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

- Product identifier
- Trade name: Transpoxy TAR AA 2.12-1 Part B
- Article number: 2.12-1 B
- Relevant identified uses of the substance or mixture and uses advised against
  Paint
- Application of the substance / the mixture Coating material
- 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.
  lsk@kossanpaint.com.my
- Emergency telephone number:
  Manufacturer / supplier
  603-3392 2799

2 Hazards Identification

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

  GHS02 flame

  Flam. Liq. 3 H226 Flammable liquid and vapour.

  GHS07

  Acute Tox. 4 H312 Harmful in contact with skin.
  Acute Tox. 4 H332 Harmful if inhaled.
  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.

- Classification according to Directive 67/548/EEC or Directive 1999/45/EC Xn Harmful
- Hazard description: Xn Harmful
- 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 10 Flammable.
  R 20/21 Harmful by inhalation and in contact with skin. R 36/38 Irritating to eyes and skin.
  R 43 May cause sensitisation by skin contact. 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.
Trade name: Transpoxy TAR AA 2.12-1 Part B

- 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: Xn Harmful

- Risk phrases:

  10 Flammable.
  20/21 Harmful by inhalation and in contact with skin. 36/38 Irritating to eyes and skin.
  43 May cause sensitization by skin contact.

- Safety phrases:

  7/9 Keep container tightly closed and in a well-ventilated place. 16 Keep away from sources of ignition – No smoking.
  23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
  25 Avoid contact with eyes.

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

3 Composition/information on ingredients

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

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>25 – 30</td>
</tr>
<tr>
<td>Butanol</td>
<td>78-83-1</td>
<td>25 – 30</td>
</tr>
</tbody>
</table>
4 First aid measures

Description of first aid measures
· General information:
  Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
· 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.
· After swallowing:
  If symptoms persist consult doctor.

5 Firefighting measures

· Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
· For safety reasons unsuitable extinguishing agents: Water with full jet
· Special hazards arising from the substance or mixture No further relevant information available.
· Advice for firefighters
  · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

a. Personal precautions, protective equipment and emergency procedures
  Wear protective equipment.
b. Environmental precautions: No special measures required.
c. Methods and material for containment and cleaning up:
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.
  Ensure adequate ventilation.
  Do not flush with water or aqueous cleansing agents
d. 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.

7 Handling and storage

· Handling:
  · Precautions for safe handling
    Ensure good ventilation/exhaustion at the workplace.
  · Information about fire - and explosion protection:
    Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
· 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.
· Specific end use(s) No further relevant information available.
8 Exposure controls/personal protection

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

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

- 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 cannot 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:
Trade name: Transpoxy TAR AA 2.12-1 Part B

9 Physical and chemical properties

Information on basic physical and chemical properties · General Information

Appearance:
- Form: Liquid
- Colour: Clear
- Odour: Characteristic
- pH-value: Not determined.
- Change in condition
  - Melting point/Melting range: Not determined
  - Boiling point/Boiling range: Not determined
- Flash point: Not determined
- Flammability (solid, gaseous)
- Ignition temperature:
  - Decomposition temperature: Not determined.
- Self-igniting: Product is not self-igniting
- Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

- Explosion limits:
  - Lower: Not determined.
  - Upper: Not determined.
- Vapour pressure: Not determined.
- Density at 20 °C: 0.92 g/cm³
- 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 at 20 °C: Not determined.
  - Kinematic: Not determined.
- Solvent content:
  - Organic solvents: 60.00 %
  - VOC (EC): 60.00 %
- Other information: No further relevant information available.

10 Stability and reactivity

- Reactivity
- Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions: No dangerous reactions known.
- Conditions to avoid: No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.
11 Toxicological information

- Information on toxicological effects
- Acute toxicity:
- 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:
  Harmful
  Irritant

12 Ecological information

- Toxicity
  - Aquatic toxicity: No further relevant information available.
  - Persistence and degradability: No further relevant information available.
- Behaviour in environmental systems:
  - Bioaccumulative potential: No further relevant information available.
  - Mobility in soil: No further relevant information available.
- Additional ecological information:
  - General notes: Not known to be hazardous to water.
- Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.

13 Disposal considerations

- Waste treatment methods
- Recommendation
  Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- Unclean
- Recommendation: Disposal must be made according to official regulations.

14 Transport information

- UN-Number
  ADR, IMDG, IATA: UN1263
  UN proper shipping name: 1263 PAINT
- ADR
  IMDG, IATA: PAINT
- Transport hazard class(es)
  ADR
  Class: 3 Flammable liquids.
  IMDG, IATA: III
- Environmental hazards:
  Marine pollutant: No
- Special precautions for user
  Warning: Flammable liquids.
- Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
  Not applicable.
- UN “Model Regulation”:
  UN1263, PAINT,3
Trade name: Transpoxy TAR AA 2.12-1 Part B

15 Regulatory information

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

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.

· 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 Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Substances ELINCS: European List of Notified Chemical Substances
  CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU)
· * Data compared to the previous version altered.