



**Safety Data Sheet**  
**Regulation (EC) No. 1907/2006, 1272/2008**  
Trade Name: 2-Phenoxyethanol Page 1 of 1

## SDS REPORT

Liaoning Kelong Fine Chemical Co., Ltd.  
No.36 Wanheqi Road, Hongwei District, Liaoyang City, Liaoning Province,  
China.

**SDS Report No.** : SDS201502095  
**Compilation Date** : Feb 09, 2015  
**Sample Name** : 2-Phenoxyethanol  
**End Use** : Generally used as the solvent, and improving agent for paints, printing ink, and ballpoint ink, as well as the infiltrating and bactericide in the detergents, and film-forming aids for water-based coatings.

**Composition/Ingredient of The Sample** : See Section 3 on the SDS  
**Service Requested** : Safety Data Sheet (SDS) for the sample with submitted composition.  
**Summary** : As per request, the contents and formats of the SDS are prepared in accordance with European Commission Directives 67/548/EEC, 1999/45/EC, Regulation (EC) No 1907/2006, Regulation (EC) No 453/2010 and Regulation (EC) No 1272/2008, and is provided per attached.

Signed for and on behalf of  
GSC Technical Center:

Jesse Xu  
Toxicology engineer



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

### • 1.1 Product identifier

- Trade name: 2-Phenoxyethanol
- Article Number: EPH
- Registration number: Data not available

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

- Application of the substance/ mixture: Generally used as the solvent, and improving agent for paints, printing ink, and ballpoint ink, as well as the infiltrating and bactericide in the detergents, and film-forming aids for water-based coatings.

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

#### • Manufacturer/Supplier:

Liaoning Kelong Fine Chemical Co., Ltd.  
No.36 Wanheqi Road, Hongwei District, Liaoyang City, Liaoning Province,  
China. **Tel:** +86(0) 419 5589968  
**Fax:** +86(0) 419 5589837

**Email:** trade@kelongchem.com

#### • Further information obtainable from:

Liaoning Kelong Fine Chemical Co., Ltd.

### • 1.4 Emergency telephone number

**Tel:** +86(0) 419 5589934

## SECTION 2: Hazards identification

### • 2.1 Classification of the substance or mixture

- Classification according to regulation (EC) 1270/2008:



**GHS07 Exclamation mark**

Acute Tox. 4 H302 Harmful if swallowed

Eye Irrit. 2 H319 Causes serious eye irritation

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



**Xn harmful**

R22: Harmful if swallowed



**Xi irritant**

R36: Irritating to the eyes

- Information concerning particular hazards for human and environment:

The product has to be labeled due to the calculation procedure of Directive 67/548/EEC, 1999/45/EC and Regulation 1272/2008.

• **Classification system:**

The classification is according to the latest edition of the Directive 67/548/EEC, 1999/45/EC and Regulation 1272/2008, and extended by company and literature data.

• **2.2 Label elements**

• **Labeling according to Regulation (EC) No 1272/2008:**

The product is classified and labeled according to Regulation (EC) No 1272/2008.

• **Hazard pictograms:**



GHS07

• **Signal word:** Warning

• **Hazard-determining components of the labeling:** 2-phenoxyethanol

• **Hazard statements:**

H302 Harmful if swallowed

H319 Causes serious eye irritation

• **Precautionary statement:**

P264 Wash thoroughly after handling.

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

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P330 Rinse mouth.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P501 Dispose of contents/container in accordance with local/regional/national/international regulation

• **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:** Mixtures







• **Description:**

Mixture of the substances listed below with nonhazardous additions.

For the wording of the listed risk phrases refer to section 16. 192.168.1.1

• **Components:**

CAS No.: 122-99-6	2-phenoxyethanol	≥99%
EC No.: 204-589-7	☒ Xn R22; ☒ Xi, R36	
Index No.: 603-098-00-9	☒ Acute Tox. 4, H302; Eye Irrit. 2, H319	

CAS No.: None	Diethylene glycol phenyl ether	≤1%
CAS No.: 108-95-2		
EC No.: 203-632-7	 <i>Muta. Cat. 3 R68; T R23/24/25;  <i>Xn R48/20/21/22;  <i>C R34</i></i></i>	
Index No.: 604-001-00-2	 <i>Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331;</i>  <i>Muta. 2, H341; STOT RE 2, H373;  <i>Skin Corr. 1B, H314</i></i>	

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

##### **· 4.1 Description of first aid measures**

**General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance.

**After inhalation:** Supply with fresh air. Consult doctor if feel unwell.

**After skin contact:** Rinse skin with water and soap. If skin irritation happens, consult doctor.

**After eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**After swallowing:** Rinse out mouth with water. Call a POISON CENTER or doctor/physician if you feel unwell.

**· 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: Fire-fighting measures**

##### **· 5.1 Extinguishing media**

**· Suitable extinguishing agents:** Dry chemical, alcohol-resistant foam, powder, carbon dioxide. Do not use water.

**· For safety reasons unsuitable extinguishing agents:** Water with full jet.

**· 5.2 Special hazards arising from the substance or mixture:** No further relevant information available.

##### **· 5.3 Advice for firefighters**

###### **Protective equipment:**

Wear fully protective suit.

