

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

Printing date 30.01.2018

Version number 1

Revision: 30.01.2018

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name:** EP 652 W Komponente A**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:

Epoxy resin

Epoxy coating

Wall and floor coating

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:**

GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

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

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)

GB

Safety data sheet
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2015/830 and Regulation No 1272/2008/EC (CLP)

Printing date 30.01.2018

Version number 1

Revision: 30.01.2018

Trade name: EP 652 W Komponente A

(Contd. of page 1)

Hazard pictograms:

GHS07 GHS09

Signal word: Warning**Hazard-determining components of labelling:**

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)
 oxirane, mono[(C12-14-alkyloxy)methyl] derivs

Hazard statements:

H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H317 May cause an allergic skin reaction.
 H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P332+P313 If skin irritation occurs: Get medical advice/attention.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information: Contains epoxy constituents. May produce an allergic reaction.**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: consisting of the following components.**Ingredients according Regulation (EU) 830/2015:**

CAS: 25068-38-6 NLP: 500-033-5 Index number: 603-074-00-8 Reg.nr.: 01-2119456619-26-XXXX	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	50-100%
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(Contd. on page 3)

GB

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

Printing date 30.01.2018

Version number 1

Revision: 30.01.2018

Trade name: EP 652 W Komponente A

(Contd. of page 2)

CAS: 68609-97-2
 EINECS: 271-846-8
 Index number: 603-103-00-4
 Reg.nr.: 01-2119485289-22-0000

oxirane, mono[(C12-14-alkyloxy)methyl] derivs
 ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317

10-25%

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

Take affected persons out into the fresh air.
 Seek immediate medical advice.

After inhalation:

Remove the victim into fresh air.
 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.
 In case of skin irritation, consult a physician.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
 Remove contact lenses and continue rinsing for several minutes
 Avoid strong water jet-risk of cornea damage, consult a doctor.

After swallowing: Consult a physician or poison control center.

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

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: CO₂, powder or water spray. Fight larger fire with foam.

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

5.3 Advice for firefighters

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

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:

Wear protective equipment. Keep unprotected persons away.

6.1.2 For emergency responders

First-aid responders must wear protective clothing, gloves, goggles and respiratory device.

6.2 Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

Do not allow to penetrate the ground/soil.

Inform respective authorities in case of seepage into water course or sewage system.

(Contd. on page 4)

GB

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

Printing date 30.01.2018

Version number 1

Revision: 30.01.2018

Trade name: EP 652 W Komponente A

(Contd. of page 3)

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material: (sand, diatomite, acid binders, universal binders and sawdust).

Dispose contaminated material as waste according to item 13.

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**

Ensure good ventilation.

Do not breathe vapor or mist.

Information about fire - and explosion protection: No special measures required.**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:** Prevent any seepage into the ground.**Information about storage in one common storage facility:** Not required.**Further information about storage conditions:** Keep container tightly sealed.**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.

DNELsreaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700), CAS Number: 25068-38-6**Workers**

DNEL: 8.3 mg/kg bw/day, Dermal Exposure, Σύντομη έκθεση, συστημικές επιδράσεις

DNEL: 8.3 mg/kg bw/day, Δερματική επαφή, Μακροχρόνια έκθεση, συστημικές επιδράσεις

DNEL: 12.25 mg/m³, Εισπνοή, Σύντομη έκθεση, συστημικές επιδράσειςDNEL: 12.25 mg/m³, Εισπνοή, Μακροχρόνια έκθεση, συστημικές επιδράσεις**Καταναλωτές**

DNEL: 0.75 mg/kg bw/day, Κατάποση, Σύντομη έκθεση, συστημικές επιδράσεις

DNEL: 0.75 mg/kg bw/day, Κατάποση, Μακροχρόνια έκθεση, συστημικές επιδράσεις

DNEL: 3.6 mg/kg bw/day, Δερματική επαφή, Σύντομη έκθεση, συστημικές επιδράσεις

DNEL: 3.6 mg/kg bw/day, Δερματική επαφή, Μακροχρόνια έκθεση, συστημικές επιδράσεις

