

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

### 1.1 Product identifiers

Product name (Synonym) : 1,2-Hexanediol (1,2-Dihydroxyhexane, 1,2-Hexylene Glycol)  
INCI Name : 1,2-Hexanediol  
Product Name : CHD-60  
Brand Name : COEMDIOL-6  
CAS-No. : 6920-22-5  
EC-No. : 230-029-6

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

Identified uses : Cosmetic additive(moisturizer,anti-microbial), Manufacture of substances

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

Company : COEM CO., LTD.  
(# 149-1 Pyeongchon-dong Daedeok-gu Daejeon, KOREA)  
Telephone : +82 -42-933-9898  
Fax. : +82 -42-933-9292  
e-mail address : corehbs@daum.net

### 1.4 Emergency telephone number

Emergency Phone : +82-10-2405-1166

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008

Skin irritation (Category 2), H315

Eye irritation (Category 2), H319

Specific target organ toxicity - single exposure (Category 3), H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

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

Xi Irritant R36/37/38

For the full text of the R-phrases mentioned in this Section, see Section 16.

### 2.2 Label elements

#### Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word : Warning

Hazard statement(s)

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

according to Regulation (EC) No. 1907/2006  
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GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

## Precautionary statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard Statements none

## 2.3 Other hazards - none

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Formula :  $C_6H_{14}O_2$   
Molecular Weight : 118.17 g/mol  
CAS-No. : 6920-22-5  
EC-No. : 230-029-6

#### Hazardous ingredients according to Regulation (EC) No 1272/2008

Component		Classification	Concentration
<b>DL-Hexane-1,2-diol</b>			
CAS-No.	6920-22-5	Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H315, H319, H335	<= 100 %
EC-No.	230-029-6		

#### Hazardous ingredients according to Directive 1999/45/EC

Component		Classification	Concentration
<b>DL-Hexane-1,2-diol</b>			
CAS-No.	6920-22-5	Xi, R36/37/38	<= 100 %
EC-No.	230-029-6		

For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section 16

## 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.

#### Eye Contact:

Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes. Do not use an eye ointment. Seek medical attention.

#### Skin Contact:

In case of contact, immediately flush skin with plenty of water.  
Cover the irritated skin with an emollient.

#### Serious Skin Contact:

Immediately flush skin with plenty of water.  
Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream.

**Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration.

If breathing is difficult, give oxygen. Get medical attention.

**Ingestion:**

Do NOT induce vomiting unless directed to do so by medical personnel.

Never give anything by mouth to an unconscious person.

If large quantities of this material are swallowed, call a physician immediately.

Loosen tight clothing such as a collar, tie, belt or waistband.

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**SECTION 5: Firefighting measures****5.1 Flammability**

May be combustible at high temperature. (Flash point: 122 °C )

**5.2 Extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Do not use water jet.

**5.3 Special hazards arising from the substance or mixture**

Carbon oxides

**5.4 Advice for firefighters**

Wear self contained breathing apparatus for fire fighting if necessary.

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**SECTION 6: Accidental release measures****6.1 Attentions**

Shut off any source of ignition, ventilate the area and exercise caution.

**6.2 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

Evacuate personnel to safe areas.

**6.3 Environmental precautions**

Do not let product enter drains.

**6.4 Methods and materials for containment and cleaning up**

Soak up with inert absorbent material and dispose of as hazardous waste.

Keep in suitable, closed containers for disposal.

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**SECTION 7: Handling and storage****7.1 Attentions**

Keep away from heat and source of ignition.

**7.2 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Normal measures for preventive fire protection.

For precautions see section 2.2.

**7.3 Conditions for safe storage, including any incompatibilities**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

**Components with workplace control parameters**

### 8.2 Exposure controls

#### **Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice.

Wash hands before breaks and at the end of workday.

#### **Personal protective equipment**

##### **Eye/face protection**

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

##### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of

contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

##### **Body Protection**

impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

##### **Control of environmental exposure**

Do not let product enter drains.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- |                    |                                      |
|--------------------|--------------------------------------|
| a) Appearance      | Form: liquid<br>Colour: light yellow |
| b) Odour           | no data available                    |
| c) Odour Threshold | no data available                    |
| d) pH              | no data available                    |

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- d) pH
- e) Melting point/freezing point
- f) Initial boiling point and boiling range 223 - 224 °C - lit.
- g) Flash point 122 °C - closed cup
- h) Evaporation rate no data available
- i) Flammability (solid, gas) no data available
- j) Upper/lower flammability or explosive limits no data available
- k) Vapour pressure no data available
- l) Vapour density no data available
- m) Relative density 0,951 g/cm<sup>3</sup> at 25 °C
- n) Water solubility no data available
- o) Partition coefficient: n-octanol/water no data available
- p) Auto-ignition temperature no data available
- q) Decomposition temperature no data available
- r) Viscosity no data available
- s) Explosive properties no data available
- t) Oxidizing properties no data available

**9.2 Other safety information**

no data available

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**SECTION 10: Stability and reactivity****10.1 Reactivity**

no data available

**10.2 Chemical stability**

Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**

no data available

**10.4 Conditions to avoid**

Avoid excessive heat and light.

