

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.07.2018

Version number 1

Revision: 12.07.2018

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

1.1 Product identifier

Trade name **weberanc epoxy 2K-Hardener**

Safety data sheet no.: XXP014699-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 Construction chemicals

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Saint-Gobain Weber Co., Ltd.

Gypsum Metropolitan Tower 14th Floor 539/2 Si-Ayutthaya Road

Thanonphayathai, Ratchathewi

Bangkok 10400 Thailand

Tel: +662 245 8777

1.4 Emergency telephone number:

Tel. 0 2202 4225-7

Tel. 0 2202 4235-6

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS05 corrosion

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

Eye Dam. 1 H318 Causes serious eye damage.



GHS09 environment

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



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H332 Harmful if inhaled.

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

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

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

(Contd. on page 2)

EUG

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 16.07.2018

Version number 1

Revision: 12.07.2018

Trade name weberanc epoxy 2K-Hardener

(Contd. of page 1)

Hazard pictograms



GHS05 GHS07 GHS09

Signal word Danger

Hazard-determining components of labelling:

Benzyl alcohol
amines, polyethylenepoly-HEPA
m-phenylenebis(methylamine)
4-tert-butylphenol
2,4,6-tris(dimethylaminomethyl)phenol

Hazard statements

H302+H332 Harmful if swallowed or if inhaled.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P273 Avoid release to the environment.
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.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Does not contain PBT substances.
vPvB: Does not contain vPvB substances.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

Description: Mixture of substances listed below with non hazardous additions.

Dangerous components:

CAS: 100-51-6 EINECS: 202-859-9 Index number: 603-057-00-5 Reg.nr.: 2119492630-38-XXXX	Benzyl alcohol ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	10-20%
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(Contd. on page 3)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 16.07.2018

Version number 1

Revision: 12.07.2018

Trade name weberanc epoxy 2K-Hardener

(Contd. of page 2)

CAS: 68131-73-7 EINECS: 268-626-9 Index number: 612-121-00-1	amines, polyethylenepoly-HEPA ⚠ Skin Corr. 1B, H314; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317	10-20%
CAS: 1477-55-0 EINECS: 216-032-5 Reg.nr.: 01-2119480150-50-xxxx	m-phenylenebis(methylamine) ⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317; Aquatic Chronic 3, H412	5-10%
CAS: 98-54-4 EINECS: 202-679-0 Index number: 604-090-00-8 Reg.nr.: 2119489419-21	4-tert-butylphenol ⚠ Repr. 2, H361f; ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315	2-5%
CAS: 90-72-2 EINECS: 202-013-9 Index number: 603-069-00-0 Reg.nr.: 2119560597-27-XXXX	2,4,6-tris(dimethylaminomethyl)phenol ⚠ Skin Corr. 1B, H314; ⚠ Skin Sens. 1, H317; Aquatic Chronic 3, H412	0.1-1%

SVHC Void

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.

Remove the victim immediately from the danger area. If the patient is unwell consult a doctor and present this data sheet.

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.

After skin contact

Immediately wash with water and soap and rinse thoroughly.

Remove contaminated gloves, clothing, footwear or other items and wash thoroughly before re-use.

After eye contact

Rinse opened eye for several minutes under running water. Then consult doctor. Rinse liquid should be tempered (20-30°C).

Protect unharmed eye.

After swallowing

Drink plenty of water and provide fresh air. Call for a doctor immediately.

Rinse out mouth with water. Do not induce vomiting. Seek medical attention and present this data sheet.

4.2 Most important symptoms and effects, both acute and delayed Allergic reactions

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.07.2018

Version number 1

Revision: 12.07.2018

Trade name weberanc epoxy 2K-Hardener

(Contd. of page 3)

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 fires with water spray or alcohol resistant foam.**For safety reasons unsuitable extinguishing agents** Water with full jet**5.2 Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

Carbon monoxide (CO)

Nitrogen oxides (NO_x)**5.3 Advice for firefighters****Protective equipment:** Wear self-contained respiratory protective device.**Additional information**

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

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**

Ensure adequate ventilation.

