

# SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006 (REACH)

Substance Name : DI ETILEN GLIKOL (TICARI)  
Print Date : 13.09.2017  
Safety Data Sheet No : POL-729  
Revision Date : -  
Revision Number : -

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## 1- Identification of the Substance/Mixture and the Company/Undertaking

### 1.1. Product Identifier

GHS product identifier : Diethylene glycol

Chemical name : 2,2'-oxybisethanol

Other means of identification: bis(2-hydroxyethyl) ether; brecolane ndg; deactivator e; deactivator h; deg; dicol; diglycol; beta,beta'-dihydroxydiethyl ether; dissolvant apv; ethanol, 2,2'-oxydi-; ethylene diglycol; glycol ether; glycol ethyl ether; 3-oxapentane-1,5-diol; 3-oxa-1, 5-pentenediol; 2,2'-oxybisethanol; 2,2'-oxydiethanol; t14n; diethylene glycol; 2, 2-dihydroxydiethyl ether

Product type : Liquid.

### 1.2. Details of the supplier of the safety data sheet:

KIVANÇ KIMYA SANAYİ TİCARET VE  
PAZARLAMA LIMITED İRKETİ  
Adres : İstanbul Tuzla Kmya  
Sanaycileri Organze Sanay Bolges  
Melek Aras Bulvar Organik Cad. No: 57  
Tuzla / İstanbul / TÜRKİYE  
Telefon Numaras: +90 216 593 30 50  
Fax numaras: +90 216 593 30 54

### 1.3. Emergency telephone number:

Company Telephone : 0090 212 866 49 00  
National Poison Information Center : 114  
Fire Department : 110  
First Aid Center : 112

## 2- Hazards Identification

Classification of the substance or mixture: ACUTE TOXICITY: ORAL - Category 4 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE): ORAL [kidneys] - Category 2

### 2.1. Label elements

Hazard pictograms/symbols:

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GHS07



GHS08

*Signal word:* Warning

*Hazard Statements:*

Harmful if swallowed.

May cause damage to organs through prolonged or repeated exposure if swallowed. (kidneys)

*Precautionary statements*

Prevention: Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

Response: Get medical attention if you feel unwell. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth.

Storage: Store in accordance with all local, regional, national and international regulations.

Disposal: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Other hazards which do not result in classification: None known.

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### 3- Composition/Information on Ingredients

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**Substance/mixture** : Substance  
**Chemical name** : 2,2'-oxybisethanol  
**Other means of identification** : bis(2-hydroxyethyl) ether; brecolane ndg; deactivator e;  
deactivator h; deg; dicol; diglycol; beta,beta'-ihydroxydiethyl  
ether; dissolvant apv; ethanol, 2,2'-oxydi-; ethylene diglycol;  
glycol ether; glycol ethyl ether; 3-oxapentane-1,5-diol; 3-oxa-  
1, 5-pentanediol; 2,2'-oxybisethanol; 2,2'-oxydiethanol; t14n;  
diethylene glycol; 2, 2-dihydroxydiethyl ether

**CAS number/other identifiers**

K.FR.05.102

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CAS number: 111-46-6  
EC number: 203-872-2

CAS number	%	Ingredient name
111-46-6	>99.5	2,2'-oxybisethanol

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## 4- First Aid Measures

### 4.1 Description of first aid measures

**Eye contact:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell.

**Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention following exposure or if feeling unwell. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Skin contact:** Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Ingestion:** Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an

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unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

*Protection of first-aiders:* No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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

##### *Potential acute health effects*

Eye contact: No known significant effects or critical hazards.

Inhalation: No known significant effects or critical hazards.

Skin contact: No known significant effects or critical hazards.

Ingestion: Harmful if swallowed.

##### *Over-exposure signs/symptoms*

Eye contact: No specific data.

Inhalation: No specific data.

Skin contact: No specific data.

Ingestion: No specific data.