**10.5 Incompatible materials**

Strong oxidizing agents, Strong alkalis (bases)

**10.6 Hazardous decomposition products**

Other decomposition products - no data available

In the event of fire: see section 5

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity**

no data available

**Skin corrosion/irritation**

no data available

**Serious eye damage/eye irritation**

no data available

**Respiratory or skin sensitisation**

no data available

**Germ cell mutagenicity**

no data available

**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.

**Reproductive toxicity**

no data available

**Specific target organ toxicity - single exposure**

Inhalation - May cause respiratory irritation.

**Specific target organ toxicity - repeated exposure**

no data available

**Aspiration hazard**

no data available

**Additional Information**

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated., prolonged or repeated exposure can cause:, Nausea, Headache, Vomiting

**SECTION 12: Ecological information****12.1 Toxicity**

no data available

**12.2 Persistence and degradability**

no data available

**12.3 Bioaccumulative potential**

no data available

**12.4 Mobility in soil**

no data available

**12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

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## 12.6 Other adverse effects

no data available

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

### Contaminated packaging

Dispose of as unused product.

## SECTION 14: Transport information

### 14.1 UN number

ADR/RID: -

IMDG: -

IATA: -

## 14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

### 14.3 Transport hazard class(es)

ADR/RID: -

IMDG: -

IATA: -

## 14.4 Packaging group

ADR/RID: -

IMDG: -

IATA: -

## 14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

## 14.6 Special precautions for user

no data available

## SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

no data available

## 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

### 15.3 Other Regulations/ Classifications

**(Other Regulations):**

**Federal and State Regulations:** TSCA 8(b) inventory: DL-1,2-Hexanediol

**EU Regulations( EINECS):**This product is on the European Inventory of Existing Commercial Chemical Substances.

**(Other Classifications):****WHMIS(Canada):** Not controlled under WHMIS (Canada).**DSCL (EEC):**

R36/38- Irritating to eyes and skin.

S2- Keep out of the reach of children.

S46- If swallowed, seek medical advice immediately and show this container or label.

**HMIS (U.S.A.):**

Health Hazard (2) / Fire Hazard (1) / Reactivity (0) / Personal Protection (h)

National Fire Protection Association (U.S.A.):

Health (1) / Flammability (1) / Reactivity (0) / Specific hazard: none / Protective Equipment

(Gloves, Lab coat)

**SECTION 16: Other information****Full text of H-Statements referred to under sections 2 and 3.**

Eye Irrit. Eye irritation

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Skin Irrit. Skin irritation

STOT SE Specific target organ toxicity - single exposure

Xi Irritant

R36/37/38 Irritating to eyes, respiratory system and skin.

**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)

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DOT: US Department of Transportation

EINECS: European Inventory of Existing Commercial Chemical Substances

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

HMIS: Hazardous Materials Identification System (USA)

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

IMDG: International Maritime Code for Dangerous Goods

RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer  
(Regulations Concerning the International Transport of Dangerous Goods by Rail)**References:****US FEDERAL****TSCA :** CAS# 6920-22-5 is listed on the TSCA inventory.**Health & Safety Reporting List :** None of the chemicals are on the Health & Safety Reporting List.**Chemical Test Rules :** None of the chemicals in this product are under a Chemical Test Rule.**Section 12b :** None of the chemicals are listed under TSCA Section 12b.**TSCA Significant New Use Rule :** None of the chemicals in this material have a SNUR under TSCA.



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## SARA

**CERCLA Hazardous Substances and corresponding RQs** : None of the chemicals in this material have an RQ.

**SARA Section 302 Extremely Hazardous Substances** : None of the chemicals in this product have a TPQ.

**Section 313** : No chemicals are reportable under Section 313.

**Clean Air Act** : This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

**Clean Water Act** : None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

**OSHA** : None of the chemicals in this product are considered highly hazardous by OSHA.

## STATE

CAS# 6920-22-5 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California No Significant Risk Level: None of the chemicals in this product are listed.

## European/International Regulations

### European Labeling in Accordance with EC Directives

**Hazard Symbols** : Xi

**Risk Phrases** : R 36/37/38 Irritating to eyes, respiratory system and skin.

**Safety Phrases** : S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S 37 Wear suitable gloves. S 37/39 Wear suitable gloves and eye/face protection. S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S 28A After contact with skin, wash immediately with plenty of water.

**WGK (Water Danger/Protection)** CAS# 6920-22-5: 1

**Canada - DSL/NDSL** CAS# 6920-22-5 is listed on Canada's NDSL List.

**Canada - WHMIS** WHMIS: Not available.

## Canadian Ingredient Disclosure List

## Exposure Limits

## Further information

The above information is believed to be correct but does not claim to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. It does not represent any guarantee of the properties of the product. COEM CO., LTD. shall not be held liable for any damage resulting from handling or from contact with the above product.

## MSDS Created by:

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