



S a f e t y D a t a S h e e t
According to Regulation (EC) 1907/2006

326165 **Mixture Cyclohexane/Ethyl Acetate 1:1 v/v (PAR) PAI**

1. Identification of the substance/preparation and of the company or firm

1.1 Identification of the substance or preparation

Name:

Mixture Cyclohexane/Ethyl Acetate 1:1 v/v

1.2 Use of the substance/preparation:

For laboratory utilisation, analysis, research and fine chemistry.

1.3 Identification of the company or firm:

PANREAC QUIMICA, S.L.U.

C/Garraf, 2

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Tel. (+34) 937 489 400

e-mail: product.safety@panreac.com

Emergencies:

Single telephone number for emergency calls: 112 (EU)

Tel.:(+34) Tel.:(+34) 937 489 499

2. Identification of dangers

Highly flammable. Irritating to eyes and skin. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful: may cause lung damage if swallowed. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

3. Component Composition/Information

Cyclohexane 50%

CAS [110-82-7] Formula: C_6H_{12} M.=84,16

EC number (EINECS): 203-806-2

EC index number: 601-017-00-1

R: 11-38-65-67-50/53

Ethyl Acetate 50%

CAS [141-78-6] Formula: $CH_3COOC_2H_5$ M.=88,10

EC number (EINECS): 205-500-4

EC index number: 607-022-00-5

R: 11-36-66-67

4. First aid

4.1 General indications:

Never provide drink or induce vomiting in the event of loss of consciousness.

4.2 Inhaling:

Take the person out into the fresh air. In the event of suffocation, proceed to provide artificial respiration. Loosen clothing to release respiratory channels.

4.3 Contact with the skin:

Wash with plenty of water. Remove contaminated clothing.

4.4 Eyes:

Wash with plenty of water (for at least 15 minutes), keeping eyelids open. Seek medical assistance.

4.5 Swallowing:

Avoid vomiting. Seek medical assistance. Administer Vaseline oil as a laxative (3 ml/kg).

5. Fire-fighting means

5.1 Suitable fire-extinguishing means:

Dry powder. Foam.

5.2 Fire-fighting means which must NOT be used:

5.3 Special risks:

Flammable. Keep away from sources of ignition. The fumes are heavier than air, so they may spread at floor level. In the event of fire, toxic fumes may form. May form explosive mixtures with the air.

5.4 Protective equipment:

6. Measures to be taken in the event of accidental spillage

6.1 Individual precautions:

Do not inhale the fumes.

6.2 Precautions for care of the environment:

6.3 Methods for collection/cleaning:

Collect up with absorbent materials (Panreac General Absorbent, Kieselguhr, etc.) or, if none available, dry sand or earth, and deposit in waste containers for subsequent elimination in accordance with current legislation.

7. Handling and storage

7.1 Handling:

Avoid the formation of electrostatic charges.

7.2 Storage:

Well sealed containers. In well ventilated premises. Away from light. Protected from air. Away from sources of ignition and heat. Atmospheric temperature.

8. Staff exposure/protection controls

8.1 Technical protective measures:

Ensure good ventilation and renewal of the air in the premises.

8.2 Exposure limit control:

VLA-ED: 300 ppm or 1050 mg/m³ (Cyclohexane)

VLA-EC: 600 ppm or 2100 g/m³ (Cyclohexane)

VLA-ED: 400 ppm or 1460 mg/m³ (Ethyl acetate)

8.3 Respiratory protection:

In the event of fumes forming/aerosols, use suitable respiratory protection. Filter A. Filter P. Filter AX. Filter P₃.

8.4 Hand protection:

Use suitable gloves (neopren, nitrile, PVC).

8.5 Eye protection:

Use suitable goggles.

8.6 Individual hygiene measures:

Remove contaminated clothing. Use complete protective equipment. Wash hands and face before breaks and when the job is done.

8.7 Environmental exposure controls:

Fulfill the commitments under local environmental protection legislation.

The supplier of the protection equipment must specify the type of protection to be worn when handling the substance or preparation, including the type of material and the breakthrough time of the material, with regard to the amount and duration of exposure.

9. Physical and chemical properties

Appearance:

Transparent, colourless liquid.

Odour:

Characteristic.

Density (20/4): 0,832

10. Stability and reactivity

10.1 Conditions which should be avoided:

High temperatures.

