

Version 1.7 Revision Date: 09/01/2019

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Diethylene Glycol

Recommended use of the chemical and restrictions on use

Recommended use : Solvent.

Chemical intermediate in industrial applications

Manufacturer or supplier's details

Company : Univar Solutions USA, Inc. Address : 3075 Highland Pkwy Suite 200

Downers Grove, IL 60515 United States of America (USA)

Emergency telephone number:

Transport North America: CHEMTREC (1-800-424-9300) CHEMTREC INTERNATIONAL Tel # 703-527-3887

Additional Information: : Responsible Party: Product Compliance Department

E-mail: SDSNA@univarsolutions.com SDS Requests: 1-855-429-2661 Website: www.univarsolutions.com

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Acute toxicity (Oral) : Category 4

Specific target organ toxicity

- repeated exposure

: Category 2 (Kidney)

GHS label elements

Hazard pictograms





Signal word : Warning

Hazard statements : H302 Harmful if swallowed.

H373 May cause damage to organs through prolonged or re-

peated exposure.

Precautionary statements : **Prevention**:

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON

CENTER/doctor if you feel unwell. Rinse mouth. P314 Get medical advice/ attention if you feel unwell.

Disposal:

P501 Dispose of contents/ container to an approved waste dis-

posal plant.

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Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Hazardous components

CAS-No.	Chemical name	Weight percent
111-46-6	Diethylene glycol	90 - 100

Any Concentration shown as a range is due to batch variation.

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : Wash off with soap and water.

Wash clothing before reuse.

If symptoms persist, call a physician.
In case of eye contact : Flush eyes with water as a precaution.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Do not induce vomiting without medical advice.

Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Carbon dioxide (CO2)

Dry chemical

Foam

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during fire-

fighting

: Do not allow run-off from fire fighting to enter drains or water

courses

Hazardous combustion prod-

ucts

: Carbon monoxide, carbon dioxide and unburned hydrocar-

bons (smoke). toxic fumes

Further information : Standard procedure for chemical fires.

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Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Special protective equipment

for firefighters

Wear self-contained breathing apparatus for firefighting if nec-

Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for

containment and cleaning up

: Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against

fire and explosion

: Normal measures for preventive fire protection.

Advice on safe handling : Do not breathe vapours/dust.

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Dispose of rinse water in accordance with local and national

regulations.

: Keep container tightly closed in a dry and well-ventilated Conditions for safe storage

place.

Electrical installations / working materials must comply with

the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

CAS-No.	Components	Value type (Form of	Control parame- ters / Permissible	Basis
		exposure)	concentration	
111-46-6	Diethylene glycol	TWA	10 mg/m3	US WEEL

Personal protective equipment

Respiratory protection General and local exhaust ventilation is recommended to

maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air

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purifying respirators may not provide adequate protection.

Hand protection

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Skin and body protection : Impervious clothing

Choose body protection according to the amount and concen-

tration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

: -8 - -6.5 °C (18 - 20.3 °F)

: 244 - 245 °C (471 - 473 °F)

Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : Clear, Colorless

Odour : odourless, slight, sweet

Odour Threshold : No data available

pH : 7 @ 20 - 25 °C (68 - 77 °F)

Freezing Point (Freezing

Point)

Flash point

Boiling Point (Boiling point/boiling range)

Evaporation rate : < 0.01

(Butyl Acetate = 1)

: 138 °C (280 °F)

Flammability (solid, gas) : No data available

Upper explosion limit : 12.3 %(V)

Lower explosion limit : 1.6 %(V)

Vapour pressure : 0.002 - 0.006 mmHg @ 20 - 25 °C (68 - 77 °F)

Relative vapour density : < 3.66 @ 20 - 25 °C (68 - 77 °F)

(Air = 1.0)

Relative density : 1.118 @ 20 - 25 °C (68 - 77 °F)

Reference substance: (water = 1)

Density : 1.18 g/cm3 @ 20 °C (68 °F)

Solubility(ies)

Water solubility : soluble

Solubility in other solvents : No data available Partition coefficient: n- : log Pow: 1.47 - 1.98

octanol/water

Auto-ignition temperature : 229 - 372 °C Thermal decomposition : No data available

Viscosity

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Viscosity, dynamic : 35.7 - 42 mPa.s @ 20 °C (68 °F)

Viscosity, kinematic : 30 - 32 mm2/s @ 20 °C (68 °F)

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reac- : No hazards to be specially mentioned.