#### ***4.3 Indication of any immediate medical attention and special treatment needed if necessary***

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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## **5- Fire – Fighting Measures**

### ***5.1 Extinguishing media***

Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media: None known.

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

In a fire or if heated, a pressure increase will occur and the container may burst.

### ***5.3 Hazardous thermal decomposition products***

Decomposition products may include the following materials:

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carbon dioxide, carbon monoxide

## ***5.4 Special protective actions for fire-fighters***

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

## ***5.5 Special protective equipment for fire-fighters***

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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## **6- Accidental Release Measures**

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

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

***6.2 Environmental precautions:*** Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

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

Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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## 7- Handling and Storage

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### *7.1 Precautions for safe handling*

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**7.2 Conditions for safe storage, including any incompatibilities:** Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

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## 8- Exposure Controls / Personal Protection

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### *8.1 Control parameters*

#### **Occupational exposure limits**

Recommended monitoring procedures: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Appropriate engineering controls: If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### Individual protection measures

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated

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clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

*Recommended*: safety glasses with side-shields

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. > 8 hours (breakthrough time): butyl rubber (> 0.30 mm), nitrile rubber (> 0.38 mm).

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

*Recommended*: organic vapour filter (Type A)

## 9- Physical and Chemical Properties

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

#### Appearance

*Physical state* : Liquid.  
*Colour* : Colourless.  
*Odour* : Odourless.  
*Odour threshold* : Not available.  
*pH* : Not available.  
*Melting point/freezing point* : -6.5°C (20.3°F)  
*Boiling point* : 245°C (473°F)  
*Flash point* : Closed cup: 138°C (280.4°F)

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*Evaporation rate* : Open cup: 123.85°C (254.9°F)  
: <0.01 (butyl acetate = 1)  
*Flammability (solid, gas)* : Not available.  
*Burning time* : Not applicable.  
*Burning rate* : Not applicable.  
*Upper/lower flammability or explosive limits* : Lower: 1.8%  
: Upper: 12.8%  
*Vapour pressure* : 0.0008 kPa (0.006 mm Hg) [room temperature]  
*Vapour density* : 3.66 [Air = 1]  
*Relative density* : 1.11  
*Density* : 1.11 g/cm<sup>3</sup> [20°C]  
*Solubility(ies)* : Easily soluble in the following materials: cold water.  
*Partition coefficient: n-octanol/ water* : Not available.  
*Auto-ignition temperature* : 229°C (444.2°F)  
*Decomposition temperature* : Not available.  
*SADT* : Not available.  
*Viscosity* : Dynamic (room temperature): 42 mPa·s (42 cP)  
*Heat of combustion* : -22.37 kJ/g

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**10- Stability and Reactivity**

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**10.1 Reactivity**

No specific test data related to reactivity available for this product or its ingredients.

**10.2 Chemical stability**

The product is stable.

**10.3 Possibility of hazardous reactions**

Under normal conditions of storage and use, hazardous reactions will not occur.

**10.4 Conditions to avoid**

No specific data.

**10.5 Incompatible materials**

No specific data.

**10.6 Hazardous decomposition products**

Under normal conditions of storage and use, hazardous decomposition products should not be produced.



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## 11- Toxicological Information

### 11.1 Information on toxicological effects

#### Acute toxicity

Exposure	Result	Species	Result	Exposure
4 hours	>4.6 mg/l	Rat	LC50 Inhalation	2,2'-oxybisethanol
-	13300 mg/kg	Rabbit	Dusts and mists	
-	19600 mg/kg	Rat	LD50 Dermal	
-	100 mg/kg	Rat	LD50 Oral NOAEL Oral	

#### Irritation/Corrosion

Not available.

#### Sensitisation

Result	Species	Route of exposure	Product/ingredient name
Not sensitizing	Guinea pig	skin	2,2'-oxybisethanol

#### Conclusion/Summary

Non-sensitiser to skin.