Wear self-contained respiratory protective device.

Do not inhale explosive gas or combustion gas.

#### **SECTION 6: Accidental release measures**

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

Wear protective equipment. Keep unprotected person away.

Ensure adequate ventilation.

Use respiratory protective device against the effects of vapor/gas/fume/aerosol.

Avoid contact with skin and eyes.

##### **· 6.2 Environmental precautions:**

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

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

Do not allow to enter sewers/surface or ground water.

• **6.3 Methods and material for containment and cleaning up:**

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

Ensure adequate ventilation.

Dispose contaminated material as waste according to item 13.

• **6.4 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.

## SECTION 7: Handling and storage

• **7.1 Precautions for safe handling:**

Ensure good ventilation/exhaustion at the workplace.

Keep store in the original container.

Keep receptacles tightly sealed.

Keep away from heat and flame.

Prevent formation of vapor/gas/fume/aerosol.

Use respiratory protective device against the effects of vapor/gas/fume/aerosol.

Avoid contact with eye and skin.

• **Information about fire and explosion protection:** Keep away from flame and ignition sources.

• **7.2 Conditions for safe storage, including any non-compatibility**

• **Requirements to be met by storerooms and receptacles:**

Store in a cool, dry location.

Store only in the original receptacle and lock up.

• **Information about storage in one common storage facility:**

Keep away from flammable substance.

• **Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacle.

• **7.3 Specific end use(s):** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

• **8.1 Control parameters**

• **Ingredients with limit values that require monitoring at the workplace:**

Country	Limit value - Eight hours	Limit value - Short term
1 CAS No.: 122-99-6 2-Phenoxyethanol		
Germany (AGS)	20ppm; 110mg/m <sup>3</sup>	40ppm; 220mg/m <sup>3</sup>
Germany (DFG)	20ppm; 110mg/m <sup>3</sup>	40ppm; 220mg/m <sup>3</sup>
Poland	230mg/m <sup>3</sup>	
2 CAS No.: 108-95-2 Phenol		
Belgium	2ppm; 8mg/m <sup>3</sup>	4ppm; 16mg/m <sup>3</sup>
Denmark	1ppm; 4mg/m <sup>3</sup>	2ppm; 8mg/m <sup>3</sup>
European Union	2ppm; 8mg/m <sup>3</sup>	4ppm; 16mg/m <sup>3</sup>

France	2ppm; 7.8mg/m <sup>3</sup>	4ppm; 15.6mg/m <sup>3</sup>
Germany (AGS)	2ppm; 8mg/m <sup>3</sup>	4ppm; 16mg/m <sup>3</sup>
Ireland	2ppm; 8mg/m <sup>3</sup>	4ppm; 16mg/m <sup>3</sup>
Latvia	2ppm; 7.8mg/m <sup>3</sup>	
Poland	7.8mg/m <sup>3</sup>	16mg/m <sup>3</sup>
Spain	2ppm; 8mg/m <sup>3</sup>	
United Kingdom	2ppm;	

• **DNELs:** Data not available

• **PNECs:** Data not available

• **Additional information:** The lists valid during the marking were used as basis.

• **8.2 Exposure controls**

• **Based on the composition shown in section 3, the following measures are suggested for occupational safety measure.**

• **Appropriate engineering controls:**

Handle in accordance with good industrial hygiene and safety practice.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

See section 7 for information about design of technical facilities.

• **Personal protective equipment**

• **Respiration protection:** In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

• **Protection of hands:**



**Protective gloves**

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. As composition, the resistance of the glove material can't be calculated in advance and has therefore to be checked prior to the application.

• **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:**



**Safety glasses**

• **Environmental exposure controls:**

Control measures must be made in accordance with Community environmental protection legislation.

## SECTION 9: Physical and chemical properties

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

#### · Appearance:

Form	Liquid
Color	Transparent , colorless
Odor	Alcohol and ether smell
Odor threshold	Data not available
· pH-value	5.5~7.0

#### · Change in condition

Melting point/melting range	244 °C
Boiling point and boiling range	Data not available
· Freezing point	15 °C
· Flash point:	119 °C
· Flammability (solid, gas)	Data not available
· Decomposition temperature	Data not available
· Self-ignition	Product is not self-ignition.
· Danger of explosion	Product is not explosive.
· Explosion limits	
Lower:	Data not available
Upper:	Data not available
· Oxidizing properties	Data not available
· Vapor pressure	Data not available
· Density	1.11 g/cm <sup>3</sup> (20 °C)
· Relative density	Data not available
· Vapor density	Data not available
· Evaporation rate	Data not available
· Solubility in/Miscibility with	
Water	30g/L
· Partition coefficient (n-octanol/water)	Data not available
· Viscosity	
Dynamic	Data not available
Kinematic	Data not available
· 9.2 Other information	Data not available

## SECTION 10: Stability and reactivity

- 10.1 Reactivity: No decomposition if used according to specification.
- 10.2 Chemical stability: Stable under recommended storage conditions.
- 10.3 Possibility of hazardous reactions: No further relevant information available.
- 10.4 Conditions to avoid: Heat and flame.
- 10.5 Incompatible materials: Strong acid and flammable substance.
- 10.6 Hazardous decomposition products: No further relevant information available.

