

Product identifier

Other hazards Not available



# SAFETY DATA SHEET

1. Identification

Preparation Date: 2/19/2018 Revision date 11/28/2018 **Revision Number: G1** 

**Product code:** D2203 2,6-DI-O-METHYL-BETA-CYCLODEXTRIN **Product Name:** Other means of identification Dimethyl-beta-cyclodextrin Synonyms: Heptakis-2,6-di-O-methyl-beta-cyclodextrin 51166-71-3 CAS #: GU2293500 RTECS# Not available CI#: Recommended use of the chemical and restrictions on use Recommended use: No information available. No information available Uses advised against Spectrum Chemical Mfg. Corp Supplier: 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000 https://www.spectrumchemical.com Order Online At: Chemtrec 1-800-424-9300 Emergency telephone number Martin LaBenz (West Coast) **Contact Person:** Ibad Tirmiz (East Coast) **Contact Person:** 2. HAZARDS IDENTIFICATION Classification This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) Not a dangerous substance or mixture according to the Globally Harmonized System (GHS) Label elements Not classified Hazards not otherwise classified (HNOC) Not Applicable

Product code: D2203 **Product name:** 

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula:	CAS No	Weight-%
2,6-Di-O-methyl-beta-cyclodextrin	51166-71-3	100

#### 4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you

have a poison emergency and need to talk to a poison specialist. Call

1-800-222-1222.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothing and

shoes. Get medical attention if irritation develops. Consult a physician if necessary.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms

persist, call a physician.

**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Get medical attention.

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms Health injuries are not known or expected under normal use

May cause eye/skin/respiratory tract irritation

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

**Protection of first-aiders** 

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

### 5. FIRE-FIGHTING MEASURES

**Extinguishing Media** 

Suitable Extinguishing Media: Dry chemical. Carbon dioxide (CO2). Water spray, mist, or

foam.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

**Hazardous combustion products**Carbon monoxide. Carbon dioxide (CO2).

**Specific Methods:** May be combustible at high temperatures.

**Special Protective Actions for Firefighters** 

**Product code:** D2203 **Product name:** 2.6-DI-O-METHYL-BETA-CYCLODEXT

Specific Methods: No information available

**Special Protective Equipment for Firefighters:** As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

Page

and full protective gear

### 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal Precautions:** Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin,

eyes and clothing. Remove all sources of ignition.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Prevent product from entering

drains. Prevent entry into waterways, sewers, basements or confined areas.

### Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Cover with plastic sheet to prevent

spreading.

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Clean contaminated

surface thoroughly.

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

#### **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

### Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not ingest. Do not breathe dust. Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

### **Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

### **Incompatible Materials:**

Strong oxidizing agents

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

### National occupational exposure limits

### **United States**

Formula:	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
2,6-Di-O-methyl-beta-cy	51166-71-3	None	None	None	None
clodextrin					

Product code: D2203 Product name:

#### Canada

Formula:	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
2,6-Di-O-methyl-beta-cy clodextrin	51166-71-3	None	None	None	None

#### **Australia and Mexico**

Formula:	CAS No	Australia	Mexico
2,6-Di-O-methyl-beta-cyclodextrin	51166-71-3	None	None

### Appropriate engineering controls

**Engineering measures to reduce exposure:** Ensure adequate ventilation Use process enclosures, local

exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants

below the exposure limit.

### Individual protection measures, such as personal protective equipment

### **Personal Protective Equipment**

**Eye protection:** Goggles or Safety glasses with side-shields.

Skin and body protection: Gloves

Chemical resistant apron Long sleeved clothing

**Respiratory protection:** Effective dust mask. Use a dust respirator under conditions where exposure to

the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified

respirator or equivalent.

**Hygiene measures:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and

immediately after handling the product When using, do not eat, drink or smoke.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Appearance: Color:

Solid Powder. White. Off-white.

Odor:TasteFormula:No information available.No information available.C56H98O35

Molecular/Formula weight (g/mole): Flammability (solid, gas) Flashpoint (°C/°F):

no data available No information available

Flash Point Tested according to: Autoignition Temperature (°C/°F): Lower Explosion Limit (%): Not available

No information available

No information available

Upper Explosion Limit (%): Melting point/range(°C/°F): Decomposition temperature(°C/°F):

No information available 298-310°C/568.4-590°F No information available

Product code: D2203 Product name: Page

2,6-DI-O-METHYL-BETA-CYCLODEXT

Boiling point/range(°C/°F): **Bulk density:** Density (g/cm3):

No information available No information available No information available

Specific gravity:

No information available No information available No information available

**Evaporation rate:** Vapor density:

VOC content (g/L): No information available No information available No information available

Odor threshold (ppm): Partition coefficient **Viscosity:** 

No information available No information available (n-octanol/water):

No information available

Miscibility: Solubility: Soluble in Water No information available

Soluble in Methanol

# 10. STABILITY AND REACTIVITY

Vapor pressure @ 20°C (kPa):

Reactivity

No information available

**Chemical stability** 

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Avoid dust formation. Incompatible materials.

**Incompatible Materials:** Strong oxidizing agents

Hazardous decomposition

products:

Carbon monoxide. Carbon dioxide.

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

# 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Principal Routes of Exposure:** Skin. Eyes. Inhalation. Ingestion.

