

SAFETY DATA SHEET

Revision Date 24-Dec-2021

Revision Number 5

1. Identification **Product Name Diacetone-D-glucose** Cat No. : AC112010000; AC112010250; AC112011000; AC112015000 CAS No 582-52-5 **Synonyms** 1,2:5,6-Diisopropylidene-D-glucose **Recommended Use** Laboratory chemicals. Food, drug, pesticide or biocidal product use. Uses advised against Details of the supplier of the safety data sheet Company Acros Organics Fisher Scientific Company One Reagent Lane One Reagent Lane Fair Lawn, NJ 07410 Fair Lawn, NJ 07410

Emergency Telephone Number

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification

Tel: (201) 796-7100

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements
None required

<u>Hazards not otherwise classified (HNOC)</u> None identified

3. Composition/Information on Ingredients

Component .alphaD-Glucofuranose, 1,2:5,6-bis-O-(1-methylethylidene)-		CAS No	Weight %	
		582-52-5	> 95	
	4.	First-aid measures		
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Gemedical attention.			
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention.			
Inhalation	Remove from exposure, lie down. Remove to fresh air. Get medical attention.			
Ingestion	Clean mouth with water. Get medical attention.			
Most important symptoms and	No information available.			
effects Notes to Physician	Treat symptomatically			
	5. Fii	re-fighting measures		
Suitable Extinguishing Media	Water spray. Carbon dioxide (CO 2). Dry chemical. Chemical foam.			
Unsuitable Extinguishing Media	No informatio	on available		
Flash Point Method -	No information available No information available			

metriod	
Autoignition Temperature	Not applicable
Explosion Limits	
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO₂).

Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA Health 0	Flammability 1	Instability 1	Physical hazards N/A
	6. Accidental re	elease measures	
Personal Precautions Environmental Precautions		on. Use personal protective equip onal Ecological Information.	ment as required.

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Up

	7. Handling and storage
Handling	Avoid contact with skin and eyes. Do not breathe dust. Avoid contact with skin and clothing. Wash thoroughly after handling.
Storage.	Keep container tightly closed in a dry and well-ventilated place. To maintain product quality: Store in freezer. Store under an inert atmosphere. Incompatible Materials. Strong oxidizing agents.
8. E	xposure controls / personal protection
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.
Engineering Measures	None under normal use conditions.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	No protective equipment is needed under normal use conditions.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical	and chemical properties
Physical State	Powder Solid
Appearance	Light yellow
Odor	Odorless
Odor Threshold	No information available
рН	No information available
Melting Point/Range	107 - 110 °C / 224.6 - 230 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	Soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	Not applicable
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C12 H20 O6
Molecular Weight	260.28

10. Stability and reactivity

Reactive Hazard

None known, based on information available

Stability	Hygroscopic.		
Conditions to Avoid	Incompatible products. Exposure to moisture.		
Incompatible Materials	Strong oxidizing agents		
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2)			
Hazardous Polymerization	No information available.		
Hazardous Reactions	None under normal processing.		

11. Toxicological information

Acute Toxicity

Product Information Component Information Toxicologically Synergistic Products	No information available
Delayed and immediate effects as w	vell as chronic effects from short and long-term exposure
Irritation	No information available

Sensitization

No information available

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
.alphaD-Glucofurano	582-52-5	Not listed	Not listed	Not listed	Not listed	Not listed
se, 1,2:5,6-bis-O-(1-methy						
lethylidene)-						
Mutagenic Effects		No information ava	ailable			
Reproductive Effect	s	No information available.				
Developmental Effe	cts	No information ava	ailable.			
Teratogenicity		No information ava	ailable.			
STOT - single expos STOT - repeated exp		None known None known				
Aspiration hazard		No information available				
Symptoms / effects delayed	,both acute and	nd No information available				
Endocrine Disrupto	r Information	No information available				
Other Adverse Effect	cts	The toxicological properties have not been fully investigated.				
		12. Ecol	ogical infor	mation		
Ecotoxicity Do not empty into dra	ains.					
Persistence and De	gradability	Soluble in water P	ersistence is unlike	ely based on inforn	nation available.	

Bioaccumulation/ Accumulation No information available.

Mobility	Will likely be mobile in the environment due to its water solubility.			
	13. Disposal considerations			
Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.			
	14. Transport information			
DOTTDG	Not regulated			
TDG	Not regulated			
ΙΑΤΑ	IATA Not regulated			
IMDG/IMO	Not regulated			
	15. Regulatory information			

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
.alphaD-Glucofuranose, 1,2:5,6-bis-O-(1-methylethylidene) -	582-52-5	Х	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
.alphaD-Glucofuranose,	582-52-5	-	Х	209-486-0	Х	Х	Х	Х	Х	KE-10954
1,2:5,6-bis-O-(1-methylethylidene)										

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know	Not applicable

Regulations

U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	
Mexico - Grade	No information available

Authorisation/Restrictions according to EU REACH

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
.alphaD-Glucofuranose, 1,2:5,6-bis-O-(1-methylethylid ene)-	582-52-5	Not applicable	Not applicable	Not applicable	Not applicable

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	(2012/18/EC) -	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
.alphaD-Glucofuranose, 1,2:5,6-bis-O-(1-methylethylid ene)-	582-52-5	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information			
Prepared By	Regulatory Affairs Thermo Fisher Scientific		
	Email: EMSDS.RA@thermofisher.com		
Revision Date	24-Dec-2021		
Print Date	24-Dec-2021		
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).		

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS