

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

1.1 Product identifier
   · Trade name: Transpoxy Glascote
   · Article number: 440 B

1.2 Relevant identified uses of the substance or mixture and uses advised against
   No further relevant information available.

1.3 Details of the supplier of the safety data sheet
   · Manufacturer/Supplier:
     KOSSAN PAINT (M) SDN. BHD.
     1,Jalan Koporat 1/KU9, Taman Perindustrian Meru, 42200 Kapar, Selangor Darul Ehsan, Malaysia.

   · Further information obtainable from:
     Product safety department.
     lsheong@kossanpaint.com.my

1.4 Emergency telephone number:
   · Manufacturer/supplier
     603-33922799

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
   · Classification according to Regulation (EC) No 1272/2008

   GHS08 health hazard
   Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
   Muta. 2 H341 Suspected of causing genetic defects.

   GHS05 corrosion
   Skin Corr. 1B H314 Causes severe skin burns and eye damage.
   Eye Dam. 1 H318 Causes serious eye damage.

   GHS07
   Acute Tox. 4 H332 Harmful if inhaled.
   Skin Sens. 1 H317 May cause an allergic skin reaction.

   · Classification according to Directive 67/548/EEC or Directive 1999/45/EC Not applicable.
   · Hazard description: C Corrosive

(Contd. on page 2)
Trade name: Transpoxy Glascote

- 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 34    Causes burns.
   R 42/43 May cause sensitisation by inhalation and skin contact.
   R 68    Possible risk of irreversible effects.
- Classification system:
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- 2.2 Label elements
- Labelling according to EU guidelines:
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- Code letter and hazard designation of product: C Corrosive
- Hazard-determining components of labelling:
   Benzyl alcohol
   phenol
   ethylenediamine
- Risk phrases:
   34    Causes burns.
   42/43 May cause sensitisation by inhalation and skin contact.
   68    Possible risk of irreversible effects.
- Safety phrases:
   1/2    Keep locked up and out of the reach of children.
   22    Do not breathe dust.

- 2.3 Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- 3.2 Chemical characterisation: Mixtures
- Description: Mixture of substances listed below with nonhazardous additions.

- Dangerous components:

| CAS: 1477-55-0 | m-phenylenebis(methyamine) | C R34; Xn R22 | Skin Corr. 1B, H314; Acute Tox. 4, H302; Acute Tox. 4, H332 | 2,5-10% |
| CAS: 100-51-6 | Benzyl alcohol | Xn R20/22; Xi R43 | Acute Tox. 4, H302; Acute Tox. 4, H332 | 2,5-10% |
| CAS: 107-15-3 | ethylenediamine | C R34; Xn R21/22; Xn R42/43 | ≤ 2,5% | Flam. Liq. 3, H226; Resp. Sens. 1, H334; Skin Corr. 1B, H314; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317 |
Trade name: Transpoxy Glascote

CAS: 108-95-2
EINECS: 203-632-7

phenol

≤ 2,5%

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: Immediately remove any clothing soiled by the product.

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. Then consult a doctor.

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

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: Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixture

No further relevant information available.

5.3 Advice for firefighters

Protective equipment: No special measures required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralising agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

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/exhaustion at the workplace.

Information about fire - and explosion protection: No special measures required.
Trade name: Transpoxy Glascoat

7.2 Conditions for safe storage, including any incompatibilities
- 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.

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:

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Limit values</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-95-2 phenol (≤2.5%)</td>
<td></td>
</tr>
<tr>
<td>WEL</td>
<td>Short-term value: 16 mg/m³, 4 ppm</td>
</tr>
<tr>
<td>Long-term value: 7.8 mg/m³, 2 ppm</td>
<td></td>
</tr>
</tbody>
</table>

