# 1. PRODUCT

## **1.1 Product identifiers**

Name: 1,2-Dimethoxypropane

CAS-No.: 7778-85-0

# 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

### 2. HAZARDS IDENTIFICATION

## 2.1 Classification of the substance or mixture

## GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 2), H225

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 2.2 GHS Label elements, including precautionary statements

Pictogram	
Signal word	Danger
Hazard statement(s)	H225 Highly flammable liquid and vapour.
Precautionary statement(s)	<ul> <li>P210 Keep away from heat/sparks/open flames/hot surfaces No smoking.</li> <li>P233 Keep container tightly closed.</li> <li>P240 Ground/bond container and receiving equipment.</li> <li>P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.</li> <li>P242 Use only non-sparking tools.</li> <li>P243 Take precautionary measures against static discharge.</li> <li>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</li> <li>P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.</li> <li>P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.</li> <li>P403 + P235 Store in a well-ventilated place. Keep cool.</li> <li>P501 Dispose of contents/ container to an approved waste disposal plant.</li> </ul>

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

May form explosive peroxides.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

## 3.1 Substances

Synonyms:	Propylene glycol dimethyl ether
Formula:	$C_5H_{12}O_2$
CAS-No.:	7778-85-0
EC-No.:	404-630-0

### Hazardous components

Component	Classification	Concentration
1,2-Dimethoxypropane	$\sim$	
	Flam, Lig. 2: H225	-

### 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

## If inhaled

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

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

## In case of eye contact

Flush eyes with water as a precaution.

### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### 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

#### 4.2 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

Use water spray to cool unopened containers.

### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate

personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

For personal protection see section 8.

#### **6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

#### 6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in

container for disposal according to local regulations (see section 13).

#### 6.4 Reference to other sections

# 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid inhalation of vapour or mist.

Use explosion-proof equipment.Keep away from sources of ignition - No smoking.Take measures to prevent the build

up of electrostatic charge.

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

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of

workday.

## Personal protective equipment

Eye/face protection	Face shield and safety glasses 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, Flame retardant antistatic protective 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	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Control of environmen tal exposure	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance	Form: liquid Colour: colourless
Odour	no data available
Odour Threshold	no data available
рН	no data available
Melting point/freezing point	no data available
Initial boiling point and boiling range	96 °C (205 °F) - lit.
Flash point	1 °C (34 °F) - closed cup

Evaporation rate	no data available
Flammability (solid, gas)	no data available
Upper/lower flammability or explosive limits	no data available
Vapour pressure	53 hPa (40 mmHg) at 20 °C (68 °F)
Vapour density	no data available
Relative density	0.855 g/cm3 at 25 °C (77 °F)
Water solubility	no data available
Partition coefficient: n-octanol/water	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no 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

Vapours may form explosive mixture with air.

### 10.4 Conditions to avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight.

## 10.5 Incompatible materials

Strong oxidizing agentsStrong oxidizing agents, Strong acids

## **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	63
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	

probable, possible or confirmed hu ACGIH: No component of this pro carcinogen or potential carcinoger NTP: No component of this produc known or anticipated carcinogen b	duct present at levels greater than or equal to 0.1% is identified as a n by ACGIH. ct present at levels greater than or equal to 0.1% is identified as a by NTP. luct present at levels greater than or equal to 0.1% is identified as a
Reproductive toxicity	
no data available no data available	, Su
Specific target organ toxicity	/ -single exposure
no data available	
Specific target organ toxicity	/ -repeated exposure
no data available	
Aspiration hazard	
no data available	65
Additional Information	
RTECS: TY1145000 To the best of our knowledge, the investigated.	chemical, physical, and toxicological properties have not been thoroughly

## **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

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

#### Contaminated packaging

Dispose of as unused product.

## **14. TRANSPORT INFORMATION**

# DOT (US)

UN number: 3271 Class: 3 Packing group: II

Proper shipping name: Ethers, n.o.s.

Marine pollutant: No

Poison Inhalation Hazard: No

# IMDG

UN number: 3271 Class: 3 Packing group: II EMS-No: F-E, S-D

Proper shipping name: ETHERS, N.O.S. (1,2-Dimethoxypropane)

Marine pollutant: No

# ΙΑΤΑ

UN number: 3271 Class: 3 Packing group: II

Proper shipping name: Ethers, n.o.s. (1,2-Dimethoxypropane)

# **15. REGULATORY INFORMATION**

### SARA 302 Components

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

Fire Hazard

## Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

## Pennsylvania Right To Know Components

Component	CAS-No.	Revision Date
1,2-Dimethoxypropane	7778-85-0	

### New Jersey Right To Know Components

Component	CAS-No.	Revision Date
1,2-Dimethoxypropane	7778-85-0	

### 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**

# Full text of H-Statements referred to under sections 2 and 3.

Flam. Liq. Flammable liquids

H225 Highly flammable liquid and vapour.

#### **HMIS Rating**

Health hazard: 0

Chronic Health Hazard:

Flammability: 3

Physical Hazard 0

# **NFPA** Rating

Health hazard: 0

Fire Hazard: 3

