

## Safety Data Sheet

ECOLINE Safety data sheet to Regulation (EC) No. 1907/2006

Date / Revised: 20.09.2016 - Version: 0.0

Product: **ELASTOPOR H 2130/3/P – Polyol Component**

Print dated 29.09.2016

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

**Product identifier:**

**ELASTOPOR H 2130/3/P**

**Relevant identified uses of the  
substance or mixture and uses  
advised against:**

Recommended use:

Polyurethane component

**Details of the supplier of the safety  
data sheet**

Company:

ECOLINE S.r.l.  
Via Fornace, 34  
26039 – Vescovato (CR)

Telephone: +39 0372 830701  
E-mail address: info@ecoline.it

**Emergency telephone number**

International emergency number:

Telephone: +49 180 2273-112

### 2. Hazards Identification

**Classification of the substance or mixture and label elements**

According to Regulation (EC) No 1272/2008 [CLP]

Globally Harmonized System, EU (GHS)

Pictogram:



Signal Word:

Danger

Hazard Statement:

H225

Highly flammable liquid and vapour.

Precautionary Statements (Prevention):

P210

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

P240

Ground/bond container and receiving equipment.

P280

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

Precautionary Statements (Response):

P303 + P361 + P353

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Precautionary Statements (Storage):

P403 + P235

Store in a well-ventilated place. Keep cool.

Precautionary Statements (Disposal):

P501

Dispose of contents/container to hazardous or special waste collection point.

**Classification of the substance or mixture**
According to Regulation (EC) No 1272/2008 [CLP]

Flam. Liq. 2

For the classifications not written out in full in this section the full text can be found in section 16.

**Other hazards**
According to Regulation (EC) No 1272/2008 [CLP]

Other hazards (GHS):

No specific dangers known, if the regulations/notes for storage and handling are considered.

### 3. Composition/Information on Ingredients

**Mixtures**
Chemical nature

Preparation based on: polyol, catalyst, propellant, additives

Hazardous ingredients (GHS)

according to Regulation (EC) No. 1272/2008

**cyclohexyldimethylamine**

 Content (W/W):  $\geq 0,1\%$  -  $< 1\%$   
 CAS Number: 98-94-2  
 EC-Number: 202-715-5  
 REACH registration number:  
 01-2119533030-60

 Flam. Liq. 3  
 Acute Tox. 3 (oral)  
 Acute Tox. 3 (dermal)  
 Acute Tox. 3 (inhalation – vapour)  
 Skin Corr./Irrit. 1B  
 H226, H301, H311, H314, H331

**cyclopentane**

 Content (W/W):  $\leq 5\%$   
 CAS Number: 287-92-3  
 EC-Number: 206-016-6  
 REACH registration number:  
 01-2119463053-47  
 INDEX-Number: 601-030-00-2

 Flam. Liq. 2  
 Aquatic Chronic 3  
 H225, H412

**Polyether Polyol based on amine**

 Content (W/W):  $\geq 10\%$  -  $< 25\%$   
 CAS Number: 67800-94-6  
 REACH registration number:  
 01-2119462836-28

 Acute Tox. 4 (oral)  
 H302

For the classifications not written out in full in this section, including the indication of danger, the hazard symbols, the R phrases, and the hazard statements, the full text is listed in section 16.

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## 4. First-Aid Measures

### Description of first aid measures

Remove contaminated clothing.

If inhaled:

If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

On skin contact:

Wash thoroughly with soap and water.

On contact with eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Immediately rinse mouth and then drink plenty of water, do not induce vomiting, seek medical attention.

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

Symptoms: No significant reaction of the human body to the product known.

Hazards: No hazards anticipated.

### Indication of any immediate medical attention and special treatment needed

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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## 5. Fire-Fighting Measures

### Extinguishing media

Suitable extinguishing media:

water spray, dry powder, foam, carbon dioxide

### Special hazards arising from the substance or mixture

carbon monoxide, Carbon dioxide, nitrogen oxides

The substances/groups of substances mentioned can be released in case of fire.

### Advice for fire-fighters

Special protective equipment:

Wear a self-contained breathing apparatus.

Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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## 6. Accidental Release Measures

High risk of slipping due to leakage/spillage of product

### Personal precautions, protective equipment and emergency procedures

Sources of ignition should be kept well clear. Use personal protective clothing.

### Environmental precautions

Do not empty into drains. Do not discharge into the subsoil/soil.

### Methods and material for containment and cleaning up

For large amounts: Pump off product.