DNEL: 0.75 mg/kg bw/day, Εισπνοή, Σύντομη έκθεση, συστημικές επιδράσεις

DNEL: 0.75 mg/kg bw/day, Εισπνοή, Μακροχρόνια έκθεση, συστημικές επιδράσεις

DNEL Workers Acute/short term exposure systemic effectsreaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700), CAS Number: 25068-38-6

8.3 mg/kg bw/day - Dermal Exposure

12.25 mg/m³ - Inhalation Exposure

(Contd. on page 5)

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

Printing date 30.01.2018

Version number 1

Revision: 30.01.2018

Trade name: EP 652 W Komponente A

(Contd. of page 4)

DNEL Workers Long term exposure systemic effects

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700), CAS Number: 25068-38-6

8.3 mg/kg bw/day - Dermal Exposure

12.25 mg/m³ - Inhalation Exposure**DNEL Consumers Acute/Short term exposure systemic effects**

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700), CAS Number: 25068-38-6

0.75 mg/kg bw/day³ - Oral Exposure

3.6 mg/kg bw/day - Dermal Exposure

0.75 mg/kg bw/day - Inhalation Exposure

DNEL Consumers Long-term exposure systemic effects

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700), CAS Number: 25068-38-6

0.75 mg/kg bw/day³ - Oral Exposure

3.6 mg/kg bw/day - Dermal Exposure

0.75 mg/kg bw/day - Inhalation Exposure

8.2 Exposure controls**8.2.1. Appropriate engineering controls**

Take appropriate protective measures with regard to the handling of chemicals and mixtures.

Personal protective equipment**General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Avoid contact with the eyes and skin.

Be sure to clean skin thoroughly after work and before breaks.

Remove contaminated clothing and protective equipment before entering eating areas.

Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Butyl rubber, BR, Nitrile rubber, NBR

(Contd. on page 6)

GB

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

Printing date 30.01.2018

Version number 1

Revision: 30.01.2018

Trade name: EP 652 W Komponente A

(Contd. of page 5)

Penetration time of glove material

The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

Eye protection:

Tightly sealed goggles

Body protection:

Protective work clothing

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties**General Information****Appearance:**

Form:	Paste
Colour:	Various colours
Odour:	Characteristic
Odour threshold:	Not determined

pH value: Not determined

Initial boiling point and boiling range: 201 °C

Flash point: 146 °C

Flammability (solid, gas): Not applicable

Auto-ignition temperature: 455 °C

Decomposition temperature: Not determined

Auto-ignition temperature: Product is not selfigniting.

Explosive properties: Product does not present an explosion hazard.

Explosion limits:

Lower:	Not determined
Upper:	Not determined

Vapour pressure at 23 °C: 0.1 hPa

Density: Not determined

Relative density: Not determined

Vapour density: Not determined

(Contd. on page 7)

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

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Version number 1

Revision: 30.01.2018

Trade name: EP 652 W Komponente A

(Contd. of page 6)

Evaporation rate	Not determined
Solubility in / Miscibility with water:	Not miscible
Partition coefficient: n-octanol/water:	Not determined
Viscosity:	
Dynamic:	Not determined
Kinematic:	Not determined
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity**10.1 Reactivity** Stable under normal conditions**10.2 Chemical stability** Material is stable under normal conditions.**Thermal decomposition / conditions to be avoided** Stable at environment temperature.**10.3 Possibility of hazardous reactions**

Exothermic polymerisation.

Reacts with alcohols, amines, aqueous acids and alkalis.

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** Based on available data, the classification criteria are not met.**LD/LC50 values relevant for classification:**

25068-38-6: reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight < 700)

Oral LD50 >5000 mg/kg (rat)

Dermal LD50 >2000 mg/kg (rabbit)

68609-97-2: oxirane, mono[(C12-14-alkyloxy)methyl] derivs

Dermal LD50 26800 mg/kg (rat)

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

CMR effects (carcinogenicity, 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** Based on available data, the classification criteria are not met.

