

Printing date 02.11.2020 Version number 1 Revision: 02.11.2020

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

1.1 Product identifier

Trade name: EP 28 B

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

No further relevant information available. **Application of the substance / the mixture:**

SOLVENT-FREE TWO COMPONENT EPOXY RESIN BASE COAT

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

PENETRON HELLAS S.A. G.E.MH. No: 07278001000

50, THRAKOMAKEDONON AV., 136 79 ACHARNES, GREECE

TEL.: +30 210 2448250 - FAX: + 30 210 2476803 Email: info@penetron.gr Site: www.penetron.gr

1.4 Emergency telephone number:



European Emergency Tel.: 112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation EC No 1272/2008 CLP:



GHS08 health hazard

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS05 corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation EC No 1272/2008 CLP:

The product is classified and labelled according to the CLP regulation.

(Contd. on page 2)

(Contd. of page 1)

Safety data sheet complying with Regulation 1907/2006/EC (REACH Regulation), EU 2015/830 and Regulation No 1272/2008/EC (CLP)

Printing date 02.11.2020 Version number 1 Revision: 02.11.2020

Trade name: EP 28 B

Hazard pictograms:







GHS05 GHS07 GHS08

Signal word: Danger

Hazard-determining components of labelling:

Copolymer of aniline and formaldehyde, hydrogenated

Benzyl alcohol

4,4'-methylenebis(cyclohexylamine)

2,4,6-tris(dimethylaminomethyl)phenol

Hazard statements:

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of reach of children.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves / eye protection / face protection.
P302+P352 IF ON SKIN: Wash with plenty of water and soap.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

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

regulations.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable. **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Description: Mixture of substances listed below with nonhazardous additions.				
Ingredients according Regulation	ngredients according Regulation (EU) 830/2015:			
CAS: 100-51-6 EINECS: 202-859-9 Index number: 603-057-00-5 Reg.nr.: 01-2119492630-38-XXXX	Benzyl alcohol Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	25-50%		
CAS: 135108-88-2	Copolymer of aniline and formaldehyde, hydrogenated STOT RE 2, H373; Skin Corr. 1C, H314; Acute Tox. 4, H302; Skin Sens. 1, H317; Aquatic Chronic 3, H412	25-50%		

(Contd. on page 3)

Printing date 02.11.2020 Version number 1 Revision: 02.11.2020

Trade name: EP 28 B

CAS: 90-72-2 EINECS: 202-013-9 Index number: 603-069-00-0 Reg.nr.: 01-2119560597-27-XXXX	2,4,6-tris(dimethylaminomethyl)phenol Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	Contd. of page 2) 5-10%
CAS: 1761-71-3 EINECS: 217-168-8	4,4'-methylenebis(cyclohexylamine) STOT RE 2, H373; Skin Corr. 1A, H314; Acute Tox. 4, H302; Skin Sens. 1, H317	2.5-<5%

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Take affected persons out into the fresh air.

Seek immediate medical advice.

After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

Seek medical treatment in case of complaints.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eve contact:

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.

Check for and remove any contact lenses.

Continue to rinse for at least 15 minutes.

Get medical attention if irritation occurs.

Avoid strong water jet-risk of cornea damage, consult a doctor.

After swallowing:

Seek immediate medical advice.

Drink small quantities of water and stay in fresh air.

Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

Hazards May cause an allergic skin reaction.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

Carbon dioxide, sand.

Use fire extinguishing methods suitable to surrounding conditions.

Sand or earth

Do not use water.

For safety reasons unsuitable extinguishing agents: Water

(Contd. on page 4)

Printing date 02.11.2020 Version number 1 Revision: 02.11.2020

Trade name: EP 28 B

(Contd. of page 3)

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

5.3 Advice for firefighters

Protective equipment:

Mouth respiratory protective device.

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

Wear protective goggles.

Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Mouth respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

Wear protective clothing.

6.1.1 For non-emergency personnel Avoid contact with dripping or leaking material

6.1.2 For emergency responders

Wear protective equipment. Keep unprotected persons away.

First-aid responders must wear protectice clothing, gloves, goggles and respiratory device with filter type A.

6.2 Environmental precautions:

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).

Use neutralising agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

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

Store in cool, dry place in tightly closed receptacles.