10.2 Matter which should be avoided:

Oxidant agents (amongst others: perchloric acid, perchlorates, halogenates, CrO_3 , halogen oxides, nitric acid, nitrogen oxides, non-metal oxides, chromo-sulphuric acid). Halogens. Halogen halides. Non-metals. Non-metal oxyhalides. Oils of turpentine and by-products. Chromyl chloride. Metal chlorides. Nitrates.

10.3 Hazardous decomposition products:

Carbon dioxide.

10.4 Complementary information:

The gases/fumes can form explosive mixtures with the air.

11. Toxicological information

11.1 Acute toxicity:

LD_{50} oral rat: 5620 mg/kg (refers to the component with the highest toxicity)

11.2 Dangerous effects for health:

If swallowed and inhaled: Irritations to the mucosae, euphoria, intoxication, ataxia (motor coordination disorders), loss of consciousness, coma.

Risk of aspiration upon vomiting. The following cannot be ruled out: death.

Prolonged exposure causes constipation, loss of appetite, allergic reaction, dermatitis. Can have a demoiaturizing effect on the skin, with the risk of secondary infection.

Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products.

12. Environmental information

12.1 Mobility:

12.2 Ecotoxicity:

12.1.1 - EC₅₀ test (mg/l):

Bacteria (Photobacterium phosphoreum) = ---- mg/l

Fish = ---- mg/l

12.2.2 - Receptor medium:

Risk for the water environment =

Risk for the land environment =

12.2.3 - Observations:

Ecotoxicity in line with the dumping concentration.

12.3 Degradability:

12.3.1 - Test:-----

12.3.2 - Biotic degradation classification:

BOD₅/COD Biodegradability = High, over 1/3

12.3.3 - Abiotic degradation depending on pH: -----

12.3.4 - Observations:

Biodegradable product.

12.4 Accumulation:

12.4.1 - Test:

12.4.2 - Bioaccumulation:

Risk = -----

12.4.3 - Observations:

Non-bioaccumulable product.

12.5 Other possible effects on the environment:

Non-pollutant product. Highly purifiable.

DATA BASED on the components of the preparation.

13. Considerations regarding elimination

13.1 Substance or preparation:

In the European Union, there are no homogeneous standards established for elimination of chemical waste, which is waste of a special nature, and treatment and elimination of same is subject to the domestic legislation in each country. In view of this, in each case, you should contact the competent authority or those companies legally authorized for elimination of waste.

2001/573/EC: Council Decision of 23 July 2001 amending Commission Decision 2000/532/EC as regards the list of wastes.

Council Directive 91/156/EEC of 18 March 1991 amending Directive 75/442/EEC on waste.

13.2 Contaminated containers:

Contaminated containers and packaging of dangerous substances or preparations must be treated in the same manner as the actual products contained in them.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

14. Information concerning transport

Overland (ADR):

Technical name: LÍQUIDO INFLAMABLE, N.E.P.

ONU 1993 Class: 3 Packaging group: II (D/E)

By sea (IMDG):

Technical name: LÍQUIDO INFLAMABLE, N.E.P.

ONU 1993 Class: 3 Packaging group: II

By air (ICAI-IATA):

Technical name: Líquido inflamable, n.e.p.

ONU 1993 Class: 3 Packaging group: II

Packaging instructions: CAO 307 PAX 305

15. Mandatory information

15.1 Labelling as per REACH

Symbols: 

Danger indications: Highly flammable Irritant Dangerous for the environment

Phrases R: 11-36/38-50/53-65-66-67 Highly flammable. Irritating to eyes and skin.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful: may cause lung damage if swallowed. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

Phrases S: 9-16-26-33-60-61-62 Keep container in a well-ventilated place. Keep away from sources of ignition - No smoking. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Take precautionary measures against static discharges. This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions-safety data sheet. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

16. Other information

Component Information:

Cyclohexane 50%

CAS [110-82-7] C_6H_{12} M.=84,16

203-806-2 601-017-00-1



R: 11-38-65-67-50/53

Highly flammable. Irritating to skin. Harmful: may cause lung damage if swallowed. Vapours may cause drowsiness and dizziness. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Ethyl Acetate 50%

CAS [141-78-6] $CH_3COOC_2H_5$ M.=88,10

205-500-4 607-022-00-5



R: 11-36-66-67

Highly flammable. Irritating to eyes. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

Review number and date: 0 07.06.09

The information included in this Safety Data Sheet is based on our most up-to-date knowledge, and is solely intended to inform regarding aspects of safety; the properties and characteristics indicated herein are not guaranteed.