(Contd. on page 8)

GB

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

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Version number 1

Revision: 30.01.2018

Trade name: EP 652 W Komponente A

(Contd. of page 7)

Aspiration hazard Based on available data, the classification criteria are not met.**SECTION 12: Ecological information****12.1 Toxicity****Aquatic toxicity:**

25068-38-6: reaction product - bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight < 700)

EC50/48 h 1,8 mg/l (Daphnia (Wasserfloh))

EC50/96 h 220 mg/l (Grünalge (Desmodesmus subspicatus))

LC50/96 h 2 mg/l (Leuciscus idus (Goldorfe))

68609-97-2: oxirane, mono[(C12-14-alkyloxy)methyl] derivs

EC50/48 h 6.08 mg/l (Daphnia (Wasserfloh))

LC50/96 h > 5000 mg/l (Leuciscus idus (Goldorfe))

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.**Ecotoxicological effects:****Remark:** Toxic for fish**Additional ecological information:****General notes:**

Also poisonous for fish and plankton in water bodies.

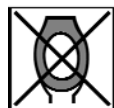
Do not allow product to reach ground water, water course or sewage system.

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

The product contains materials that are harmful to the environment.

12.5 Results of PBT and vPvB assessment**PBT:** Not applicable.**vPvB:** Not applicable.**12.6 Other adverse effects** No further relevant information available.**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.

Waste disposal key:

08 04 09 - waste adhesives and sealants containing organic solvents or other dangerous substances.

(Contd. on page 9)

Safety data sheet
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2015/830 and Regulation No 1272/2008/EC (CLP)

Printing date 30.01.2018

Version number 1

Revision: 30.01.2018

Trade name: EP 652 W Komponente A

(Contd. of page 8)

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**

UN3082

14.2 UN proper shipping name**ADR**3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S. (reaction product: bisphenol-A-
(epichlorhydrin) epoxy resin (number average molecular weight
≤ 700))**IMDG**ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S. (reaction product: bisphenol-A-
(epichlorhydrin) epoxy resin (number average molecular weight
≤ 700)), MARINE POLLUTANT**IATA**ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S. (reaction product: bisphenol-A-
(epichlorhydrin) epoxy resin (number average molecular weight
≤ 700))**14.3 Transport hazard class(es)****ADR, IMDG, IATA****Class**

9 Miscellaneous dangerous substances and articles.

Label

9

14.4 Packing group**ADR, IMDG, IATA**

III

14.5 Environmental hazards:

Environmental Hazardous

Product contains environmentally hazardous substances:
reaction product: bisphenol-A-(epichlorhydrin) epoxy resin
(number average molecular weight ≤ 700)**Marine pollutant:**

Yes

Symbol (fish and tree)

Special marking (ADR):

Symbol (fish and tree)

Special marking (IATA):

Symbol (fish and tree)

14.6 Special precautions for user

Warning: Miscellaneous dangerous substances and articles.

Danger code (Kemler):

90

EMS Number:

F-A,S-F

Stowage Category

A

(Contd. on page 10)

GB

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

Printing date 30.01.2018

Version number 1

Revision: 30.01.2018

Trade name: EP 652 W Komponente A

(Contd. of page 9)

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.

Transport/Additional information:**ADR****Limited quantities (LQ)**

5L

Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

Transport category

3

IMDG**Limited quantities (LQ)**

5L

Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

UN "Model Regulation":

UN 3082 ENVIRONMENTALLY HAZARDOUS
 SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT:
 BISPHENOL-A-(EPICHLORHYDRIN) EPOXY RESIN
 (NUMBER AVERAGE MOLECULAR WEIGHT \leq 700)), 9,
 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** Substance is not listed.**Seveso category** E2 Hazardous to the Aquatic Environment**Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t**Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t**REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3**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).

(Contd. on page 11)

GB

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

Printing date 30.01.2018

Version number 1

Revision: 30.01.2018

Trade name: EP 652 W Komponente A

(Contd. of page 10)

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

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

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H411 Toxic 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:



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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)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (REACH)

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

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

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

Skin Sens. 1: Skin sensitisation – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2