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:

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

Do not allow to penetrate the ground/soil.

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

6.3 Methods and material for containment and cleaning up:

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

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

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.

EUG

(Contd. on page 5)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 16.07.2018

Version number 1

Revision: 12.07.2018

Trade name weberanc epoxy 2K-Hardener

(Contd. of page 4)

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Keep receptacles tightly sealed.
Use only in well ventilated areas.
Keep away from heat and direct sunlight.

Information about fire - and explosion protection: Keep respiratory protective device available.

7.2 Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and receptacles:

Store only in unopened original receptacles.
Insure sufficient ventilation for storage and work areas.

Information about storage in one common storage facility: Store away from foodstuffs.

Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

DNELs		
CAS: 1477-55-0 m-phenylenebis(methylamine)		
Dermal	Derived No Effect Level	0.33 mg/kgxday (worker systemic long term value)
Inhalative	Derived No Effect Level	1.2 mg/m ³ (worker systemic long term value) 0.2 mg/m ³ (worker local long term value)

Additional information:

The applicable TRGS 900 (MAK list) was used as the basis for the preparation and/or revision of this safety data sheet.

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.
Do not inhale gases / fumes / aerosols.
Do not eat, drink, smoke or sniff while working.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Ensure that washing facilities are available at the work place.
Keep away from foodstuffs, beverages and feed.

(Contd. on page 6)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 16.07.2018

Version number 1

Revision: 12.07.2018

Trade name weberanc epoxy 2K-Hardener

(Contd. of page 5)

Use a moisturising skin cream after processing the product.

Respiratory protection:

Not necessary if room is well-ventilated.

In case of brief exposure or low pollution use respiratory filter device.

In case of intensive or longer exposure use self-contained respiratory protective device.

Use suitable respiratory protective device in case of insufficient ventilation.

Protection of hands: Protective gloves.

Material of gloves Nitrile rubber, NBR

Eye protection: Tightly sealed goggles

Body protection:

Protective work clothing.

Boots

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form:	Pasty
Colour:	Black
Odour:	Amine-like
Odour threshold:	Not determined.

pH-value at 20 °C:	11-11.5
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Change in condition

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	>200 °C

Flash point:	>100 °C
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Flammability (solid, gas):	Not applicable.
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Ignition temperature:	Not determined.
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Decomposition temperature:	Not determined.
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Auto-ignition temperature:	Product is not selfigniting.
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Explosive properties:	Product does not present an explosion hazard.
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Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.

Oxidising properties	Not determined.
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Vapour pressure:	Not determined.
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Density at 20 °C:	1.87 g/cm ³
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Bulk density:	Not applicable.
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(Contd. on page 7)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 16.07.2018

Version number 1

Revision: 12.07.2018

Trade name weberanc epoxy 2K-Hardener

(Contd. of page 6)

Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with Water:	Insoluble
Segregation coefficient (n-octanol/water) log Pow:	Not determined.
Viscosity: dynamic:	Not determined.
kinematic:	Not determined.
Solvent separation test:	Not determined
Solvent content: EU-VOC	20.00 %
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity Not reactive under normal conditions of use

10.2 Chemical stability Stable at recommended storage conditions

Thermal decomposition / Conditions to be avoided:

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Harmful if swallowed or if inhaled.

LD/LC50 values relevant for classification:

Components	Type	Value	Species
CAS: 100-51-6 Benzyl alcohol			
Oral	LD50	1,230 mg/kg	(Rat)
Dermal	LD50	2,000 mg/kg	(Rabbit)
Inhalative	LC50/4 h	11 mg/l	(ATE)
		>4,178 mg/l	(Rat)

(Contd. on page 8)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 16.07.2018

Version number 1

Revision: 12.07.2018

Trade name weberanc epoxy 2K-Hardener

(Contd. of page 7)

CAS: 1477-55-0 m-phenylenebis(methylamine)

Oral	LD50	2,000 mg/kg (Rat)
Dermal	LD50	>3,100 mg/kg (Rabbit)
Inhalative	LC50/4 h	11 mg/l (ATE) 1.34 mg/l (Rat)

CAS: 98-54-4 4-tert-butylphenol

Oral	LD50	2,951 mg/kg (Rat)
Dermal	LD50	2,288 mg/kg (rbt)
Inhalative	LC50/4 h	>5.6 mg/l (Rat)

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

Oral	LD50	1,670 mg/kg (Rat)
Dermal	LD50	1,242 mg/kg (Rabbit)

Primary irritant effect:

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Causes serious eye damage.

