acc. to OSHA Hazard Communication Standard (29 CFR 1910.1200)

Printing date 03/05/2015 Reviewed on 11/29/2014

1 Identification

· Product identifier

· Trade name: 1,2-Dimethoxyethane

· Article number: 130215

• CAS Number: 110-71-4 • EC number: 203-794-9

• Index number: 603-031-00-3

- · Application of the substance / the mixture Laboratory chemicals for research and development
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier: BeanTown Chemical

9 Sagamore Park Road Hudson, NH 03051 USA

Phone: (603) 402-2234 Fax: (603) 402-9713

Email: technical@beantownchem.com

www.beantownchem.com

- · Information department: Technical Support Department
- Emergency telephone number:

During normal operating hours, please call (603) 402-2234 After hours, please call Chemtrec at (800) 424-9300

2 Hazard(s) identification

· Classification of the substance or mixture



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS08 Health hazard

Repr. 1A H360 May damage fertility or the unborn child.



GHS07

Acute Tox. 4 H332 Harmful if inhaled.

- · Label elements
- · GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS). (Contd. on page 2)

-USA

(Contd. of page 1)

Safety Data Sheet

acc. to OSHA Hazard Communication Standard (29 CFR 1910.1200)

Printing date 03/05/2015 Reviewed on 11/29/2014

Trade name: 1,2-Dimethoxyethane

· Hazard pictograms







- · Signal word Danger
- · Hazard-determining components of labeling:

1,2-dimethoxyethane

· Hazard statements

Highly flammable liquid and vapor.

Harmful if inhaled.

May damage fertility or the unborn child.

· Precautionary statements

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Use explosion-proof electrical/ventilating/lighting/equipment.

Avoid breathing dust/fume/gas/mist/vapors/spray

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description

110-71-4 1,2-dimethoxyethane

- · Identification number(s)
- · EC number: 203-794-9
- · Index number: 603-031-00-3

·SVHC

110-71-4 1,2-dimethoxyethane

4 First-aid measures

- · Description of first aid measures
- · General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact: Immediately rinse with water.

(Contd. on page 3)

acc. to OSHA Hazard Communication Standard (29 CFR 1910.1200)

Printing date 03/05/2015 Reviewed on 11/29/2014

Trade name: 1,2-Dimethoxyethane

(Contd. of page 2)

- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
- · Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

Do not allow product to reach sewage system or any water course.

Prevent seepage into sewage system, workpits and cellars.

Inform respective authorities in case of seepage into water course or sewage system.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

- · Conditions for safe storage, including any incompatibilities
- · Storage.
- · Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Keep receptacle tightly sealed.

(Contd. on page 4)

acc. to OSHA Hazard Communication Standard (29 CFR 1910.1200)

Printing date 03/05/2015 Reviewed on 11/29/2014

Trade name: 1,2-Dimethoxyethane

(Contd. of page 3)

Store in cool, dry conditions in well sealed receptacles.

· Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical systems:

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute

- · Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eve protection: Tightly sealed goggles

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form:
Color:
Colorless
Odor:
Ddour threshold:

PH-value:

Liquid
Colorless
Ether-like
Not determined.

· Change in condition

Melting point/Melting range: -58 °C (-72 °F) Boiling point/Boiling range: 85 °C (185 °F)

• Flash point: -2 °C (28 °F)

(Contd. on page 5)

acc. to OSHA Hazard Communication Standard (29 CFR 1910.1200)

Printing date 03/05/2015 Reviewed on 11/29/2014

Trade name: 1,2-Dimethoxyethane

	(Contd. of page
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	200 °C (392 °F)
· Decomposition temperature:	Not determined.
· Auto igniting:	Not determined.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapo mixtures are possible.
· Explosion limits:	
Lower:	1.6 Vol %
Upper:	10.4 Vol %
· Vapor pressure at 20 °C (68 °F):	80 hPa (60 mm Hg)
Density at 20 °C (68 °F):	0.867 g/cm³ (7.235 lbs/gal)
· Relative density	Not determined.
Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/wate	er): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Organic solvents:	100.0 %
VOC content:	100.0 %
	867.0 g/l / 7.24 lb/gl
· Other information	No further relevant information available.

10 Stability and reactivity

- · Reactivity
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · LD/LC50 values that are relevant for classification:

110-71-4 1,2-dimethoxyethane

Oral LD50 5370 mg/kg (rat)

- Primary irritant effect:
- on the skin: No irritant effect.
- · on the eye: No irritating effect.

(Contd. on page 6)

acc. to OSHA Hazard Communication Standard (29 CFR 1910.1200)

Printing date 03/05/2015 Reviewed on 11/29/2014

Trade name: 1,2-Dimethoxyethane

(Contd. of page 5)

- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

Substance is not listed.

· NTP (National Toxicology Program)

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes: Not known to be hazardous to water.
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

UN-Number		
DOT, IMDG, IATA	UN2252	
UN proper shipping name		
DOT	1,2-Dimethoxyethane	
IMDG, IATA	1,2-DIMETHOXYETHANE	
Transport hazard class(es)		
DOT, IMDG, IATA		
Class	3 Flammable liquids	
Packing group		
DOT, IMDG, IATA	II	

(Contd. on page 7)

acc. to OSHA Hazard Communication Standard (29 CFR 1910.1200)

Printing date 03/05/2015 Reviewed on 11/29/2014

Trade name: 1,2-Dimethoxyethane

(Contd. of page 6)

· Environmental hazards:

· Marine pollutant: No

· Special precautions for user Warning: Flammable liquids

· Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

· UN "Model Regulation": UN2252, 1,2-Dimethoxyethane, 3, II

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Sara
- · Section 355 (extremely hazardous substances):

Substance is not listed.

· Section 313 (Specific toxic chemical listings):

Substance is listed.

· TSCA (Toxic Substances Control Act):

Substance is listed.

- · Proposition 65
- · Chemicals known to cause cancer:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

· Chemicals known to cause developmental toxicity:

Substance is not listed.

- · Carcinogenic categories
- · EPA (Environmental Protection Agency)

Substance is not listed.

· TLV (Threshold Limit Value established by ACGIH)

Substance is not listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

· RTECS

Substance is not listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

(Contd. on page 8)

acc. to OSHA Hazard Communication Standard (29 CFR 1910.1200)

Printing date 03/05/2015 Reviewed on 11/29/2014

Trade name: 1,2-Dimethoxyethane

(Contd. of page 7)

· NFPA ratings (scale 0-4)

Health = 2

Fire = 3

Reactivity = 0

· HMIS ratings (scale 0-4)

Health = *2

Fire = 3

Reactivity = 0

· Department issuing SDS: Technical Support Department

· Contact: Technical Support Department

· Date of preparation / last revision 03/05/2015 / -

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Acute Tox. 4: Acute toxicity, Hazard Category 4

Repr. 1A: Reproductive toxicity, Hazard Category 1A

- USA