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

- · Product details
- · Trade name: Kossan Epoxy Filler Part B
- · Article number: KF-B
- · Application of the substance / the preparation Epoxy sealing
- 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:



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· 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 21/22 Also harmful in contact with skin and if swallowed.
- R 34 Causes burns.
- *R* 43 *May cause sensitisation by skin contact.*
- *R* 48/20 Also harmful: danger of serious damage to health by prolonged exposure through inhalation.
- *R* 63 *Possible risk of harm to the unborn child.*
- · Classification system:

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

GHS label elements



H360 - May damage fertility or the unborn child. H373 - May cause damage to organs through prolonged or repeated exposure.



H314 - Causes severe skin burns and eye damage.

Warning

H302 - Harmful if swallowed.
H317 - May cause an allergic skin reaction.
Prevention:
P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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· Response:

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

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 or doctor/physician.

· 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:
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Epoxy resin	10-25%
	10-25%
🛋 C, 🗙 Xn; R 21/22-34-43	
Danger: 🔶 3.2/1B	
Warning: 🚸 3.1.0/4, 3.1.D/4, 3.4.S/1	
toluene	10-25%
🗙 Xn, 🗙 Xi, 🔥 F; R 11-38-48/20-63-65-67	
Warning: 🚯 3.2/2, 3.8/3	
2-ethoxyethanol	2.5-10%
Danger: 🚸 3.7/1B	
Warning: 🚸 2.6/3; 🐠 3.1.0/4, 3.1.D/4, 3.1.I/4	
xylene	2.5-10%
🗙 Xn, 🗙 Xi; R 10-20/21-38	
Warning: 🚸 2.6/3; 🚸 3.1.D/4, 3.1.I/4, 3.2/2	
butanol	2.5-10%
🗙 Xi; R 10-37/38-41-67	
Danger: 🕎 3.3/1	
	≤ 2.5%
😹 T, 💶 C; R 23/24/25-34-48/20/21/22-68	
Warning: 🚯 3.5/2, 3.9/2	
	$X_i$ ; R 36/38-43         Warning: $3.2/2$ , $3.3/2$ , $3.4.S/1$ $2,2'$ -iminodiethylamine $C$ , $X_n$ ; R 21/22-34-43         Danger: $3.2/1B$ Warning: $3.1.O/4$ , $3.1.D/4$ , $3.4.S/1$ toluene $X_n$ , $X_i$ , $F$ ; R 11-38-48/20-63-65-67         Danger: $2.6/2$ ; $3.10/1$ , $3.7/2$ , $3.9/2$ Warning: $3.2/2$ , $3.8/3$ 2-ethoxyethanol $T$ ; R 60-61-10-20/21/22         Danger: $3.7/1B$ Warning: $2.6/3$ ; $3.1.0/4$ , $3.1.D/4$ , $3.1.1/4$ xylene $X_i$ ; R 10-20/21-38         Warning: $2.6/3$ ; $3.1.D/4$ , $3.1.1/4$ , $3.2/2$ butanol $X_i$ ; R 10-37/38-41-67         Danger: $3.3/1$ Warning: $2.6/3$ ; $3.8/3$ ; $3.2/2$ phenol $Z_i$ , $Z_i = C$ ; R 23/24/25-34-48/20/21/22-68         Danger: $3.1.0/3$ , $3.1.D/3$ , $3.1.1/3$ ; $3.2/1B$

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

## 4 First aid measures

• General information:

Immediately remove any clothing soiled by the product. 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. Then consult a doctor.

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#### · After swallowing:

If symptoms persist consult doctor.

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

#### **5** Fire-fighting measures

· Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· Protective equipment: No special measures required.

#### **6** Accidental release measures

- · Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.
- 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:

Use neutralizing agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

#### 7 Handling and storage

#### · Handling:

#### · Information for safe handling:

Thorough dedusting.

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 (Mg3H2(SiO3)4)

NON-METALLIC HYDRATED MAGNESIUM SILICATE MINERAL, (3MGO.4SIO2.H2O) (25-50%)

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

111-40-0 2,2'-iminodiethylamine (10-25%)

WEL Long-term value: 4.3 mg/m<sup>3</sup>, 1 ppm Sk

108-88-3 toluene (10-25%)

WEL Short-term value: 384 mg/m<sup>3</sup>, 100 ppm Long-term value: 191 mg/m<sup>3</sup>, 50 ppm Sk

110-80-5 2-ethoxyethanol (2.5-10%)

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

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1330-20-7 xylene (2.5-10%)
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
78-83-1 butanol (2.5-10%)
WEL Short-term value: 231 mg/m <sup>3</sup> , 75 ppm
Long-term value: 154 mg/m <sup>3</sup> , 50 ppm
$108-95-2 \ phenol \ (\leq 2.5\%)$
WEL Long-term value: 2 ppm
Sk
• 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 brocks and at the and of work
Wash hands before breaks and at the end of work. Store protective clothing separately.
Avoid contact with the eyes and skin.
· 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
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 severa 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 trough time has to be found out by the manufacturer of the protective gloves and has to be
observed.
· Eye protection:
Tightly sealed goggles
0 Dhusical and shewiosl monenties
9 Physical and chemical properties
· General Information

Form:Paste FormColour:According to product specificationOdour:Characteristic	· General Information	
Caour: Characteristic		

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<ul> <li>Change in condition</li> <li>Melting point/Melting range</li> <li>Boiling point/Boiling range:</li> </ul>	
· Flash point:	40°C
· Ignition temperature:	235°C
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits: Lower: Upper:	1.0 Vol % 10.0 Vol %
· Vapour pressure at 20°C:	29 hPa
· Density at 20°C:	1.2 g/cm <sup>3</sup>
· Solubility in / Miscibility with water:	Insoluble.
· Solvent content: Organic solvents: VOC (EC)	14.0 % 0.00 %
· Solids content:	86.0 %

# 10 Stability and reactivity

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

- · Dangerous reactions No dangerous reactions known.
- · Dangerous decomposition products: No dangerous decomposition products known.