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.

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

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: Toxic to aquatic life with long lasting effects (H411)

Type of test Effective concentration Method Assessment

CAS: 100-51-6 Benzyl alcohol

LC50/48h	360 mg/l (Daphnia magna) 645 mg/l (Leuciscus idus (Orfe))
LC50/96h	10 mg/l (Lepomis macrochirus (Sunfish)) 460 mg/l (Pimephales promelas (Minnow))
EC50/24h	400 mg/l (Daphnia magna)
EC50/96h	400 mg/l (Daphnia magna) 640 mg/l (Scenedesmus subspicatus (Algae))

(Contd. on page 9)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 16.07.2018

Version number 1

Revision: 12.07.2018

Trade name weberanc epoxy 2K-Hardener

(Contd. of page 8)

EC50/72h	770 mg/l (Algae)
EC 10	400 mg/l (Pseudomonas putida (Bacteria))

CAS: 1477-55-0 m-phenylenebis(methylamine)

LC50/96h	87.6 mg/l (Oryzias latipes (Japanese medaka))
EC50/48h	15.2 mg/l (Daphnia magna)
EC50/72h	20.3 mg/l (Scenedesmus subspicatus (Algae))

CAS: 98-54-4 4-tert-butylphenol

LC50/96h	5.1 mg/l (Oryzias latipes (Japanese medaka))
EC50/48h	3.4 mg/l (Daphnia magna)
EC50/72h	22.7 mg/l (Selenastrum capricornutum (Green algae))

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

LC50/96h	175 mg/l (Cyprinus Carpio (common carp))
EC50/24h	222 mg/l (Oncorhynchus mykiss (Rainbow trout))

12.2 Persistence and degradability Not easily biodegradable

12.3 Bioaccumulative potential

CAS: 100-51-6 Benzyl alcohol

EBAB	1.1 log Pow (Bioaccumulation)
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Behaviour in environmental systems:

12.4 Mobility in soil No further relevant information available.

Ecotoxic effects:

Remark: The product contains substances which are toxic to fishes and bacteria.

Behaviour in sewage processing plants:

Type of test	Effective concentration Method Assessment
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CAS: 100-51-6 Benzyl alcohol

EC 50 (3h)	79 mg/l (Scenedesmus quadricauda (Algae))
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Additional ecological information:

General notes:

Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

12.5 Results of PBT and vPvB assessment

PBT: Does not contain PBT substances.

vPvB: Does not contain vPvB substances.

12.6 Other adverse effects No further relevant information available.

EUG

(Contd. on page 10)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 16.07.2018

Version number 1

Revision: 12.07.2018

Trade name weberanc epoxy 2K-Hardener

(Contd. of page 9)

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

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

Dispose of the product in accordance with national and local regulations.

European waste catalogue

Possible waste code. The concrete waste code depends on the source of the waste.

Uncleaned packaging:

Recommendation:

Disposal must be made according to official regulations.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information

14.1 UN-Number
ADR, IMDG, IATA

UN2735

14.2 UN proper shipping name
ADR

2735 AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine), 4-tert-butylphenol), ENVIRONMENTALLY HAZARDOUS

IMDG

AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine), 4-tert-butylphenol), MARINE POLLUTANT

IATA

AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine), 4-tert-butylphenol)

14.3 Transport hazard class(es)

ADR



Class
Label

8 (C7) Corrosive substances.
8

(Contd. on page 11)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 16.07.2018

