: pH-value:	Not determined. Not applicable.	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	75-80 °C (167-176 °F) Not determined Not determined Not determined Not determined Not determined Not determined Not determined	
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water).	Not determined. Not determined Not determined Not applicable. Not determined. Not applicable. Not applicable. Not determined. Not determined.	
		(Contd. on page 3) USA

Product name: 2,3:4,6-Di-O-isopropylidene-al	pha-L-sorbofuranose
	(Contd. of page 2
Viscosity: dynamic: Not applica kinematic: Not applica Other information No further i	ble. ble. relevant information available.
10 Stability and reactivity	
Reactivity No information known. Chemical stability Stable under recommended stora Thermal decomposition / conditions to be avoide Possibility of hazardous reactions Reacts with stra Conditions to avoid No further relevant information Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon mon	
11 Toxicological information	
Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for classification 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 carcinoge Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated e Specific target organ system toxicity - single exp Aspiration hazard: No effects known.	enic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.
Subacute to chronic toxicity: No effects known.	of our knowledge the acute and chronic toxicity of this substance is not fully known.
Aquatic toxicity: No further relevant information aver Persistence and degradability No further relevant infor Bioaccumulative potential No further relevant infor Mobility in soil No further relevant information avails Additional ecological information: General notes: Do not allow undiluted product or large quantities to a Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information	mation available. able. reach ground water, water course or sewage system.
13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national re Uncleaned packagings: Recommendation: Disposal must be made accordin	
14 Transport information	
UN-Number DOT, ADN, IMDG, IATA	Not applicable
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	Not applicable
Transport hazard class(es)	
DOT, ADR, ADN, IMDG, IATA Class	Not applicable
Packing group DOT, ADR, IMDG, IATA	Not applicable
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARP Transport/Additional information:	DL73/78 and the IBC Code Not applicable.
DOT Marine Pollutant (DOT):	No
UN "Model Regulation":	Not applicable
15 Regulatory information Safety, health and environmental regulations/legi GHS label elements Not applicable Hazard pictograms Not applicable Signal word biot applicable	islation specific for the substance or mixture

Hazard statements Not applicable Signal word Not applicable Hazard statements Not applicable Hazard

(Contd. on page 4)



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(Contd. of per 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. California Proposition 65 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 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 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.	
<ul> <li>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 conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.     </li> <li>Department issuing SDS: Global Marketing Department         Date of preparation/Revision: Print date, revision date and version number are in the header of each page.         Abbreviations and acronyms:         ADR: Accord europeens 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 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 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 Transport desting Commercial Chemical Substances         ECAS: Chemical Abstracts Service (division of the American Chemical Society)         HMIS: Hazardous Materials Identification System (Canada)         LCSO: Lethal doncentration, 50 percent         DET: Persistent, Bioaccumulative and Toxic         SU4: Substances of Very High Concern         VP2: very Persistent and very Bioaccumulative         ACGIN: American Conference of Very High Concern         VP2: very Persistent and Health Administration (USA)         MACGIN: American Conference of</li></ul>	s in