

## 1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name:** Kossan Epoxy Filler Part A
- **Article number:** KF-A
- **Application of the substance / the preparation** Epoxy Sealer
- **Manufacturer/Supplier:**  
KOSSAN PAINT (M) SDN. BHD.  
1, Jalan Koporat 1/KU 9, Taman Perindustrian Meru  
42200 Kapar, Selangor D.E. Malaysia.
- **Further information obtainable from:**  
Product safety department.  
lskheong@kop.com.my
- **Information in case of emergency:** Manufacturer/supplier

## 2 Hazards identification

- **Hazard description:**



T Toxic  
N Dangerous for the environment

- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 60 May impair fertility.

R 61 May cause harm to the unborn child.

R 36/38 Irritating to eyes and skin.

R 43 May cause sensitisation by skin contact.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 68 Possible risk of irreversible effects.

Contains epoxy constituents. May produce an allergic reaction.

- **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- **GHS label elements**



**Danger**

H360 - May damage fertility or the unborn child.

H341 - Suspected of causing genetic defects.



**Warning**

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.

Contains epoxy constituents. May produce an allergic reaction.

- **Prevention:**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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P280 Wear protective gloves/protective clothing/eye protection/face protection.

· **Response:**

P305+P351+P338 **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321 Specific treatment (see on this label).

· **Storage:**

P405 Store locked up.

· **Disposal:**



















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

### 3 Composition/information on ingredients

· **Chemical characterization**

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 25068-38-6 NLP: 500-033-5	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight $\leq$ 700)  Xi; R 36/38-43 Warning:  3.2/2, 3.3/2, 3.4.S/1  4.1.C/2	25-50%
CAS: 8002-09-3	Pine Oil  Xi; R 36/37/38 Warning:  3.2/2, 3.3/2, 3.8/3	$\leq$ 2.5%
CAS: 108-95-2 EINECS: 203-632-7	phenol  T,  C; R 23/24/25-34-48/20/21/22-68 Danger:  3.1.O/3, 3.1.D/3, 3.1.I/3;  3.2/1B Warning:  3.5/2, 3.9/2	$\leq$ 2.5%
CAS: 110-80-5 EINECS: 203-804-1	2-ethoxyethanol  T; R 60-61-10-20/21/22 Danger:  3.7/1B Warning:  2.6/3;  3.1.O/4, 3.1.D/4, 3.1.I/4	$\leq$ 2.5%
CAS: 1330-20-7 EINECS: 215-535-7	xylene  Xn,  Xi; R 10-20/21-38 Warning:  2.6/3;  3.1.D/4, 3.1.I/4, 3.2/2	$\leq$ 2.5%

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

### 4 First aid measures

· **General information:** No special measures required.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **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.

· **After swallowing:** If symptoms persist consult doctor.

### 5 Fire-fighting measures

· **Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **Protective equipment:** No special measures required.

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## 6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:**  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.
- **Measures for cleaning/collecting:** Dispose contaminated material as waste according to item 13.

## 7 Handling and storage

- **Handling:**
- **Information for safe handling:**  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.
- **Information about fire - and explosion protection:** Keep respiratory protective device available.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.

## 8 Exposure controls/personal protection

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

- **Ingredients with limit values that require monitoring at the workplace:**

Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)

NON-METALLIC HYDRATED MAGNESIUM SILICATE MINERAL, (3MGO.4SIO2.H2O) (10-25%)

WEL Long-term value: 1 mg/m<sup>3</sup>

13463-67-7 titanium dioxide (2.5-10%)

WEL Long-term value: 10\* 4\*\* mg/m<sup>3</sup>  
\*total inhalable \*\*respirable

108-95-2 phenol (≤2.5%)

WEL Long-term value: 2 ppm  
Sk

110-80-5 2-ethoxyethanol (≤2.5%)

WEL Long-term value: 37 mg/m<sup>3</sup>, 10 ppm  
Sk

1330-20-7 xylene (≤2.5%)

WEL Short-term value: 441 mg/m<sup>3</sup>, 100 ppm  
Long-term value: 220 mg/m<sup>3</sup>, 50 ppm  
Sk; BMGV

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

- **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.  
Store protective clothing separately.  
Avoid contact with the eyes and skin.
- **Respiratory protection:** Not required.

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· **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 preparation 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.

· **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.