#### Mutagenicity

Result	Experiment	Test	Product/ingredient name
Negative	Experiment: In vitro Subject: Bacteria	EU B.4 B.4 Acute Toxicity: Dermal Irritation/corrosion	2,2'-oxybisethanol
Negative	Experiment: In vitro Subject: Mammalian-Animal	OECD 474 474 Mammalian Erythrocyte Micronucleus Test	
Negative	Experiment: In vitro Subject: Mammalian-Animal	OECD 473 473 In vitro Mammalian Chromosomal Aberration Test	

#### Carcinogenicity

Not available.

#### Reproductive toxicity

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Exposure	Dose	Species	Developmental toxin	Fertility	Maternal toxicity	Product/ingredient name
-	Oral: 3060 g/kg	Mouse	Negative	Negative	Negative	2,2'-oxybisethanol
-	Oral: 2200 g/kg	Rat	Negative	Negative	Negative	

### Teratogenicity

Exposure	Dose	Species	Result	Product/ingredient name
7 days per week	1 mg/kg	Rat	Negative - Oral	2,2'-oxybisethanol

### *Specific target organ toxicity (single exposure)*

Not available.

### *Specific target organ toxicity (repeated exposure)*

Not available.

### *Aspiration hazard*

Not available.

### *Information on the likely routes of exposure*

Not available.

### Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : Harmful if swallowed.

### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

#### Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

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Not available.

General : May cause damage to organs through prolonged or repeated exposure if swallowed.

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

Numerical measures of toxicity

Not available.

Acute toxicity estimates

## 12- Ecological Information

### 12.1 Toxicity

Exposure	Species	Result	Product/ingredient name
24 hours	Daphnia - Daphnia magna	Acute EC50 >10000 mg/l Fresh water	2,2'-oxybisethanol
96 hours	Fish - Pimephales promelas	Acute LC50 75200 mg/l	

### 12.2 Persistence and degradability

Conclusion/Summary : Not available.

Biodegradability	Photolysis	Aquatic half-life	Product/ingredient name
-	50%; 0.72 day(s)	-	2,2'-oxybisethanol

### 12.3 Bioaccumulative potential

Potential	BCF	LogPow	Product/ingredient name
low	100	-1.98	2,2'-oxybisethanol

### 12.4 Mobility in soil

Soil/water partition : 1

12.6 Other adverse effects : No known significant effects or critical hazards.

## 13- Disposal Considerations

### Disposal methods

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental K.FR.05.102

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protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## 14- Transport Information

	<b>UN</b>	<b>IMDG</b>	<b>IATA</b>
<b>14.1 UN number</b>	Not regulated.	Not regulated.	Not regulated.
<b>14.2 UN proper shipping name</b>	-	-	-
<b>14.3 Transport hazard class(es)</b>	-	-	-
<b>14.4 Packing group</b>	-	-	-
<b>14.5 Environmental hazards</b>	No.	No.	No.
<b>Additional information</b>	-	-	-

**14.6 Special precautions for user:** Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Proper shipping name: Diethylene Glycol  
Pollution category: Z

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## 15- Regulatory Information

### *15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture*

No known specific national and/or regional regulations applicable to this product (including its ingredients).

Chemical Weapons Convention List Schedule I Chemicals: Not listed

Chemical Weapons Convention List Schedule II Chemicals: Not listed

Chemical Weapons Convention List Schedule III Chemicals: Not listed

### *15.2 National Fire Protection Association (U.S.A.)*

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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

## 16- Other Information

### *History*

Date of printing : 13.09.2017  
Date of issue/Date of revision : 13.09.2017  
Date of previous issue : 13.09.2017  
Version : 1

### *Key to abbreviations:*

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

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IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

UN = United Nations

**References:** Not available.

Indicates information that has changed from previously issued version.

## Technical information:

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## NOTE:

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