Possibility of nazardous rea

Conditions to avoid

: Keep away from heat, flame, sparks and other ignition

sources.

Incompatible materials : Aldehydes

Reducing agents Strong acids Strong bases

Strong oxidizing agents

Aluminium

Hazardous decomposition

products

: Aldehydes Alcohols ethers

Carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate: 1,131 mg/kg

Components:

111-46-6:

Acute oral toxicity : LD50 (Human): Calculated 1,120 mg/kg

Assessment: The component/mixture is moderately toxic after

single ingestion.

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.

OSHA No component of this product present at levels greater than or

equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

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by NTP.

Further information

Product:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Pro-

tection of Stratospheric Ozone - CAA Section 602 Class I

Substances

Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological infor-

mation

: No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

DOT (Department of Transportation): Not regulated as a dangerous good

UNRTDG

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Not regulated as a dangerous good

IATA (International Air Transport Association): Not regulated as a dangerous good

IMDG-Code: Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

WHMIS Classification : : Not controlled.

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
1,4-Dioxane	123-91-1	100	*
Ethylene glycol	107-21-1	5000	*

^{*:} Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Acute toxicity (any route of exposure)

Specific target organ toxicity (single or repeated exposure)

SARA 302 : No chemicals in this material are subject to the reporting re-

quirements of SARA Title III, Section 302.

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.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

111-46-6 Diethylene glycol

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

Massachusetts Right To Know

123-91-1 1,4-Dioxane

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Pennsylvania Right To Know

111-46-6 Diethylene glycol 107-21-1 Ethylene glycol 123-91-1 1,4-Dioxane

109-86-4 Ethanol, 2-methoxy-

California Prop 65

WARNING: This product can expose you to chemicals including 1,4-Dioxane, which is/are known to the State of California to cause cancer, and Ethylene glycol, Ethanol, 2-methoxy-, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

The components of this product are reported in the following inventories:

TSCA : On TSCA Inventory

DSL : All components of this product are on the Canadian DSL

AICS : On the inventory, or in compliance with the inventory

NZIoC : On the inventory, or in compliance with the inventory

ENCS : On the inventory, or in compliance with the inventory

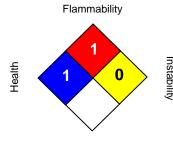
KECI : On the inventory, or in compliance with the inventory

PHIL : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

SECTION16. OTHER INFORMATION

NFPA:



Special hazard.

HMIS III:

HEALTH	1*
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 =Extreme, * = Chronic

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the

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results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Univar Solutions Product Compliance Department (1-855-429-2661) SDSNA@univarsolutions.com.

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Legacy SDS: : R0003552

Material number:

16141620, 16129521, 16117778, 16117792, 16086746, 16062073, 16062072, 16056033, 16056032, 16056031, 16056030, 16024000, 16013379, 743861, 618642, 598848, 572120, 546111, 544366, 86128, 52820, 70467, 104677, 101959, 86848, 71915, 53364, 101956, 55073, 87071, 70055, 103453, 167560, 508337, 507896, 507404, 500049, 20325, 20323, 20322, 503280

Key or le	gend to abbreviations and acronym	s used in	the safety data sheet
ACGIH	American Conference of Govern-	LD50	Lethal Dose 50%
	ment Industrial Hygienists		
AICS	Australia, Inventory of Chemical	LOAEL	Lowest Observed Adverse Effect
	Substances		Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substanc-	NIOSH	National Institute for Occupational
	es List		Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemi-
			cals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect
			Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenar-	OSHA	Occupational Safety & Health
	io Tool		Administration
EOSCA	European Oilfield Specialty Chem-	PEL	Permissible Exposure Limit
	icals Association		
EINECS	European Inventory of Existing	PICCS	Philippines Inventory of Commer-
	Chemical Substances		cial Chemical Substances
MAK	Germany Maximum Concentration	PRNT	Presumed Not Toxic
	Values		
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery
			Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and
			Reauthorization Act.
IARC	International Agency for Research	TLV	Threshold Limit Value
	on Cancer		
IECSC	Inventory of Existing Chemical	TWA	Time Weighted Average
	Substances in China		
ENCS	Japan, Inventory of Existing and	TSCA	Toxic Substance Control Act
1/501	New Chemical Substances	10/05	
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composi-
			tion, Complex Reaction Products,
		14/11/12	and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials

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		Information System
LC50	Lethal Concentration 50%	

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