For residues: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

Dispose of contaminated material as prescribed.

## Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

## 7. Handling and Storage

### Precautions for safe handling

Ensure thorough ventilation of stores and work areas.

#### Protection against fire and explosion:

Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

### Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds. Segregate from acids. Segregate from oxidants.

Suitable materials for containers: carbon steel (iron), High density polyethylene (HDPE), Low density polyethylene (LDPE), tin (tinplate), Stainless steel 1.4301 (V2)

Further information on storage conditions: Containers should be stored tightly sealed in a dry place.

### Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

## 8. Exposure Controls/Personal Protection.

### Control parameters

#### Components with occupational exposure limits

Does not contain components with substance specific occupational exposure limits

#### Components with PNEC

#### 98-94-2: Cyclohexyldimethylamine

freshwater:	0,002 mg/l
Marine water:	0,0002 mg/l
Intermittent release:	0,02 mg/l
sediment (freshwater):	0,0211 mg/Kg
sediment (marine water):	0,00211 mg/Kg
soil:	0,00305 mg/Kg
STP:	20,6 mg/l

#### 67800-94-6: Benzenediamine, ar-methyl-, ethoxylated and propoxylated (>1 <5,5 mol EO and >1 <5,5 mol PO)

freshwater:	0,02 mg/l
Marine water:	0,002 mg/l
Intermittent release:	1 mg/l
STP:	100 mg/l
sediment (freshwater):	0,02 mg/Kg
soil:	0,00588 mg/Kg

#### Components with DNEL

#### 98-94-2: cyclohexyldimethylamine

worker: Long-term exposure – systemic /local effects, Inhalation: 35 mg/m3

#### 67800-94-6: Benzenediamine, ar-methyl-, ethoxylated and propoxylated (>1 <5,5 mol EO and >1 <5,5 mol PO)

worker:	Long-term exposure - systemic effects, dermal: 7 mg/Kg
worker:	Long-term exposure - systemic effects, Inhalation: 3,9 mg/m3
consumer:	Long-term exposure - systemic effects, dermal: 4,2 mg/Kg
consumer:	Long-term exposure - systemic effects, Inhalation: 1,2 mg/m3
consumer:	Long-term exposure - systemic effects, oral: 0,33 mg/Kg

## Exposure controls

### Personal protective equipment

#### Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2).

#### Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact

(Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374):

E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other.

#### Eye protection:

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

### General safety and hygiene measures

Wearing of closed work clothing is required additionally to the stated personal protection equipment. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied.

## 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

Form:	liquid	
Colour:	yellowish	
Odour:	aliphatic	
Odour threshold:	not applicable	
pH Value:	ca. 7 ÷ 9 (20 °C)	
Solidification temperature:	< 0 °C	
Boiling point:	> 140 °C (1013 hPa)	
Flash Point	< 18 °C	(DIN 51755)
Flammability	not applicable	
<u>Informations on: cyclopentane</u>		
Lower explosion limit:	1,4% (V)	
<u>Informations on: cyclopentane</u>		
Upper explosion limit:	8,0% (V)	
Ignition temperature:	> 250 °C	
Vapour pressure:	< 350 mbar (20 °C) < 80 kPa (50 °C)	
Density:	1,06 g/cm <sup>3</sup> (20 °C)	(DIN 51755)
Solubility in water:	sparingly soluble	
Partitioning coefficient n-octano/water (log K <sub>ow</sub> ):	not applicable	
Thermal decomposition	No decomposition if stored and handled as prescribed/indicated..	

### Other information

Miscibility with water:	partly miscible	
Flow time:	100 s (23 °C)	(DIN EN ISO 2431)
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.	

## 10. Stability and Reactivity

### Reactivity

Corrosion to metals:	No corrosive effect on metal
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**Chemical stability**

The product is stable if stored and handled as prescribed/indicated.

**Possibility of hazardous reactions**

No hazardous reactions if stored and handled as prescribed/indicated.

**Conditions to avoid**

temperature: < 0 °C

Avoid all sources of ignition: heat, sparks, open flame.

**Incompatible materials**

Substances to avoid: acids, oxidizing agents, isocyanates

**Hazardous decomposition products**

No hazardous decomposition products if stored and handled as prescribed/indicated.

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**11. Toxicological Information****Information on toxicological effects**Acute toxicity

Assessment of acute toxicity:

Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation.

Virtually nontoxic after a single ingestion.