## **11 Toxicological information**

· Acute toxicity:

· LD/LC50	· LD/LC50 values relevant for classification:	
111-40-0 2	111-40-0 2,2'-iminodiethylamine	
Oral	LD50	1080 mg/kg (rat)
Dermal	LD50	1090 mg/kg (rabbit)
108-88-3 t	oluene	
Oral	LD50	5000 mg/kg (rat)
Dermal	LD50	12124 mg/kg (rabbit)
Inhalative	LC50/4 h	5320 mg/l (mouse)
110-80-5 2	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)
1330-20-7 xylene		
Oral	LD50	4300 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)
• Primary irritant effect: • on the skin: Caustic effect on skin and mucous membranes.		

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• on the eye: Strong caustic 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:

Harmful Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

#### **12 Ecological information**

· General notes: Must not reach sewage water or drainage ditch undiluted or unneutralized.

## 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.

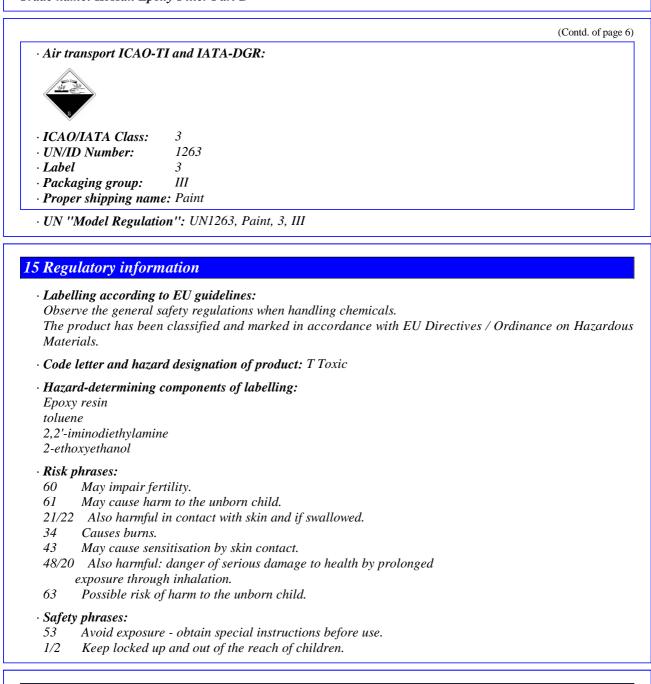
# 14 Transport information

and the state of t	RID (cross-border)	
• ADR/RID class:	3 Flammable liquids.	
· UN-Number:	1263	
· Packaging group:	III	
· Hazard label:	3	
Description of goods:     Maritime transport II		
• Maritime transport II	MDG:	
• Maritime transport II	MDG: 3 1263 3	
<ul> <li>Maritime transport II</li> <li>IMDG Class:</li> <li>UN Number:</li> <li>Label</li> <li>Packaging group:</li> </ul>	MDG: 1263 3 III	
<ul> <li>Maritime transport II</li> <li>Maritime transport II</li> <li>IMDG Class:</li> <li>UN Number:</li> <li>Label</li> <li>Packaging group:</li> <li>EMS Number:</li> </ul>	MDG: 3 1263 3	
<ul> <li>Maritime transport II</li> <li>IMDG Class:</li> <li>UN Number:</li> <li>Label</li> <li>Packaging group:</li> </ul>	MDG: 1263 3 III F-A,S-B No	

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### **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 R-phrases

10 Flammable.	
11 Highly flammable.	
20/21 Harmful by inhalation and in contact with skin.	
20/21/22 Harmful by inhalation, in contact with skin and if swallowed.	
21/22 Harmful in contact with skin and if swallowed.	
23/24/25 Toxic by inhalation, in contact with skin and if swallowed.	
34 Causes burns.	
36/38 Irritating to eyes and skin.	
37/38 Irritating to respiratory system and skin.	
38 Irritating to skin.	
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41	Risk of serious damage to eyes.	
43	May cause sensitisation by skin contact.	
48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.	
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.	
63	Possible risk of harm to the unborn child.	
65	Harmful: may cause lung damage if swallowed.	
67	Vapours may cause drowsiness and dizziness.	
68	Possible risk of irreversible effects.	
ADR: Accor Carriage of RID: Règler Internationa IMDG: Inter IATA: Inter IATA-DGR: ICAO: Inter ICAO: TI: Te GHS: Globa VOC: Volati LC50: Letha	tions and acronyms: rd européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Dangerous Goods by Road) nent international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the al Transport of Dangerous Goods by Rail) rnational Maritime Code for Dangerous Goods national Air Transport Association Dangerous Goods Regulations by the "International Air Transport Association" (IATA) national Civil Aviation Organization echnical Instructions by the "International Civil Aviation Organization" (ICAO) ully Harmonized System of Classification and Labelling of Chemicals ile Organic Compounds (USA, EU) al concentration, 50 percent al dose, 50 percent	
• * Data compared to the previous version altered.		
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