

**Safety data sheet**  
according to 1907/2006/EC, Article 31


Printing date 21.06.2013

Revision: 21.06.2013


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

- **Trade name:** diethoxymethane (Ethylal)
- **CAS Number:**  
462-95-3
- **EC number:**  
207-330-6
- **Registration number** 17-2119959395-24-0000 (Pre - registration number)
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the preparation:** Used for in the fields of cleaning, synthesis and coatings.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Kairav Chemofarbe Industries Ltd.  
502,filix,LBS Marg  
Opposite Asian Paints  
Bhandup (w)Mumbai 400078
- **Further information obtainable from:**  
Ph:022-25968361,25968362  
Fax:25958586
- **1.4 Emergency telephone number:**  
Emergency telephone number :  
Telephone number of EU importer:                      Opening hours:  
Other comments(e.g. language(s) of the phone service): English


**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
 GHS02 flame  
  
Flam. Liq. 2 H225 Highly flammable liquid and vapour.

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- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**  
 F; Highly flammable  
R11: Highly flammable.
- **Information concerning particular hazards for human and environment:** Not applicable.

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- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The substance is classified and labelled according to the CLP regulation.
- **Hazard pictograms**  
  
GHS02
- **Signal word** Danger
- **Hazard statements**  
H225 Highly flammable liquid and vapour.
- **Precautionary statements**  
P210                      Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

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- P241 Use explosion-proof electrical/ventilating/lighting/equipment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P240 Ground/bond container and receiving equipment.
- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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

### SECTION 3: Composition/information on ingredients

- **3.1 Chemical characterization: Substances**
- **CAS No. Description**  
462-95-3 diethoxymethane
- **Identification number(s)**
- **EC number:** 207-330-6
- **SVHC** The substance is not in the list of SVHC substances

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:** No special measures required.
- **6.3 Methods and material for containment and cleaning up:** Ensure adequate ventilation.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

**SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in cool, dry conditions in well sealed receptacles.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep container tightly sealed.
- **7.3 Specific end use(s)**  
Used for in the fields of cleaning, synthesis and coatings

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

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:** Not required.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
- **Respiratory protection:** Not required.
- **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.
- **Eye protection:**



Tightly sealed goggles

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### SECTION 9: Physical and chemical properties

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

##### · General Information

##### · Appearance:

Form:	Liquid
Colour:	Colourless
Odour:	Characteristic

· pH-value: Not determined.

##### · Change in condition

Melting point/Melting range:	-66.5 °C
Boiling point/Boiling range:	87-88 °C

· Flash point: -5 °C

· Flammability (solid, gaseous): Flammable liquid.

##### · Ignition temperature:

Decomposition temperature: Not determined.

· Self-igniting: Not determined.

· Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

##### · Explosion limits:

Lower:	No data available
Upper:	No data available

· Vapour pressure at 20 °C: 0.17 hPa

· Density at 20 °C:	0.839 g/cm <sup>3</sup>
· Relative density	No data available
· Vapour density	Not available

· Solubility in / Miscibility with water at 20 °C: 70 g/l

· Partition coefficient (n-octanol/water): 0.79 log POW

##### · Viscosity:

Dynamic at 20 °C: 0.507 mPas

· 9.2 Other information: No further relevant information available.

### SECTION 10: Stability and reactivity

#### · 10.1 Reactivity

#### · 10.2 Chemical stability

· Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· 10.3 Possibility of hazardous reactions: No dangerous reactions known.

· 10.4 Conditions to avoid: No further relevant information available.

· 10.5 Incompatible materials: No further relevant information available.

· 10.6 Hazardous decomposition products: No dangerous decomposition products known.

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**SECTION 11: Toxicological information**· **11.1 Information on toxicological effects**· **Acute toxicity:**· **LD/LC50 values relevant for classification:**

Oral	LD50	3536 mg/kg bw (rat)
Dermal	LD50	> 20 mL/kg bw (rat)
Inhalative	LC50	6643 ppm (rat)

· **Primary irritant effect:**· **on the skin:** slightly irritating· **on the eye:** slightly irritating· **Sensitization:** No sensitizing effects known.· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

The substance is not a reproductive toxin.

Mutagenicity: The substance was found to be non-mutagenic as per Ames test. Not

listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65

**SECTION 12: Ecological information**· **12.1 Toxicity**· **Aquatic toxicity:**

EC50 (static)	468 mg/L (Daphnia Sp.)
LC50 (static)	764 mg/L (Pimephales Promelas (Fathead Minnow))

· **12.2 Persistence and degradability** No further relevant information available.· **12.3 Bioaccumulative potential** No further relevant information available.· **12.4 Mobility in soil** No further relevant information available.· **12.5 Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.· **12.6 Other adverse effects** No further relevant information available.**SECTION 13: Disposal considerations**· **13.1 Waste treatment methods**· **Recommendation**

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

· **Uncleaned packaging:**· **Recommendation:** Disposal must be made according to official regulations.**SECTION 14: Transport information**

· <b>14.1 UN-Number</b>	
· <b>ADR, IMDG, IATA</b>	UN2373
· <b>14.2 UN proper shipping name</b>	
· <b>ADR</b>	2373 DIETHOXYMETHANE
· <b>IMDG, IATA</b>	DIETHOXYMETHANE

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· **14.3 Transport hazard class(es)**· **ADR, IMDG, IATA**

· **Class** 3 Flammable liquids.  
· **Label** 3

· **14.4 Packing group**· **ADR, IMDG, IATA** II· **14.5 Environmental hazards:**· **Marine pollutant:** No· **14.6 Special precautions for user** Warning: Flammable liquids.· **Danger code (Kemler):** 33· **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

· **Transport/Additional information:**· **ADR**· **Limited quantities (LQ)** 1L· **UN "Model Regulation":** UN2373, DIETHOXYMETHANE, 3, II**SECTION 15: Regulatory information**· **15.2 Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out and shall be performed at the time of REACH registration.

**SECTION 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.

· **Department issuing MSDS:** Product safety department.· **Contact:**

Kairav Chemofarbe Industries Ltd  
Ph: 022-25968361  
kairav@chemofarbe.com

· **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  
IATA: International Air Transport Association  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)

· **Sources**

1) REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/

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*EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006*

2) <http://apps.echa.europa.eu/registered/data/dossiers/DISS-d6b239c0-6109-28f8-e044-00144f67d031/DISS-d6b239c0-6109-28f8-e044-00144f67d031> DISS-d6b239c0-6109-28f8-e044-00144f67d031.html

**\* Data compared to the previous version altered.***Section 3: Composition /Information on Ingredients**Section 4: First-aid measures**Section 5: Fire-fighting measures**Section 6: Accidental Release measures**Section 7: Handling and storage.**Section 8: Exposure Controls/Personal protection.**Section 9: Physical and Chemical properties.**Section 10: Stability and Reactivity.**Section 11: Toxicological Information.**Section 12: Ecological Information.**Section 13 - Disposal Considerations*

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