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

- Product identifier
- Trade name: Transpoxy Tankguard 4.61 Part B
- Article number: 4.61 B
- Relevant identified uses of the substance or mixture and uses advised against
- Application of the substance / the preparation 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
  603-33922799

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.
  - GHS05 corrosion
    Eye Dam. 1  H318  Causes serious eye damage.
  - GHS07
    Acute Tox. 4  H312  Harmful in contact with skin.
    Acute Tox. 4  H332  Harmful if inhaled.
    Skin Irrit. 2  H315  Causes skin irritation.

- 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 38 Irritating to skin.
  R 41  Risk of serious damage to eyes.
- Classification system:
  The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
Trade name: Transpoxy Tankguard 4.61 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. 38 Irritating to skin.
41   Risk of serious damage to eyes.

· Safety phrases:
  9   Keep container in a well-ventilated place.
  23   Do not breathe vapour/spray.
  25   Avoid contact with eyes.
  26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

· 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.

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

* 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. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. 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: Do not induce vomiting; call for medical help immediately.
· Information for doctor:
· Most important symptoms and effects, both acute and delayed No further relevant information available.
· Indication of any immediate medical attention and special treatment needed
No further relevant information available.
5 Firefighting measures

- Extinguishing media
  - 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

- Personal precautions, protective equipment and emergency procedures
  - Wear protective equipment. Keep unprotected persons away.
- Environmental precautions: No special measures required.
- 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
- 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.
    - Prevent formation of aerosols.
  - 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.
Do not inhale gases / fumes / aerosols.
Avoid contact with the skin.
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

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**9 Physical and chemical properties**

- **Information on basic physical and chemical properties**
  
- **General Information**

  - **Appearance:**
    
<table>
<thead>
<tr>
<th>Form</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>Clear</td>
</tr>
<tr>
<td>Odour</td>
<td>Characteristic</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not determined.</td>
</tr>
</tbody>
</table>

  - **pH-value:**
    
  | Not determined. |

- **Change in condition**

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

  - **Boiling point/Boiling range:**
    
  | Undetermined. |

- **Flash point:**

  | 27°C |
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- **Flammability (solid, gaseous):** Not applicable.
- **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.
- **Segregation coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - Dynamic at 20°C: 40 mPas
  - Kinematic: Not determined.
- **Solvent content:**
  - Organic solvents: 0.00 %
  - VOC (EC): 0.00 %
- **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:** Strong irritant with the danger of severe eye injury.
- **Sensitization:** No sensitizing effects known.
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· 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.
· Other adverse effects No further relevant information available.

13 Disposal considerations

· 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.

14 Transport information

· UN-Number
· ADR, IMDG, IATA UN1263
· UN proper shipping name
· ADR 1263 PAINT
· IMDG, IATA PAINT
· Transport hazard class(es)
· ADR, IMDG, IATA Class 3 Flammable liquids.
· Packing group
· ADR, IMDG, IATA III
· Environmental hazards:
· Marine pollutant: No
· Special precautions for user Warning: Flammable liquids.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.
### 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
  - VOC: Volatile Organic Compounds (USA, EU)
- **Data compared to the previous version altered.**