## SECTION 11: Toxicological information

### • 11.1 Information on toxicological effects

#### • Acute toxicity

#### • LD/LC50 values relevant for classification:

1 CAS No.: 122-99-6 2-phenoxyethanol		
Rabbit	LD50-skin	5mL/kg
Rat	LD50-oral	1260mg/kg
Mouse	LD50-oral	933mg/kg
2 CAS No.: 108-95-2 Phenol		
Mouse	LD50-oral	270mg/kg
	LC50-inhalation	177mg/m <sup>3</sup>
Rabbit	LD50-skin	630mg/kg
Rat	LC50-inhalation	316mg/m <sup>3</sup>
	LD50-oral	317mg/kg
	LD50-skin	669mg/kg

#### • Primary irritant effect

- **On the skin:** Irritating effect possible.
- **On the eye:** Irritating effect.
- **Sensitization:** Sensitization possible.

#### • Additional toxicological information:

The product shows the following dangers according to the calculation method based on the EU Directives 67/548/EEC, 1999/45/EC and Regulation 1272/2008:

Harmful if swallowed

Irritant to eyes.

- **Toxicokinetics, metabolism and distribution:** No further relevant information available.
- **Acute effects (acute toxicity, irritation and corrosivity):** No further relevant information available.
- **Repeated dose toxicity:** No further relevant information available.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):** No further relevant information available.

## SECTION 12: Ecological information

### • 12.1 Toxicity

• **Aquatic toxicity:** Data not available

• **12.2 Persistence and degradability:** No further relevant information available.

• **12.3 Bio-accumulative 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.

### • 12.7 Additional ecological information

• **General notes:** Water hazard class 1 (German Regulation) (self-assessment): Slightly hazardous for



water.

Do not allow large quantities of the product to reach ground water, water course or sewage system

### SECTION 13: Disposal consideration

• **13.1 Waste treatment methods**

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

• **Un-cleaned packaging**

• **Recommendation:** Dispose of contents/container in according to the local/regional/national/international regulation.

### SECTION 14: Transport information

*This product is not regulated as a hazardous material or dangerous goods for transportation.*

• <b>UN-Number</b> ADR, IMDG, IATA	Not applicable
• <b>UN proper shipping name</b> ADR, IMDG, IATA	Not applicable
• <b>Transport hazard class (es)</b> ADR, IMDG, IATA Class Label	Not applicable Not applicable
• <b>Packing group</b> ADR, IMDG, IATA	Not applicable
• <b>Marine pollution</b>	No
<b>Special precautions for user:</b>	Not applicable
• <b>UN "Model Regulation":</b>	-

### SECTION 15: Regulatory information

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

• **MAK (German Maximum Workplace Concentration):**

CAS No.: 122-99-6	2-phenoxyethanol	C
CAS No.: 108-95-2	Phenol	3B

• **National regulations**

• **Water hazard class:** Water hazard class 1 (German Regulation) (self-assessment): Slightly hazardous for water.

• **Other regulations, limitations and prohibitive regulations**

• **SVHC Candidate list of REACH Regulation Annex XIV Authorization (19/12/2012):** None of the ingredients is listed.

• **REACH Regulation Annex XVII Restriction (13/2/2013):** None of the ingredients is listed.

• **REACH Regulation Annex XIV Authorization List (17/4/2013):** None of the ingredients is listed.

• **Chemical safety assessment:** A Chemical Safe Assessment has not been carried out.

**SECTION 16: Other information**

**Relevant phrases:**

- R22 Harmful if swallowed
- R34 Causes burns
- R36 Irritating to the eyes
- R68 Irritating to the skin
- R23/24/25 Toxic by inhalation, in contact with skin and if swallowed
- R48/20/21/22 Harmful: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed
- H301 Toxic if swallowed
- H302 Harmful if swallowed
- H311 Toxic in contact with skin
- H314 Causes severe skin burns and eye damage
- H319 Causes serious eye irritation
- H331 Toxic if inhaled
- H341 Suspected of causing genetic defects
- H373 May cause damage to organs

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**The contents and format of this SDS are in accordance with REGULATION (EC) No 1272/2008, REGULATION (EC) 453/2010, REGULATION (EC) No 1907/2006, EU Commission Directive 1999/45/EC, 67/548/EEC.**

**DISCLAIMER OF LIABILITY:**

*The information in this MSDS/SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS/SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS/SDS information may not be applicable.*

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**· 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 Labeling of Chemicals

**DNEL:** Derived No-Effect Level (REACH)

**PNEC:** Predicted No-Effect Concentration (REACH)

**LD50:** Lethal dose, 50 percent

**LC50:** Lethal concentration, 50 percent

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**End of safety data sheet**