Version number 1

Revision: 12.07.2018

Trade name weberanc epoxy 2K-Hardener

(Contd. of page 10)

IMDG



Class 8 Corrosive substances.
Label 8

IATA



Class 8 Corrosive substances.
Label 8

14.4 Packing group
ADR, IMDG, IATA III

14.5 Environmental hazards: Product contains environmentally hazardous substances: amines, polyethylenepoly-HEPA
Marine pollutant: Symbol (fish and tree)
Special marking (ADR): Symbol (fish and tree)

14.6 Special precautions for user Warning: Corrosive substances.
Danger code (Kemler): 80
EMS Number: F-A,S-B
Segregation groups Alkalis
Stowage Category A
Segregation Code SG35 Stow "separated from" acids.

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
Tunnel restriction code E

IMDG
Limited quantities (LQ) 5L

(Contd. on page 12)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.07.2018

Version number 1

Revision: 12.07.2018

Trade name weberanc epoxy 2K-Hardener

(Contd. of page 11)

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 2735 AMINES, LIQUID, CORROSIVE, N.O.S.
(M-PHENYLENEBIS(METHYLAMINE), 4-TERT-BUTYLPHENOL), 8, III, ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

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

Labelling according to Regulation (EC) No 1272/2008 cf. section 2

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is 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

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

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.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H361f Suspected of damaging fertility.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

Department issuing SDS: Research & Development

(Contd. on page 13)

EUG

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.07.2018

Version number 1

Revision: 12.07.2018

Trade name weberanc epoxy 2K-Hardener

(Contd. of page 12)

Contact:

Mrs. K. Locolas
Tel: 06-32135043

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

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

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)

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 (REACH regulation)

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

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

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

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

Skin Sens. 1: Skin sensitisation – Category 1

Repr. 2: Reproductive toxicity – Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

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

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

*** Data compared to the previous version altered.**

According to Annex II of the REACH regulation, the modified sections in this version of the Safety Data Sheet in comparison with the previous one are marked with asterisks.

EUG

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.07.2018

Version number 1

Revision: 05.07.2018

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

1.1 Product identifier

Trade name **weberanc epoxy 2K-Resin**

Safety data sheet no.: XXP014699-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 Construction chemicals

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Saint-Gobain Weber Co., Ltd.

Gypsum Metropolitan Tower 14th Floor 539/2 Si-Ayutthaya Road

Thanonphayathai, Ratchathewi

Bangkok 10400 Thailand

Tel: +662 245 8777

1.4 Emergency telephone number:

Tel. 0 2202 4225-7

Tel. 0 2202 4235-6

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



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

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

Hazard pictograms



GHS07



GHS09

(Contd. on page 2)

EUG

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 16.07.2018

Version number 1

Revision: 05.07.2018

Trade name weberanc epoxy 2K-Resin

(Contd. of page 1)

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

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P103 Read label before use.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P273 Avoid release to the environment.
- 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.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

EUH205 Contains epoxy constituents. May produce an allergic reaction.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Does not contain PBT substances.

vPvB: Does not contain vPvB substances.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

Description: Mixture of substances listed below with non hazardous additions.

Dangerous components:

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	25-50%
CAS: 68609-97-2 EINECS: 271-846-8 Index number: 603-103-00-4 Reg.nr.: 01-2119485289-22-xxxx	oxirane, mono[(C12-14-alkyloxy)methyl] derivs ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	5-10%

SVHC Void

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.07.2018

Version number 1

Revision: 05.07.2018

Trade name weberanc epoxy 2K-Resin**Additional information** For the wording of the listed hazard phrases refer to section 16.

(Contd. of page 2)

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Immediately remove any clothing soiled by the product.

Remove the victim immediately from the danger area. If the patient is unwell consult a doctor and present this data sheet.

Take affected persons out into the fresh air.

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.

After skin contact Immediately wash with water and soap and rinse thoroughly.

After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. Rinse liquid should be tempered (20-30°C).

After swallowing

If symptoms persist consult a doctor.

Rinse out mouth with water. Do not induce vomiting. Seek medical attention and present this data sheet.