Ensure good ventilation/exhaustion at the workplace

Prevent formation of aerosols.

Information about fire - and explosion protection:





Keep ignition sources away - Do not smoke.

Prevent the creation of electrostatic charges

7.2 Conditions for safe storage, including any incompatibilities

Storage: Store in cool, dry conditions in well sealed receptacles.

Requirements to be met by storerooms and receptacles: Store in a cool location.

Information about storage in one common storage facility: Not required.

Further information about storage conditions:

Keep container tightly sealed.

(Contd. on page 5)

Printing date 02.11.2020 Version number 1 Revision: 02.11.2020

Trade name: EP 28 B

(Contd. of page 4)

Store under lock and key and with access restricted to technical experts or their assistants only.

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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

8.2.1. Appropriate engineering controls Provide adequate ventilation.

Personal protective equipment

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Respiratory protection:

Not necessary if room is well-ventilated.



Use suitable respiratory protective device in case of insufficient ventilation.

Protection of hands:

Use gloves of stable material (e.g. Nitrile) - if necessary tricoted to improve the wearability.



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

Butyl Gloves

Recommended thickness of the material: ≥ 0.7 mm

Nitrile gloves. Thickness: 0,4 mm

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.

Not suitable are gloves made of the following materials: Leather gloves Eye protection:



Tightly sealed goggles (EN 166).

(Contd. on page 6)

Printing date 02.11.2020 Version number 1 Revision: 02.11.2020

Trade name: EP 28 B

Body protection:

(Contd. of page 5)



Protective work clothing



SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form: Liquid
Colour: Yellowish
Odour: Ammonia-like
Odour threshold: Not determined

pH value:

Melting point/freezing point:

Not determined

Not determined

Initial boiling point and boiling range: >200 °C

Flash point: >100 °C

Not Flammable

Ignition temperature: 435 °C

Flammability (solid, gas): Not applicable

Auto-ignition temperature: Product is not selfigniting.

Decomposition temperature: Not determined

Auto-ignition temperature: Product is not selfigniting.

Explosive properties: Product is not explosive. However, formation of explosive air/vapour

mixtures are possible.

Explosion limits:

Lower: 1.3 Vol %
Upper: 13 Vol %
Oxidising properties Not oxidising

Vapour pressure at 20 °C: 0.1 hPa

Density at 20 °C:1.00 g/cm³Relative densityNot determinedVapour densityNot determinedEvaporation rateNot determined

(Contd. on page 7)

Printing date 02.11.2020 Version number 1 Revision: 02.11.2020

Trade name: EP 28 B

(Contd. of page 6)

Solubility in / Miscibility with

Partially soluble water:

Partition coefficient: n-octanol/water: Not determined

Viscosity:

Dynamic at 20 °C: 200-500 mPas **Kinematic:** Not determined

Solvent content:

40.00 % **Organic solvents:**

9.2 Other information No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions

Exothermic polymerisation.

Reacts with acids, alkalis and oxidising agents.

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials No further relevant information available.

10.6 Hazardous decomposition products Irritant gases/vapours

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

	Harmful if swallowed.				
	LD/LC50 values relevant for classification:				
	CAS: 100-51-6 Benzyl alcohol				
	Oral	LD50	1,230 mg/kg (rat)		
	Dermal	LD50	2,000 mg/kg (rabbit)		
	Inhalative	LC50/4h	>4.178 mg/m³ (rat)		
			11 mg/l (ATE)		
CAS: 135108-88-2 Copolymer of aniline and formaldehyde, hydrogenated					
	0 1		TOO # (4 TT)		

500 mg/kg (ATE) Oral LD50

CAS: 90-72-2 2,4,6-tris(dimethylaminomethyl)phenol

2.169 mg/kg (rat) Oral LD50

CAS: 1761-71-3 4,4'-methylenebis(cyclohexylamine)

Oral LD50 >1.000 mg/kg (rat) Dermal LD50 2.110 mg/kg (rabbit)

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eve damage/irritation

Causes serious eye damage.

(Contd. on page 8)

Printing date 02.11.2020 Version number 1 Revision: 02.11.2020

Trade name: EP 28 B

(Contd. of page 7)

Respiratory or skin sensitisation

May cause an allergic skin reaction.