**Acute Toxicity** 

# **Component Information**

2,6-Di-O-methyl-beta-cyclodextrin

CAS No 51166-71-3

LD50/oral/rat = No information available

LD50/oral/mouse = >3000 mg/kg

**LD50/dermal/rabbit** = No information available

Product code: D2203 **Product name:** 2,6-DI-O-METHYL-BETA-CYCLODEXT Page

LD50/dermal/rat = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50information = No information available

### **Product Information**

LD50/oral/rat =

Value No information available

LD50/oral/mouse =

Value - Acute Tox Oral = >3000 mg/kg

LD50/dermal/rabbit

Value No information available

LD50/dermal/rat

**VALUE -Acute Tox Dermal =** No information available

LC50/inhalation/rat

VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

**Symptoms** 

**Skin Contact:** May cause skin irritation.

**Eye Contact:** May cause eye irritation.

**Inhalation** May cause irritation of respiratory tract.

**Ingestion** May cause digestive (gastointestinal) tract irritation. Health injuries are not known

or expected under normal use.

**Aspiration hazard** No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Chronic Toxicity** No information available.

**Sensitization:** No information available.

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic.

Formula:	CAS No	IARC	ACGIH -	NTP	OSHA HCS -	Australia -	Australia -
			Carcinogens		Carcinogens	Notifiable	Prohibited
			_		_	Carcinogenic	Carcinogenic

Product code: D2203 Product name: 2,6-DI-O-METHYL-BETA-CYCLODEXT

						Substances	Substances
2,6-Di-O-methyl-beta-cyclod	51166-71-3	Not listed					
extrin							

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity No data is available

Reproductive Effects: No information available Developmental Effects: No information available Teratogenic Effects: No information available

**Specific Target Organ Toxicity** 

STOT - single exposure
STOT - repeated exposure
Target Organs:

No information available.
No information available.

# 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

**Ecotoxicity effects:** No data available.

Persistence and degradability: No information available

**Bioaccumulative potential:** No information available.

Mobility in soilNo information availableOther adverse effectsNo information available.

# 13. DISPOSAL CONSIDERATIONS

### **Disposal Methods**

# Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

### Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Formula:	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
2,6-Di-O-methyl-beta-cyclode	51166-71-3				None
xtrin					

# 14. TRANSPORT INFORMATION

DOT

**Product code:** D2203 **Product name:** 2,6-DI-O-METHYL-BETA-CYCLODEXT

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class
Subsidiary Class
Packing group:
No information available

Number

Marine Pollutant No data available

DOT RQ (lbs):No information availableSpecial ProvisionsNo Information availableSymbol(s):No information availableDescription:No information available

TDG (Canada)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class
Subsidiary Risk:
Packing Group:
Marine Pollutant
Description:
No information available
No information available
No Information available
No information available

**ADR** 

UN Number

Proper Shipping Name:
Transport hazard class(es)
Packing group
Subsidiary Risk:

No information available
No information available
No information available

**IMDG** 

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Marine Pollutant

No information available
No information available
No information available
No information available

RID

UN Number Not Regulated

Proper Shipping Name:
Transport hazard class(es)
Subsidiary Risk:
Packing group

No information available
No information available
No information available
No information available

ICAO (air)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class
Subsidiary Risk:
Packing Group:

No information available
No information available
No information available

**IATA** 

UN Number Not Regulated

Proper Shipping Name:
Transport hazard class(es)
Subsidiary Risk:
Packing group

No information available
No information available
No information available
No information available

Product code: D2203 Product name:

Precautionary Statements - IF exposed or concerned

Response

**Special Provisions** 

No information available

### 15. REGULATORY INFORMATION

### International Inventories

Formula:	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia AICS	EINECS-No.
2,6-Di-O-methyl-beta-c yclodextrin	51166-71-3	Not Listed	Not present	Not present	Not present	Not listed	Not listed	Not present

# **U.S. Regulations**

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

### Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

# Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Formula:	CAS No	Carcinogen	Developmental Toxicity	Male	Female
				Reproductive	Reproductive
				Toxicity	Toxicity:
2,6-Di-O-methyl-beta-cyclodextrin	51166-71-3	Not Listed	Not Listed	Not Listed	Not Listed

### **CERCLA/SARA**

Formula:	CAS No	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
2,6-Di-O-methyl-bet a-cyclodextrin	51166-71-3	None	None	None	None	None

### U.S. TSCA

Formula:		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
2,6-Di-O-methyl-beta-cyclodextrin	51166-71-3	Not Applicable	Not Applicable

### Canada

# WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Not a dangerous product according to HPR classification criteria.

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

Product code: D2203 **Product name:** 2,6-DI-O-METHYL-BETA-CYCLODEXT

#### **DSL/NDSL**

Formula:	CAS No	Canada (DSL)	Canada (NDSL)
2,6-Di-O-methyl-beta-cyclodextrin	51166-71-3	Not Listed	Not Listed

Formula:	CAS No	CEPA Schedule I - Toxic Substances
2,6-Di-O-methyl-beta-cyclodextrin	51166-71-3	Not listed
Formula:	CAS No	CEPA - 2010 Greenhouse Gases Subject
		to Mandatory Reporting
2,6-Di-O-methyl-beta-cyclodextrin	51166-71-3	Not listed

#### **EU Classification**

#### EU GHS - SV - CLP 1272/2008

Formula:	CAS No	EU GHS - SV - CLP (1272/2008)
2,6-Di-O-methyl-beta-cyclodextrin	51166-71-3	

#### EU - CLP (1272/2008)

#### R-phrase(s)

not determined (not applicable)

### S -phrase(s)

none

Formula:	CAS No	Classification	Concentration Limits:	Safety Phrases
2,6-Di-O-methyl-beta-cycl	51166-71-3		No information	
odextrin				

The product is classified in accordance with Annex VI to Directive 67/548/EEC

### Indication of danger:

None

# **16. OTHER INFORMATION**

Preparation Date: 2/19/2018
Revision date 11/28/2018
Prepared by: Sonia Owen

**Disclaimer:** All chemicals may pose unknown hazards and should be used with caution. This

Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal

Product code: D2203 Product name: 2.6-DI-O-METHYL-BETA-CYCLODEXT

protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet**