# SIGMA-ALDRICH

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SAFETY DATA SHEET

Version 3.4 Revision Date 06/26/2014 Print Date 11/10/2018

1.1	Product identifiers Product name	<sup>:</sup> Isosorbide dimethyl ether			
	Product Number Brand	: 247898 : Aldrich			
	CAS-No.	: 5306-85-4			
1.2	Relevant identified uses of the substance or mixture and uses advised against				
	Identified uses	: Laboratory chemicals, Manufacture of substances			
1.3	Details of the supplier of the safety data sheet				
	Company	: Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA			
	Telephone Fax	: +1 800-325-5832 : +1 800-325-5052			
1.4	Emergency telephone number				
	Emergency Phone #	: +1-703-527-3887 (CHEMTREC)			
2. HA	ZARDS IDENTIFICATION	1			
2.1	Classification of the substance or mixture				
	Not a hazardous substance or mixture.				
2.2	GHS Label elements, including precautionary statements				
	Not a hazardous substance or mixture.				
2.3	Hazards not otherwise classified (HNOC) or not covered by GHS - none				
3. CC	OMPOSITION/INFORMATI	ON ON INGREDIENTS			
3.1	Substances Synonyms	<ul> <li>1,4:3,6-Dianhydro-2,5-di-O-methyl-D-glucitol</li> <li>2,5-Di-O-methyl-1,4:3,6-dianhydro-D-glucitol</li> <li>1,4:3,6-Dianhydrosorbitol 2,5-dimethyl ether</li> <li>Dimethyl isosorbide</li> </ul>			
	Formula Molecular Weight CAS-No. EC-No.	: C <sub>8</sub> H <sub>14</sub> O <sub>4</sub> : 174.19 g/mol : 5306-85-4 : 226-159-8			
	No ingredients are hazardous according to OSHA criteria. No components need to be disclosed according to the applicable regulations.				

## 4. FIRST AID MEASURES

## 4.1 Description of first aid measures

## If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

## In case of skin contact

Wash off with soap and plenty of water.

# In case of eye contact

Flush eyes with water as a precaution.

## If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

## 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**4.3** Indication of any immediate medical attention and special treatment needed no data available

# **5. FIREFIGHTING MEASURES**

## 5.1 Extinguishing media

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture Carbon oxides

#### **5.3** Advice for firefighters Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information no data available

# 6. ACCIDENTAL RELEASE MEASURES

- 6.1 **Personal precautions, protective equipment and emergency procedures** Avoid breathing vapours, mist or gas. For personal protection see section 8.
- 6.2 Environmental precautions Do not let product enter drains.
- **6.3 Methods and materials for containment and cleaning up** Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections For disposal see section 13.

# 7. HANDLING AND STORAGE

## 7.1 Precautions for safe handling Normal measures for preventive fire protection. For precautions see section 2.2.

**7.2** Conditions for safe storage, including any incompatibilities Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

## 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1 Control parameters

# Components with workplace control parameters

Contains no substances with occupational exposure limit values.

# 8.2 Exposure controls

**Appropriate engineering controls** General industrial hygiene practice.

## Personal protective equipment

# Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

## **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

## **Body Protection**

impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

# **Respiratory protection**

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

# Control of environmental exposure

Do not let product enter drains.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# 9.1 Information on basic physical and chemical properties

	a)	Appearance	Form: clear, liquid Colour: colourless			
	b)	Odour	no data available			
	c)	Odour Threshold	no data available			
	d)	рН	no data available			
	e)	Melting point/freezing point	no data available			
	f)	Initial boiling point and boiling range	93 - 95 °C (199 - 203 °F) at 0.1 hPa (0.1 mmHg) - lit.			
	g)	Flash point	120 °C (248 °F) - closed cup			
	h)	Evapouration rate	no data available			
	i)	Flammability (solid, gas)	no data available			
	j)	Upper/lower flammability or explosive limits	no data available			
	k)	Vapour pressure	no data available			
	I)	Vapour density	no data available			
	m)	Relative density	1.15 g/mL at 25 °C (77 °F)			
	n)	Water solubility	no data available			
	o)	Partition coefficient: n-	no data available			
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octanol/waterp)Auto-ignition<br/>temperatureno data availableq)Decomposition<br/>temperatureno data availabler)Viscosityno data availables)Explosive propertiesno data availablet)Oxidizing propertiesno data available

# 9.2 Other safety information no data available

# **10. STABILITY AND REACTIVITY**

## 10.1 Reactivity no data available

- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** no data available
- **10.4 Conditions to avoid** no data available
- **10.5** Incompatible materials Strong oxidizing agents
- 10.6 Hazardous decomposition products Other decomposition products - no data available In the event of fire: see section 5

# 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

# Acute toxicity

no data available

Inhalation: no data available

Dermal: no data available

no data available

Skin corrosion/irritation no data available

Serious eye damage/eye irritation no data available

**Respiratory or skin sensitisation** no data available

## Germ cell mutagenicity

no data available

#### Carcinogenicity

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a

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known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

## **Reproductive toxicity**

no data available

no data available

Specific target organ toxicity - single exposure no data available

Specific target organ toxicity - repeated exposure no data available

Aspiration hazard no data available

## **Additional Information**

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

# **12. ECOLOGICAL INFORMATION**

#### 12.1 Toxicity

no data available

- 12.2 Persistence and degradability no data available
- **12.3 Bioaccumulative potential** no data available

#### **12.4 Mobility in soil** no data available

12.5 Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

## 12.6 Other adverse effects

no data available

# 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

# Contaminated packaging

Dispose of as unused product.

# 14. TRANSPORT INFORMATION

#### **DOT (US)** Not dangerous goods

**IMDG** Not dangerous goods

IATA Not dangerous goods

## **15. REGULATORY INFORMATION**

# SARA 302 Components

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SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

# SARA 311/312 Hazards

No SARA Hazards

## **Massachusetts Right To Know Components** No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components						
1,4:3,6-Dianhydro-2,5-di-O-methyl-D-glucitol	CAS-No. 5306-85-4	Revision Date				
New Jersey Right To Know Components						
1,4:3,6-Dianhydro-2,5-di-O-methyl-D-glucitol	CAS-No. 5306-85-4	Revision Date				

## California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

# **16. OTHER INFORMATION**

HMIS Rating	
Health hazard:	0
Chronic Health Hazard:	
Flammability:	1
Physical Hazard	0
NFPA Rating	
Health hazard:	0
Fire Hazard:	1
Reactivity Hazard:	0

#### Further information

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# **Preparation Information**

Sigma-Aldrich Corporation Product Safety – Americas Region 1-800-521-8956

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