Information on: Polyether Polyol based on amine

*Experimental/calculated data:*

*LD50 rat (oral): 500 - < 2.000 mg/kg*

Irritation

Assessment of irritating effects:

Not irritating to the eyes. Not irritating to the skin.

Respiratory/Skin sensitization

Assessment of sensitization:

The chemical structure does not suggest a sensitizing effect.

Information on: Polyether Polyol based on amine

*Experimental/calculated data:*

*Not sensitizing*

Germ cell mutagenicity

Assessment of mutagenicity:

The chemical structure does not suggest a specific alert for such an effect.

Carcinogenicity

Assessment of carcinogenicity:

The chemical structure does not suggest a specific alert for such an effect.

Reproductive toxicity

Assessment of reproduction toxicity:

The chemical structure does not suggest a specific alert for such an effect.

Developmental toxicity

Assessment of teratogenicity:

The chemical structure does not suggest a specific alert for such an effect.

Specific target organ toxicity (single exposure)

## Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

## Assessment of repeated dose toxicity:

Repeated dermal uptake of the substance did not cause substance-related effects.

Repeated inhalative uptake of the substance did not cause substance-related effects.

Repeated oral uptake of the substance did not cause substance-related effects.

Aspiration hazard

No aspiration hazard expected.

Other relevant toxicity information

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

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## 12. Ecological Information

**Toxicity**

## Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms.

Information on: PolyetherPolyol based on amineAquatic invertebrates:

CL50 (48 h) > 100 mg/l, *Brachydanio rerio*

**Persistence and degradability**Assessment biodegradation and elimination (H<sub>2</sub>O):

Poorly biodegradable.

## Elimination information:

Poorly biodegradable.

**Bioaccumulative potential**

## Assessment bioaccumulation potential:

Does not significantly accumulate in organisms.

**Mobility in soil (and other compartments if available)**

## Assessment transport between environmental compartments:

Adsorption to solid soil phase is not expected.

**Results of PBT and vPvB assessment**

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria.

**Other adverse effects**

The product does not contain substances that are listed in Annex I of Regulation (EC) 2037/2000 on substances that deplete the ozone layer.

**Additional information**

## Adsorbable organically-bound halogen (AOX):

This product contains no organically-bound halogen.

Other ecotoxicological advice:

Do not allow to enter soil, waterways or waste water channels. Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

## 13. Disposal Consideration

### Waste treatment methods

I Incinerate in suitable incineration plant, observing local authority regulations.

#### Waste key

07 02 08<sup>a</sup> other still bottoms and reaction residues

#### Contaminated packaging:

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

## 14. Transport Information

### Land transport

#### ADR

Hazard class(es):	3
Packing group:	II
UN Number:	UN 1866
Hazard Label:	3
Identification Number of hazard:	33
Tunnel Code	D/E
UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (contains CYCLOPENTANE)

#### RID

Hazard class(es):	3
Packing group:	II
UN Number:	UN 1866
Hazard Label:	3
Identification Number of hazard:	33
Tunnel Code	D/E
UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (contains CYCLOPENTANE)

### Inland waterway transport

#### ADN

Hazard class(es):	3
Packing group:	II
UN Number:	UN 1866
Hazard Label:	3
UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (contains CYCLOPENTANE)

### Sea transport

#### IMDG

Hazard class:	3
Packing group:	II
UN Number:	UN 1866
Hazard label:	3
Marine pollutant:	NO
UN Proper shipping name:	FLAMMABLE LIQUID, N.O.S. (contains CYCLOPENTANE)



## Air transport

### IATA/ICAO

Hazard class:	3
Packing group:	II
UN Number:	UN 1866
Hazard label:	3
UN Proper shipping name:	FLAMMABLE LIQUID, N.O.S. (contains CYCLOPENTANE)

## 15. Regulatory Information

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

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

### Chemical Safety Assessment

Chemical Safety Assessment not yet performed due to registration timelines. Exposure scenarios for the mixture can not be provided at the moment because exposure scenarios are not yet available for all relevant substances due to registration timelines. For advice on essential measures see sections 7 and 8 of this safety data sheet.

## 16. Other Information.

Full text of the classifications, including the indication of danger, the hazard symbols, the R phrases, and the hazard statements, if mentioned in section 3:

Flam. Liq.	Flammable liquid.
Acute Tox.	Acute toxicity.
Skin Corr./Irrit.	Skin corrosion/irritation.
Eco chronic	Hazardous to the aquatic environment - chronic.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H331	Toxic if inhaled.
H412	Harmful to aquatic life with long lasting effects.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.