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure

STOT Repeated Exposure Category 2

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Not classified as a risk for aspiration according to paragraphs 3.10.3.3.1.1. & Amp; 3.10.3.3.1.2 of CLP Regulation 1272/2008 / EC. The viscosity of the mixture at 40 ° C is greater than 20.5 mm2 / s.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

CAS: 100-51-6 Benzyl alcohol EC50/72h 770 mg/l (algae)

CAS: 90-72-2 2,4,6-tris(dimethylaminomethyl)phenol

EC50/72h 84 mg/l (Scenedesmus subspicatus)

LC50/96 h 175 mg/l (Cyprimus carpio)

CAS: 1761-71-3 4,4'-methylenebis(cyclohexylamine)

EC50/48 h 9.24 mg/l (Daphnia)

EC50/72h 140-200 mg/l (algae)

LC50/96 h >100 mg/l (Leuciscus idus)

NOEC / 21 Tage 4 mg/l (Daphnia)

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

Ecotoxical effects:

Remark: Harmful to fish

Additional ecological information:

General notes:

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Danger to drinking water if even small quantities leak into the ground.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

GB

Printing date 02.11.2020 Version number 1 Revision: 02.11.2020

Trade name: EP 28 B

(Contd. of page 8)

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation



Dispose according to National Regulations.



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

Contact manufacturer for recycling information.

Uncleaned packaging:

Recommendation:

Disposal must be made according to official regulations.

Packaging may be reused or recycled after cleaning.

SECTION 14: Transport information

14.1 UN-Number

ADR, IMDG, IATA UN1760

14.2 UN proper shipping name

ADR 1760 CORROSIVE LIQUID, N.O.S.

IMDG CORROSIVE LIQUID, N.O.S., MARINE POLLUTANT

IATA CORROSIVE LIQUID, N.O.S.

14.3 Transport hazard class(es)

ADR, IATA



Class 8 Corrosive substances.

Label

IMDG





Class 8 Corrosive substances.

Label 8

14.4 Packing group

ADR, IMDG, IATA

14.5 Environmental hazards:

Marine pollutant: No

Symbol (fish and tree)

14.6 Special precautions for user Warning: Corrosive substances.

Hazard identification number (Kemler code): 80

(Contd. on page 10)

Printing date 02.11.2020 Version number 1 Revision: 02.11.2020

Trade name: EP 28 B

(Contd. of page 9)

EMS Number: F-A,S-B Stowage Category B

Stowage Code SW2 Clear of living quarters.

14.7 Transport in bulk according to Annex II of

Marpol and the IBC Code Not applicable.

Transport/Additional information:

ADR

Limited quantities (LQ) 1L Excepted quantities (EQ) Code: E2

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

Transport category 2
Tunnel restriction code E

IMDG

Limited quantities (LQ) 1L Excepted quantities (EQ) Code: E2

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml LIN 1760 CORROSIVE LIQUID NOS 8 III

UN "Model Regulation": UN 1760 CORROSIVE LIQUID, N.O.S., 8, III

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture REACH Regulation 1907/2006/EC

Regulation (EU) 2015/830

CLP Regulation 1272/2008/EC

Directive 98/24/EC on the protection of health and safety of workers from the risks related to chemicals agents at work.

Council Directive 94/33/EC on the protection of young people at work, as ammended.

Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding, as ammended

Directive 2012/18/EU

Named dangerous substances - ANNEX I Does not contain named substances. REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

National regulations:

Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57

It doesn't contain substances of very high concern (SVHC).

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

GB -

Printing date 02.11.2020 Version number 1 Revision: 02.11.2020

Trade name: EP 28 B

(Contd. of page 10)

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

Training hints

Suitable training on safety in handling, storing and converting the product should be given to the employees based on all the existing information.

Department issuing SDS:



SUSTCHEM S.A.

REACH & Chemical Services Department

A: 144, 3rd Septemyriou, GR 112 51 | Athens, Greece

T: +30 210 8252510 | F: +30 210 8252575 W: www.sustchem.gr | E: info@suschem.gr

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 Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity - oral – Category 4
Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Corr. 1C: Skin corrosion/irritation – Category 1C

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

GE