

Safety Data Sheet

According to UN GHS 4th rev.

Version 5.0 GHS

EVERSORB 93



臺灣永光化學工業股份有限公司

EVERLIGHT CHEMICAL INDUSTRIAL CORPORATION

Safety Data Sheet - According to UN GHS 4th rev

Product Name:

Revision: 2021/7/26

EVERSORB 93

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier :

Trade name: Eversorb 93

Other means of identification: None

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

1.2.1 Relevant identified uses: Light stabilizer in coating and plastics

1.2.2 Use advised against: This material is not intended for use in products for which prolonged contact with mucous membranes, body fluids or abraded skin, or implantation within the human body.

1.3 Details of the supplier of the safety data sheet:

Supplier name: Everlight Chemical Industrial Corporation

Address: 5~6F., No.77, Sec.2, DunHua S. Rd., Taipei 106, Taiwan

Tel: +886-2-27066006

Fax: +886-2-23263599

Information contact: Sales-uva@ecic.com.tw

1.4 Emergency telephone number:

All the following numbers are 24 hr.

Taiwan 886-3-4837682

2. Hazard(s) identification

According to UN GHS criteria

2.1 Classification of the substance or mixture

Skin sensitization, Category 1a : H317

Reproductive toxicity, Category 2(Fertility) : H361

Chronic aquatic toxicity, Category 1 : H410

Acute aquatic toxicity, Category 1 : H400

2.2 Label elements

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**Signal word:**

Warning

Hazard statements:

H317: May cause an allergic skin reaction.

H361: Suspected of damaging fertility.

H410: Very Toxic to aquatic life with long lasting effects.

H400: Very toxic to aquatic organisms.

Precautionary statements:

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/ eye protection

Response statements:

P101 If medical advice is needed, have product container or label at hand.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P310 Immediately call a POISON CENTER or doctor/physician.

P321 Specific treatment (see on this label).

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

Storage statements:

None

2.3 Other hazards

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None

3. Composition / Information on ingredient

According to UN GHS criteria

3.1 Substance/preparation: Mixture

3.1.1 Description of the mixture: Mixture of Light stabilizers

3.1.2 Hazardous ingredients :

Component	% by weight
Decanedioic acid, bis(1,2,2,6,6-pentamethyl-4-piperidiny) ester	70-80
CAS No. 41556-26-7	
Decanedioic acid, (1,2,2,6,6-pentamethyl-4-piperidiny) methyl ester	20-30
CAS No. 82919-37-7	

3.1.3 Additional information

Full text of H- and EUH-phrases : See section 16

4. First aid measure

4.1 Description of first aid measures:

4.1.1 General advice:

Move victim from the contaminated workplace to ventilated place. Call the hospital for medical assistance, and provide emergency treatment.

4.1.2 Inhaled:

Remove victim to fresh air immediately. Get medical aid immediately.

4.1.3 Skin contact:

Remove contaminated clothing and shoes. Wash with soap and water.

4.1.4 Contact with eyes:

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Get medical aid immediately.

4.1.5 Ingestion:

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Wash out mouth with water and then drink plenty of water.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed:

Treat symptomatically and supportively.

5. Fire fighting measures

5.1 Extinguishing media:

Water fog, Foam, Dry chemical powder, CO₂

5.2 Special hazards arising from the substance or mixture:

Decomposition products may include the following materials: carbon dioxide, carbon monoxide, sulfur oxides, phosphorus oxides

5.3 Advice for fire-fighters:

Good firefighting practice dictates the use of self-contained breathing apparatus and turnout gear.

5.4 Further information:

Contaminated extinguishing water must be disposed of in accordance with local regulations.

6. Accidental release measures

6.1 Personal precautions:

6.1.1 Removal of ignition sources.

6.1.2 Provision for sufficient ventilation.

6.1.3 Respiratory protection.

6.1.4 Prevention of skin and eye contact.

6.2 Environmental precautions:

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6.2.1 Keep away from drains, surface and groundwater and soil.

6.2.2 To alert the neighborhood.

6.3 Methods and material for containment and cleaning up:

Take up with absorbent, inert material (e.g. sand) and place in suitable and close container for disposal.