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 fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents Water with full jet

5.2 Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

Carbon monoxide (CO)

Nitrogen oxides (NO_x)

5.3 Advice for firefighters

Protective equipment: Wear self-contained respiratory protective device.

Additional information

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

(Contd. on page 4)

EUG

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.07.2018

Version number 1

Revision: 05.07.2018

Trade name weberanc epoxy 2K-Resin

(Contd. of page 3)

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.
Ensure adequate ventilation.

6.2 Environmental precautions:

The product must not get into watercourses
or into the soil.

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

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

6.3 Methods and material for containment and cleaning up:

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

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

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

Keep receptacles tightly sealed.

Keep away from heat and direct sunlight.

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: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and receptacles:

Store only in unopened original receptacles.

Store in a cool location.

Insure sufficient ventilation for storage and work areas.

Information about storage in one common storage facility: Store away from foodstuffs.

Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

(Contd. on page 5)

EUG

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 16.07.2018

Version number 1

Revision: 05.07.2018

Trade name weberanc epoxy 2K-Resin

7.3 Specific end use(s) No further relevant information available.

(Contd. of page 4)

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

DNELs		
CAS: 25068-38-6 Reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight ≤ 700)		
Oral	Derived No Effect Level	0.75 mg/kgxday (consumer systemic long term value) 0.75 mg/kgxday (consumer systemic short term value)
Dermal	Derived No Effect Level	8.33 mg/kgxday (worker systemic long term value) 8.33 mg/kgxday (worker systemic short term value) 3.571 mg/kgxday (consumer systemic long term value) 3.571 mg/kgxday (consumer systemic short term value)
Inhalative	Derived No Effect Level	12.3 mg/m ³ (worker systemic long term value) 12.3 mg/m ³ (worker systemic short term value)
CAS: 68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs		
Oral	Derived No Effect Level	0.5 mg/kgxday (consumer systemic long term value)
Dermal	Derived No Effect Level	1 mg/kgxday (worker systemic long term value) 0.5 mg/kgxday (consumer systemic long term value)
Inhalative	Derived No Effect Level	3.6 mg/m ³ (worker systemic long term value) 0.87 mg/m ³ (consumer systemic long term value)

Additional information:

The applicable TRGS 900 (MAK list) was used as the basis for the preparation and/or revision of this safety data sheet.

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

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.

Use a moisturising skin cream after processing the product.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device.

In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands: Protective gloves.

(Contd. on page 6)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 16.07.2018

Version number 1

Revision: 05.07.2018

Trade name weberanc epoxy 2K-Resin

(Contd. of page 5)

Material of gloves

Nitrile rubber, NBR

Neoprene gloves

Eye protection: Safety glasses.

Body protection: Protective work clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form:	Pasty
Colour:	Light grey
Odour:	Amine-like
Odour threshold:	Not determined.

pH-value: 7.1-7.6

Change in condition

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	>200 °C

Flash point: >100 °C

Flammability (solid, gas): Not applicable.

Ignition temperature: Not determined.

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.

Oxidising properties Not determined.

Vapour pressure at 20 °C: <0.1 hPa

Density at 20 °C: 1.7 g/cm³

Bulk density:	Not applicable.
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.

Solubility in / Miscibility with Water: Insoluble

(Contd. on page 7)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 16.07.2018

Version number 1

Revision: 05.07.2018

Trade name weberanc epoxy 2K-Resin

(Contd. of page 6)

Segregation coefficient (n-octanol/water) log

Pow: Not determined.

Viscosity:

dynamic: Not determined.

kinematic: Not determined.