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

8.2 Exposure controls
- Personal protective equipment:
  - General protective and hygienic measures:
    - Keep away from foodstuffs, beverages and feed.
    - Immediately remove all soiled and contaminated clothing
    - Wash hands before breaks and at the end of work.
    - Avoid contact with the eyes and skin.
  - Respiratory protection:
    - 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 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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 5)
### SECTION 9: Physical and chemical properties

| · 9.1 Information on basic physical and chemical properties |
| · General Information |
| · Appearance: |
| · Form: | Fluid |
| · Colour: | Wide Colour Range |
| · Odour: | Characteristic |
| · Odour threshold: | Not determined. |
| · pH-value: | Not determined. |
| · Change in condition |
| · Melting point/Melting range: | Undetermined. |
| · Boiling point/Boiling range: | 181 °C |
| · Flash point: | 138 °C |
| · Flammability (solid, gaseous): | Not applicable. |
| · Ignition temperature: |
| · Decomposition temperature: | Not determined. |
| · Self-igniting: | Product is not selfigniting. |
| · Danger of explosion: | Product does not present an explosion hazard. |
| · Explosion limits: |
| · Lower: | Not determined. |
| · Upper: | Not determined. |
| · Vapour pressure: | Not determined. |
| · Density: | Not determined. |
| · Relative density | Not determined. |
| · Vapour density | Not determined. |
| · Evaporation rate | Not determined. |
| · Solubility in / Miscibility with water: | Not miscible or difficult to mix. |
| · Partition coefficient (n-octanol/water): | Not determined. |
| · Viscosity: |
| · Dynamic: | Not determined. |
| · Kinematic: | Not determined. |
| · Solvent content: |
| · Organic solvents: | 7.0 % |
| · VOC (EC): | 6.95 % |
| · Solids content: | 100.0 % |
SECTION 10: Stability and reactivity

- 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability
  - 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 inhaled.
  - LD/LC50 values relevant for classification:

<table>
<thead>
<tr>
<th>107-15-3 ethylenediamine</th>
<th>Oral</th>
<th>LD50</th>
<th>500 mg/kg (rat)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Dermal</td>
<td>LD50</td>
<td>730 mg/kg (rabbit)</td>
</tr>
<tr>
<td></td>
<td>Inhalative</td>
<td>LC50/4 h</td>
<td>0.3 mg/l (mouse)</td>
</tr>
<tr>
<td>108-95-2 phenol</td>
<td>Oral</td>
<td>LD50</td>
<td>317 mg/kg (rat)</td>
</tr>
<tr>
<td></td>
<td>Dermal</td>
<td>LD50</td>
<td>850 mg/kg (rabbit)</td>
</tr>
</tbody>
</table>

- 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 allergy or asthma symptoms or breathing difficulties if inhaled.
    May cause an allergic skin reaction.
  - CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
  - Germ cell mutagenicity
    Suspected of causing genetic defects.
  - 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: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
42. Mobility in soil
No further relevant information available.

12.4 Mobility in soil
No further relevant information available.

Additional ecological information:

General notes:
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Must not reach sewage water or drainage ditch undiluted or unneutralised.
Danger to drinking water if even small quantities leak into the ground.

12.5 Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

12.6 Other adverse effects
No further relevant information available.

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.

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

SECTION 14: Transport information

14.1 UN-Number
- ADR, IMDG, IATA: UN1263

14.2 UN proper shipping name
- ADR: 1263 PAINT
- IMDG: PAINT
- IATA: Paint

14.3 Transport hazard class(es)
- ADR, IMDG, IATA
- Class: 3 Flammable liquids.

14.4 Packing group
- ADR, IMDG, IATA: III

14.5 Environmental hazards:
Not applicable.

14.6 Special precautions for user
Warning: Flammable liquids.
EMS Number: F-E-S-E

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

UN "Model Regulation": UN 1263 PAINT, 3, III

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Directive 2012/18/EU
- Named dangerous substances - ANNEX I: None of the ingredients is listed.
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

H226 Flammable liquid and vapour.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H331 Toxic if inhaled.
H332 Harmful in contact with skin.
H334 May cause severe skin burns and eye damage.
H337 May cause an allergic skin reaction.
H339 May cause skin sensitisation.
H341 Toxic if inhaled.
H342 Harmful in contact with skin.
H343 May cause severe skin burns and eye damage.
H336 May cause an allergic skin reaction.
H337 May cause skin sensitisation.
R10 Flammable.
R20/22 Harmful by inhalation and if swallowed.
R21/22 Harmful in contact with skin and if swallowed.
R22 Harmful if swallowed.
R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
R34 Causes burns.
R42/43 May cause sensitisation by inhalation and skin contact.
R43 May cause sensitisation by skin contact.
R48/20/21/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
R68 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)
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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Acute Tox. 3: Acute toxicity, Hazard Category 3
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
Mutag. 2: Germ cell mutagenicity, Hazard Category 2
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2