

# SAFETY DATA SHEET

Revision Date 01-Apr-2024

**Revision Number** 3

## 1. Identification

## **Product Name**

# 4,6-O-Isopropylidene-D-glucal

## Cat No. : H60221

CAS No Synonyms

Recommended Use Uses advised against No information available Laboratory chemicals. Food, drug, pesticide or biocidal product use.

51450-36-3

## Details of the supplier of the safety data sheet

## <u>Company</u>

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757

## **Emergency Telephone Number**

For information **US** call: 001-800-227-6701 / **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**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious Eye Damage/Eye Irritation

Category 2

## Label Elements

Signal Word Warning

Hazard Statements Causes serious eye irritation



# Precautionary Statements Prevention Wash face, hands and any exposed skin thoroughly after handling Wear eye/face protection Eyes IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention Hazards not otherwise classified (HNOC)

None identified

# 3. Composition/Information on Ingredients

Component	CAS No	Weight %	
4,6-O-Isopropylidene-D-glucal	51450-36-3	<=100	

4. First-aid measures		
General Advice	If symptoms persist, call a physician.	
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.	
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.	
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.	
Ingestion	Clean mouth with water and drink afterwards plenty of water.	
Most important symptoms and	None reasonably foreseeable.	
effects Notes to Physician	Treat symptomatically	

5. Fire-fighting measures

Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No information available 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 (CO<sub>2</sub>).

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.

<u>NFPA</u> Health 2	Flammability 1	Instability 0	Physical hazards -
	6. Accidental re	lease measures	
Personal Precautions Environmental Precautions		n. Use personal protective equertion of the environment. See Section	

Methods for Containment and Clean Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Up

	7. Handling and storage	
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation.	
Storage.	Keep refrigerated.	
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	Ensure that eyewash stations and safety showers are close to the workstation location.	
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	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.	
Recommended Filter type:	Organic gases and vapours filter. Type A. Brown. conforming to EN14387.	
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.	
	9. Physical and chemical properties	
Physical State Appearance Odor Odor Threshold pH	Liquid Viscous liquid Colorless - Light yellow No information available No information available No information available	

Melting Point/Range Boiling Point/Range
Flash Point
Evaporation Rate
Flammability (solid,gas)
Flammability or explosive limits
Upper
Lower
Vapor Pressure
Vapor Density
Specific Gravity
Solubility
Partition coefficient; n-octanol/water
Autoignition Temperature
Decomposition Temperature
Viscosity
Molecular Formula
Molecular Weight

No data available No information available No information available No information available Not applicable

No data available No data available No information available No information available No information available No data available No information available No information available No information available C9 H14 O4 186.21

# 10. Stability and reactivity

Reactive Hazard	None known, based on information available	
Stability	Stable under normal conditions.	
Conditions to Avoid	Incompatible products.	
Incompatible Materials	Strong oxidizing agents	
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2)		
Hazardous Polymerization Hazardous polymerization does not occur.		
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	ell 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
4,	6-O-Isopropylidene-	51450-36-3	Not listed	Not listed	Not listed	Not listed	Not listed
D-glucal							
Mutagenic Effects			No information available				
Reproductive Effects		No information available.					
Developmental Effects		No information available.					
Teratogenicity			No information available.				
<b>U</b> ,							

STOT - single exposure STOT - repeated exposure	None known None known	
Aspiration hazard	No information available	
Symptoms / effects,both acute and delayed	No information available	
Endocrine Disruptor Information	No information available	
Other Adverse Effects	The toxicological properties have not been fully investigated.	
	12. Ecological information	
Ecotoxicity Do not empty into drains.		
Persistence and Degradability No information available		
<b>Bioaccumulation/ Accumulation</b>	Sioaccumulation / Accumulation No information available.	
Mobility	No information available.	
	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	

	14. Transport information	
DOT	Not regulated	
DOT TDG IATA	Not regulated	
IATA	Not regulated	
IMDG/IMO	Not regulated	
15. Regulatory information		

national hazardous waste regulations to ensure complete and accurate classification.

## United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
4,6-O-Isopropylidene-D-glucal	51450-36-3	-	-	-

#### Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

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
4,6-O-Isopropylidene-D-glucal	51450-36-3	-	-	-	-	-		-	-	-

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

#### U.S. Federal Regulations

## SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
<b>OSHA</b> - Occupational Safety and Health Administration	Not applicable

#### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65	This product does not contain any Proposition 65 chemicals			
U.S. State Right-to-Know Regulations	Not applicable			
<b>U.S. Department of Transportation</b> Reportable Quantity (RQ):	Ν			
DOT Marine Pollutant	N			
DOT Severe Marine Pollutant	Ν			
U.S. Department of Homeland	This product does not contain any DHS chemicals.			

Security

Other International Regulations

Mexico - Grade

No information available

#### Authorisation/Restrictions according to EU REACH

Not applicable

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
4,6-O-Isopropylidene-D-glucal	51450-36-3	-	-	-

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

Component CAS	OECD HPV	OECDI	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous
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					Substances (RoHS)
4,6-O-Isopropylidene-D-glucal	51450-36-3	Not applicable	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

## **Other International Regulations**

	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)
4,	6-O-Isopropylidene-D-glucal	51450-36-3	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Health, Safety and Environmental Department Email: chem.techinfo@thermofisher.com www.thermofisher.com
Revision Date Print Date Revision Summary	01-Apr-2024 01-Apr-2024 New emergency telephone response service provider.

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**