Solvent separation test:

Not determined

Solvent content:

EU-VOC 0.00 %

Solids content: 0.0 %

9.2 Other information

No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity Not reactive under normal conditions of use

10.2 Chemical stability Stable at recommended storage conditions

Thermal decomposition / Conditions to be avoided:

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

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:

Components	Type	Value	Species
CAS: 25068-38-6 Reaction product: bisphenol-A-(epichlorhydrin),epoxy resin (number average molecular weight ≤ 700)			
Oral	LD50	>5,000 mg/kg	(Rat)
Dermal	LD50	>2,000 mg/kg	(Rabbit)
CAS: 68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs			
Dermal	LD50	26,800 mg/kg	(Rat)

Primary irritant effect:

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

(Contd. on page 8)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 16.07.2018

Version number 1

Revision: 05.07.2018

Trade name weberanc epoxy 2K-Resin

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

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

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: Toxic to aquatic life with long lasting effects (H411)

Type of test	Effective concentration	Method	Assessment
CAS: 25068-38-6 Reaction product: bisphenol-A-(epichlorhydrin),epoxy resin (number average molecular weight ≤ 700)			
LC50/96h	2 mg/l	(Leuciscus idus (Orfe))	
	1.3 mg/l	(Fish)	
EC50/24h	4.6 mg/l	(Daphnia magna)	
EC50/48h	1.8 mg/l	(Daphnia magna)	
EC50/96h	220 mg/l	(Selenastrum capricornutum (Green algae))	
NOEC (21d)	0.3 mg/l	(Daphnia magna)	
CAS: 68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs			
LC50/96h	>5,000 mg/l	(Leuciscus idus (Orfe))	
EC50/48h	6.08 mg/l	(Daphnia magna)	
NOEC (72h)	500 mg/l	(Algae)	

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

Behaviour in environmental systems:

12.4 Mobility in soil No further relevant information available.

Ecotoxicological effects:

Remark:

The product contains substances which are toxic to fishes and bacteria.

Toxic for fish

Additional ecological information:

General notes:

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

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

(Contd. on page 9)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 16.07.2018

Version number 1

Revision: 05.07.2018

Trade name weberanc epoxy 2K-Resin

(Contd. of page 8)

12.5 Results of PBT and vPvB assessment

PBT: Does not contain PBT substances.

vPvB: Does not contain vPvB substances.

12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

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

Dispose of the product in accordance with national and local regulations.

European waste catalogue

Possible waste code. The concrete waste code depends on the source of the waste.

Uncleaned packaging:

Recommendation:

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

Disposal must be made according to official regulations.

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. (Epoxy Resin, EPOXY RESIN)

IMDG

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Resin, EPOXY RESIN), MARINE POLLUTANT

IATA

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Resin, EPOXY RESIN)

14.3 Transport hazard class(es)

ADR



Class

9 (M6) Miscellaneous dangerous substances and articles.

(Contd. on page 10)

Safety data sheet
according to 1907/2006/EC, Article 31


Printing date 16.07.2018

Version number 1

Revision: 05.07.2018

Trade name weberanc epoxy 2K-Resin

(Contd. of page 9)

Label	9
IMDG, IATA	
	
Class	9 Miscellaneous dangerous substances and articles.
Label	9
14.4 Packing group ADR, IMDG, IATA	III
14.5 Environmental hazards:	Product contains environmentally hazardous substances: Epoxy Resin
Marine pollutant:	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
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. (EPOXY RESIN, EPOXY RESIN), 9, III

EUG

(Contd. on page 11)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.07.2018

Version number 1

Revision: 05.07.2018

Trade name weberanc epoxy 2K-Resin

(Contd. of page 10)

SECTION 15: Regulatory information

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

Labelling according to Regulation (EC) No 1272/2008 cf. section 2**Directive 2012/18/EU****Named dangerous substances - ANNEX I** None of the ingredients is 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**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.

Department issuing SDS: Research & Development**Contact:**

Mrs. K. Locolas

Tel: 06-32135043

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

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

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)

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 (REACH regulation)

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

(Contd. on page 12)

EUG

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 16.07.2018

Version number 1

Revision: 05.07.2018

Trade name weberanc epoxy 2K-Resin

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

(Contd. of page 11)

*** Data compared to the previous version altered.**

According to Annex II of the REACH regulation, the modified sections in this version of the Safety Data Sheet in comparison with the previous one are marked with asterisks.

EUG