6.4 Reference to other sections:

Refer to protective measure list in Sections 8 and 13.

7. Handling and storage

7.1 Precautions for safe:

Use safety glasses and gloves, and coveralls as necessary when using it, to prevent skin contact.

7.2 Conditions for safe storage, including any incompatibilities:

The substances in our product are very stable, please put it in the ventilate place. Keep away from food and drink.

7.3 Specific end uses:

None

8. Exposure controls and personal protection

8.1 Control parameters:

- Exposure limits at intended use:

Inhalation - Long term - Systemic effect - Workers- DNEL (Eversorb 93): 3.53 mg/m³

Dermal - Long term - Systemic effect - Workers- DNEL (Eversorb 93): 2 mg/kg bw/day

Inhalation - Long term - Systemic effect - Consumer- DNEL (Eversorb 93): 0.87 mg/m³

Dermal - Long term - Systemic effect - Consumer- DNEL (Eversorb 93): 1 mg/kg bw/day

Oral- Long term - Systemic effect - Consumer - DNEL (Eversorb 93): 0.5 mg/kg bw/day

Fresh water - PNEC (Eversorb 93): 0.0022 mg/L

Sediment - Fresh water - PNEC (Eversorb 93): 1.05 mg/kg

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Marine water - PNEC (Eversorb 93): 0.00022 mg/L

Sediment - Marine water - PNEC (Eversorb 93): 0.11 mg/kg

Sewage treatment plant - PNEC (Eversorb 93): 1 mg/L

Soil - PNEC (Eversorb 93): 0.21 mg/kg

8.2 Exposure controls:

-Respiratory protection: Suitable respiratory protection for higher concentrations or long-term effect: Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2)

-Hand protection: Chemically resistant gloves conform to EN374, e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7mm) and other; breakthrough time (maximum wear duration): 480 min.



- Eye protection: Safety glasses with side-shields (frame goggles) (e.g. EN 166).

-Body protection: Wear category II professional long-sleeved overalls (ref. Directive 89/686/CEE and standard EN 344), e.g. hooded disposable overall in PVC with film lamination. Protective shoes/boots is not required. Wash body with soap and water after removing overalls.

8.3 General safety and hygiene measures:

The usual precautions for the handling of chemicals must be observed.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Appearance

- | | |
|------------------|-----------------|
| - Physical Form: | Liquid |
| - Colour: | Slightly yellow |
| - Odour: | None |

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Safety relevant basic data

- Melting Point:	No data available.
- Boiling point/boiling range	>350°C
- Flash Point:	250°C by ASTM D92 test method
- Evaporation Rate:	No data available
- Upper explosive limits:	Does not apply, substance is not flammable.
- Lower explosive limits:	Does not apply, substance is not flammable.
- Ignition temperature:	380°C
- Vapor pressure:	1.0E-4Pa at 20°C
- Density: :	0.99 g/cm ³ at 20 °C
- Partition coefficient:	No data available.
- Decomposition temperature:	No data available.
- Viscosity, dynamic:	300-500 cps at 20°C
- Oxidizing properties:	No data available.
- Explosion hazard:	No data available.
- Solubility in water:	<0.1% at 20°C
- pH value:	No Data.

9.2 Other information

None.

10. Stability and reactivity

10.1 Reactivity:

None

10.2 Chemical Stability:

Stable under normal temperatures and pressures.

10.3. Hazardous reactions:

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None

10.4 Conditions to avoid:

Heat, static discharge

10.5 Incompatible materials:

Strong acid, strong bases and strong oxidizing agents, Moisture.

10.6 Hazardous decomposition products:

If involved in a fire, CO, CO₂, NO_x, maybe liberated.

11. Toxicological information

11.1 Information on toxicological effects:

Acute toxicity

- LD50/oral/rat: >3230 mg/kg

Skin irritation (tested on rabbits): Non-irritation

Eye irritation (tested on rabbits): Non-irritation

Acute skin sensitization (tested on Guinea H317: May cause an allergic skin reaction. pig):

12. Ecological information

12.1 Toxicity:

LC50 (zebra fish): 0.9 mg/l (96 hr), H410: Very Toxic to aquatic life with long lasting effects.