· **Eye protection:**



Tightly sealed goggles

## 9 Physical and chemical properties

· **General Information**

<b>Form:</b>	Paste Form
<b>Colour:</b>	According to product specification
<b>Odour:</b>	Characteristic

· **Change in condition**

**Melting point/Melting range:** Undetermined.

**Boiling point/Boiling range:** 185°C

· **Flash point:** 76°C

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Density at 20°C:** 1.52 g/cm<sup>3</sup>

· **Solubility in / Miscibility with water:** Insoluble.

· **Solvent content:**

<b>Organic solvents:</b>	4.9 %
<b>Water:</b>	0.2 %
<b>VOC (EC)</b>	0.00 %

· **Solids content:** 93.1 %

## 10 Stability and reactivity

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

· **Dangerous reactions** No dangerous reactions known.

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· **Dangerous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

· **Acute toxicity:**· **LD/LC50 values relevant for classification:**

### 108-95-2 phenol

Oral	LD50	317 mg/kg (rat)
Dermal	LD50	850 mg/kg (rabbit)

### 110-80-5 2-ethoxyethanol

Oral	LD50	3000 mg/kg (rat)
Dermal	LD50	3300 mg/kg (rabbit)
Inhalative	LC50/4 h	2000 mg/l (rat)

· **Primary irritant effect:**· **on the skin:** Irritant to skin and mucous membranes.· **on the eye:** Irritating effect.· **Sensitization:** Sensitization possible through skin contact.· **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

## 12 Ecological information

· **Ecotoxicological effects:**· **Remark:** Toxic for fish· **General notes:**

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

## 13 Disposal considerations

· **Product:**· **Recommendation**

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

· **Uncleaned packaging:**· **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

· **Land transport ADR/RID (cross-border)**· **ADR/RID class:** 3 Flammable liquids.· **UN-Number:** 1263· **Packaging group:** III· **Hazard label:** 3· **Special marking:** Symbol (fish and tree)

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· **Description of goods:** *Paint*· **Maritime transport IMDG:**

- **IMDG Class:** 3
- **UN Number:** 1263
- **Label** 3
- **Packaging group:** III
- **Marine pollutant:** No
- **Proper shipping name:** *Paint*

· **Air transport ICAO-TI and IATA-DGR:**

- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1263
- **Label** 3
- **Special marking:** *Symbol (fish and tree)*
- **Packaging group:** III
- **Proper shipping name:** *Paint*

· **UN "Model Regulation":** *UN1263, Paint, 3, III*

## 15 Regulatory information

· **Labelling according to EU guidelines:***Observe the general safety regulations when handling chemicals.**The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.*· **Code letter and hazard designation of product:**

*T Toxic*  
*N Dangerous for the environment*

· **Hazard-determining components of labelling:**

*reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number averagemolecular weight  $\leq 700$ )*  
*phenol*  
*2-ethoxyethanol*

· **Risk phrases:**

- 60 May impair fertility.*
- 61 May cause harm to the unborn child.*
- 36/38 Irritating to eyes and skin.*
- 43 May cause sensitisation by skin contact.*
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*
- 68 Possible risk of irreversible effects.*

· **Safety phrases:**

- 53 Avoid exposure - obtain special instructions before use.*
- 1/2 Keep locked up and out of the reach of children.*

· **Special labelling of certain preparations:** *Contains epoxy constituents. May produce an allergic reaction.*

## 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.*

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· **Relevant R-phrases**

- 10            *Flammable.*
- 20/21        *Harmful by inhalation and in contact with skin.*
- 20/21/22    *Harmful by inhalation, in contact with skin and if swallowed.*
- 23/24/25    *Toxic by inhalation, in contact with skin and if swallowed.*
- 34            *Causes burns.*
- 36/37/38    *Irritating to eyes, respiratory system and skin.*
- 36/38        *Irritating to eyes and skin.*
- 38            *Irritating to skin.*
- 43            *May cause sensitisation by skin contact.*
- 48/20/21/22 *Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.*
- 60            *May impair fertility.*
- 61            *May cause harm to the unborn child.*
- 68            *Possible risk of irreversible effects.*

· **Department issuing MSDS: Product safety department.**

· **Contact: Mr. S.K. Lim**

· **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)*

*RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)*

*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 Organization*

*ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)*

*GHS: Globally Harmonized System of Classification and Labelling of Chemicals*

*VOC: Volatile Organic Compounds (USA, EU)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

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

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