

Trade name : KOSKOTE EP-SERIES

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

- . **1.1 Product identifier**
- . **Trade name : KOSKOTE EP-SERIES**
- . **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- . **Sector of Use FOR INDOOR STEEL STRUCTURES AND METAL SURFACES**
- . **Product category EPOXY SYSTEM POWDER COATING**
- . **Application of the substance / the mixture Coating material**
- . **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.
lskheong@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**



GHS07

Skin Irrit. 2	H315	Causes skin irritation.
STOT SE 3	H335	May cause respiratory irritation

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- . **Classification according to Directive 67/548/EEC or Directive 1999/45/EC Not applicable.**
 - . **Hazard description : Xi Irritant**
 - . **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.
 R36/38 Irritating to eyes and skin.
 - . **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.

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- . **Code letter and hazard designation of product :** Xi Irritant
- . **Hazard-determining components of labelling :** Epoxy resin
- . **Risks phrases :**
37/38 Irritating to respiratory system and skin.
- . **Safety phrases :**
2 Keep out of the reach fo children.
24/25 Avoid contact with skin and eyes.
37 Wear suitable gloves.
- . **2.3 Other hazards**
- . **Result of PBT and vPvB assessment**
- . **PBT :** Not applicable
- . **vPvB :** Not applicable.

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SECTION 3 : Composition / information on ingredients

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

. **Dangerous components :**

CAS: 25036-25-3	Epoxy resin  Xi R36/38;  R43  Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	< 80%
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- . **Additional information :** For the wording of the listed risk phrases refer to section 16.

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SECTION 4 : First aid measures

- . **4.1 Description of first aid measures**
- . **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 soap and rinse throughly.
- . **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.
- . **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.

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SECTION 5 : Firefighting measures

- . **5.1 Extinguishing media**
Suitable extinguishing agents :
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- . **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.

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SECTION 6 : Accidental release measures

- . **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
- . **6.2 Environmental precautions** : No special measures required.
- . **6.3 Methods and material for containment and cleaning up** : Ensure adequate ventilation. Pick up mechanically.
- . **6.4 Reference to other sections**
 See section 7 information on safe handling.
 See section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

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SECTION 7 : Handling and storage

- . **7.1 Precautions for safe handling** No special precautions are necessary if used correctly.
- . **Information about fire - and explosion protection** : No special measures required.
- . **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.

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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** :

13463-67-7 titanium dioxide (<40%)

WEL	Long-term value: $10 \times 4^{**} \text{ mg/m}^3$ *total inhalable **respirable
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7727-43-7 barium sulphate, natural (<40%)

WEL	Long-term value: $10 \times 4^{**} \text{ mg/m}^3$ *inhalable dust **respirable dust
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- . **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.

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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. 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 : Not required.

SECTION 9 : Physical and chemical properties

. 9.1 Information on basic physical and chemical properties

. General Information

Appearance :	<i>Powder</i>
Form :	<i>Solid</i>
Colour :	<i>Wide Colour Range</i>
. Odour :	<i>Characteristic</i>
. Odour threshold :	<i>Not determined.</i>

. pH - value :	<i>Not applicable.</i>
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. Change in condition

Melting point/Melting range :	<i>Undetermined.</i>
Boiling point/Boiling range :	<i>Undetermined.</i>

. Flash point :	<i>>25 deg. C</i>
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. Flammability (solid, gaseous) :	<i>Not determined.</i>
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. Ignition temperature :

Decomposition temperature :	<i>Not determined.</i>
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. Self - igniting :	<i>Product is not selfigniting.</i>
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. Danger of explosion :	<i>Product does not present an explosion hazard.</i>
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. Explosion limits :

Lower :	<i>Not determined.</i>
Upper :	<i>Not determined.</i>

. Vapour pressure :	<i>Not applicable.</i>
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. Density at 20⁰ C :	<i>1.20 - 1.75 g/cm³ (depend on colour)</i>
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. Relative density	<i>Not determined.</i>
. Vapour density	<i>Not applicable.</i>
. Evaporation rate	<i>Not applicable.</i>
. Solubility in / Miscibility with water :	<i>Insoluble.</i>
. Partition coefficient (n-octanol/water) :	<i>Not determined.</i>
. Viscosity :	
Dynamic :	<i>Not applicable.</i>
Kinematic :	<i>Not applicable.</i>
. Solvent content :	
Organic solvents :	<i>0.0%</i>
VOC (EC)	<i>0.00%</i>
Solid content :	<i>100.0%</i>
. 9.2 Other information	<i>No further relevant information available.</i>

* **SECTION 10 : Stability and reactivity**

- . **10.1 Reactivity**
- . **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**
- . **Primary irritant effect :**
- . **Skin corrosion / irritation** *Irritant to skin and mucous membranes.*
- . **Serious eye damage / irritation** *No irritating effect.*
- . **Respiratory or skin sensititation** *No sensitisation 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 Preparation as issued in the latest version :
Irritant

* **SECTION 12 : Ecological information**

- . **12.1 Toxicity**
- . **Aquatic toxicity :** *No further relevant information available.*

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- . **12.2 Persistence and degradability** No further relevant information available.
- . **12.3 Bioaccumulative potential** No further relevant information available.
- . **12.4 Mobility in soil** No further relevant information available.
- . **Additional ecological information :**
- . **General notes :** Not known to be hazardous to water.
- . **12.5 Results of PBT and vPvB assessment**
- . **PBT :** Not applicable.
- . **vPvB :** Not applicable.
- . **12.6 Other adverse effect** 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**

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|---|-----------------|
| . 14.1 UN-Number | |
| . ADR, AND, IMDG, IATA | Void |
| . 14.2 UN proper shipping name | |
| . ADR, AND, IMDG, IATA | Void |
| . 14.3 Transport hazard class(es) | |
| . ADR, AND, IMDG, IATA | |
| . Class | Void |
| . 14.4 Packing group | |
| . ADR, IMDG, IATA | Void |
| . 14.5 Environmental hazards : | |
| . Marine pollutant : | No |
| . 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | |
| | Not applicable. |
| . UN "Model Regulation" : | |
| | - |

* **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.



Safety data sheet

according to 1907/2006/EC, Article 31

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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

- H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 causes serious eye irritating
- R36/38 Irritating to eyes and skin.
R37 Irritating to respiratory system.
R43 May cause sensititation by skin contact.

. Department issuing MSDS : Product safety department.

. Contact : Mr. S.K. Lim

. Abbreviations and acronyms :

ADR: Accord europeen 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)

Skin Irrit. 2 : Skin corrosion / irritation, Hazard Category 2

Eye Dam. 1 : Serious eye damage / eye irritation, Hazard Category 1

Eye Irrit. 2 : Serious eye damage / eye irritation, Hazard Category 2

Resp. Sens. 1 : Sensitisation - Respirat., Hazard Category 1

Skin Sens. 1 : Sensitisation _ Skin, Hazard Category 1

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

. *Data compared to the previous version altered.