NOEC mortality (daphnia): 6.3 mg/l (21 day)

EC50 yield (algae): 0.22 mg/l (72 hr): H400: Very toxic to aquatic organisms.

12.2 Persistence and degradability:

- Abiotic degradation: No data available.

- Chemical oxidation demand (COD) value: No data available

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- Biological oxidation demand (BOD) value: No data available
- AOX: No data available
- Total organic con.(TOC): No data available
- Volatile organic compound (VOC): No data available
- Biodegradability: No data available.

12.3 Bioaccumulative potential:

- Partition coefficient (n-octanol/water): No data available
- Bioconcentration factor (BCF): No data available.

12.4 Mobility in soil: No data available.

12.5 Results of PBT and vPvB assessment:

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6 Other adverse effects: None

13. Disposal considerations

13.1 Waste treatment methods:

Product:

Incinerate or bury in a licensed facility .Do not discharge into waterways or sewer systems without proper authority.

Contaminated packaging:

Dispose it in a licensed facility. Recommend crushing or other means to prevent non-authorized reuse.

14. Transport information

14.1 UN Number : 3082

14.2 UN Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, LIQUID, N.O.S. (contains Hindered amine
light stabilizer derivative mixture)

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14.3 Transport hazard class(es) : 9

14.4 Packing group : III

14.5 Environmental hazards Marine pollutant (Yes/No): Yes

14.6 Special precautions for user: No special precautions are required for this product

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

Other information:

Flash Point: 250°C by ASTM D92 test method

ADR/RID :
Class : 9
Packaging group : III
UN No. : 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, LIQUID, N.O.S
Additional information : Hindered amine light stabilizer derivative mixture

IMDG : :
Class : 9
Packaging group : III
UN No. : 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, LIQUID, N.O.S
Additional information : Hindered amine light stabilizer derivative mixture

IATA/ICAO :
Class : 9
Packaging group : III

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UN No. : 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, LIQUID, N.O.S

Additional information : Hindered amine light stabilizer derivative mixture

15. Regulatory information

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

US REGULATIONS

TSCA INVENTORY STATUS: Listed

EUROPEAN REGULATIONS

EC NUMBER: Listed

REACH Registration Listed

AUSTRALIA REGULATIONS

Listed on the Australian Inventory of Chemical Substances (AICS)

CANADA REGULATIONS :

Listed on the Canadian Domestic Substances List (DSL)

CHINA REGULATIONS :

Listed on the IECSC

JAPAN REGULATIONS:

Listed on the Japanese Existing and New Chemical Substances (ENCS)

KOREA REGULATIONS:

Listed on the Korean Existing Chemicals List (ECL)

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PHILIPPINES REGULATIONS:

Listed on the Philippines Inventory of Chemicals and Chemical Substances (PICCS)

NEW ZEALAND REGULATIONS

Listed on the NZIoC

TAIWAN REGULATIONS

Listed on Taiwan National Existing Chemical Substance Inventory (NECSI)

15.2 Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

16. Other information

16.1 Indication of changes:

Update Section 2. Hazard(s) identification

16.2 Abbreviations and acronyms:

CAS: Chemical Abstracts Service

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

CLP: Classification, labelling and packaging of substances and mixtures

EC: European Community number

GHS: Globally harmonized system

IUPAC: The International Union of Pure and Applied Chemistry

LD50: Lethal dose, 50 percent

LC50: Lethal concentration, 50 percent

ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road.

RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail.

IMDG: International Maritime Dangerous Goods.

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

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OSHA: Occupational Safety and Health Act

SARA: Superfund Amendments and Reauthorization Act

TSCA: Toxic Substance Control Act

16.3 Hazard-determining components of labeling:

H-Statements:

H317: May cause an allergic skin reaction.

H361: Suspected of damaging fertility

H410: Very Toxic to aquatic life with long lasting effects.

H400: Very Toxic to aquatic life

The data given here is based on current knowledge and experience. The purpose of this safety data sheet is to describe the products in terms of their safety requirements. The data does not signify any guarantee with regard to the product's properties.

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