

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 09/13/2013 Version: 1.0

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form

: Mixture

Product name.

: Ethylene Glycol, 40% v/v

Product code

: T16802

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

Use of the substance/mixture

: For laboratory and manufacturing use only.

#### 1.3. Details of the supplier of the safety data sheet

LabChem Inc

Jackson's Pointe Commerce Park Building 1000, 1010 Jackson's Pointe Court

Zelienople, PA 16063 - USA

T 412-826-5230 - F 724-473-0647 info@labchem.com - www.labchem.com

#### 1.4. Emergency telephone number

Emergency number

: CHEMTREC: 1-800-424-9300 or 011-703-527-3887

#### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

#### **GHS-US** classification

Acute Tox. 4 (Oral) H302

#### 2.2. Label elements

#### **GHS-US** labelling

Hazard pictograms (GHS-US)



GHS07

Signal word (GHS-US)

: Warning

Hazard statements (GHS-US)

H302 - Harmful if swallowed

Precautionary statements (GHS-US)

P264 - Wash exposed skin thoroughly after handling P270 - Do not eat, drink or smoke when using this product

P301+P312 - IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell

P330 - If swallowed, rinse mouth

P501 - Dispose of contents/container to comply with local, state and federal regulations

#### 2.3. Other hazards

Other hazards not contributing to the

classification

: None.

#### 2.4. Unknown acute toxicity (GHS-US)

No data available

#### SECTION 3: Composition/information on ingredients

#### 3.1, Substances

Not applicable

Full text of H-phrases: see section 16

#### 3.2. Mixture

Name	Product identifier	%	GHS-US classification
Water	(CAS No) 7732-18-5	57.93	Not classified
Ethylene Glycol	(CAS No) 107-21-1	42.07	Acute Tox. 4 (Oral), H302

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures general

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation

: Assure fresh air breathing. Allow the victim to rest.

First-aid measures after skin contact

 Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

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First-aid measures after eye contact

: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persist

First-aid measures after ingestion

Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON CENTER/doctor/physician if you feel unwell.

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

Symptoms/injuries after ingestion

: Swallowing a small quantity of this material will result in serious health hazard.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

#### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media

: Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media

: Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

No additional information available

#### 5.3. Advice for firefighters

Firefighting instructions

Protection during firefighting

: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Avoid (reject) fire-fighting water to enter environment.

: Do not enter fire area without proper protective equipment, including respiratory protection.

#### SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Protective equipment

: Safety glasses. Gloves.

Emergency procedures

: Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment

: Equip cleanup crew with proper protection.

**Emergency procedures** 

: Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up

: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

#### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling

: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of

vapour.

Hygiene measures

: Do not eat, drink or smoke when using this product. Wash exposed skin thoroughly after handling.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Keep only in the original container in a cool, well ventilated place away from : incompatible materials. Keep container closed when not in use.

Incompatible products

: Strong oxidizers.

Incompatible materials

: Sources of ignition. Direct sunlight.

#### 7.3. Specific end use(s)

No additional information available

#### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Ethylene	Glycol (	107-21-1)
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USA ACGIH Ceiling (mg/m³)

100 mg/m<sup>3</sup>

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#### 8.2. Exposure controls

Appropriate engineering controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity

of any potential exposure. Provide adequate general and local exhaust ventilation.

Personal protective equipment

: Avoid all unnecessary exposure.

Hand protection

: Wear protective gloves.

Eye protection

: Chemical goggles or safety glasses.

Respiratory protection

: Wear appropriate mask.

Other information

: Do not eat, drink or smoke during use.

# SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state

: Liquid

Appearance

: Clear, colorless liquid.

Colour

Colourless.

Odour

Odourless.

Odour threshold

No data available

nH

No data available

Relative evaporation rate (butylacetate=1)

: No data available

Melting point

: -13 °C

Freezing point

: No data available

Boiling point

: No data available

Flash point

No data available

Self ignition temperature

No data available

Decomposition temperature Flammability (solid, gas)

No data available

Vapour pressure

No data available

Relative vapour density at 20 °C

No data available

Relative density Density No data available

Solubility

: 1.05 g/ml: Soluble in water.

Log Pow

: No data available

Log Kow

: No data available

Viscosity, kinematic

2.7 cSt

Viscosity, dynamic Explosive properties No data available No data available

Oxidising properties

: No data available

Explosive limits

: No data available

#### 9.2. Other information

No additional information available

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Not established.

#### 10.4. Conditions to avoid

Incompatible materials.

#### 10.5. Incompatible materials

Strong oxidizers.

# 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

#### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

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Acute toxicity : Harmful if swallowed.

Ethylene Glycol (107-21-1)	
LD50 dermal rabbit	10626 mg/kg
ATE (oral)	500.000 mg/kg bodyweight

7112 (516.1)	
Water (7732-18-5)	
LD50 oral rat	≥ 90000 mg/kg
Skin corrosion/irritation	: Not classified

Serious eye damage/irritation : Not classified
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated : Not classified exposure)

Aspiration hazard : Not classified

Potential Adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met. Harmful if swallowed.

Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

#### SECTION 12: Ecological information

#### 12.1. Toxicity

No additional information available

#### 12.2. Persistence and degradability

Ethylene Glycol, 40% v/v	
Persistence and degradability	Not established.

### 12.3. Bioaccumulative potential

Ethylene Glycol, 40% v/v	
Bioaccumulative potential	Not established.

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Other information : Avoid release to the environment.

# SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of

contents/container to comply with local, state and federal regulations.

Ecology - waste materials : Avoid release to the environment.

#### **SECTION 14: Transport information**

In accordance with DOT

#### 14.1. UN number

No dangerous good in sense of transport regulations

### 14.2. UN proper shipping name

Not applicable

#### 14.3. Additional information

Other information : No supplementary information available.

#### **Overland transport**

No additional information available

#### Transport by sea

No additional information available

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#### Air transport

No additional information available

#### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

Ethylene Glycol (107-21-1)	
Listed on SARA Section 313 (Specific toxic chem Listed on the United States TSCA (Toxic Substan	ical listings) nces Control Act) inventory
RQ (Reportable quantity, section 304 of EPA's List of Lists):	5000 lb
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard

#### 15.2. International regulations

#### CANADA

Ethylene Glycol, 40% v/v	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects
Ethylene Glycol (107-21-1)	
Listed on the Canadian DSL (Domes	
WHMIS Classification	Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision A - Very toxic material causing other toxic effects

#### **EU-Regulations**

No additional information available

# Classification according to Regulation (EC) No. 1272/2008 [CLP]

# Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

#### 15.2.2. National regulations

Ethylene Glycol (107-21-1)	
Listed on the Canadian Ingredient Disclosure List	

# 15.3. US State regulations

No additional information available

# SECTION 16: Other information

Other information : None.

Full text of H-phrases: see section 16

te	ct of H-phrases: see section 16:	
	Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
	H302	Harmful if swallowed

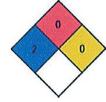
NFPA health hazard : 2 - Intense or continued exposure could cause temporary

incapacitation or possible residual injury unless prompt medical attention is given.

NFPA fire hazard : 0 - Materials that will not burn.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



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#### **HMIS III Rating**

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 0 Minimal Hazard
Physical : 0 Minimal Hazard

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Personal Protection

: C

SDS US (GHS HazCom 2012)

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