

Safety Data Sheet according to P.U.(A) 310/2013

Printing date 19.04.2021

Version number 1

Revision: 19.04.2021

1 Identification of the hazardous chemical and of the supplier

- **Product identifier**
- **Trade name:** Transpoxy Barrier 2.16FF Part B
- **Article number:** 2.16FF (B)
- **Recommended use of the chemical and restrictions on use** No further relevant information available.
- **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
603-33922799

2 Hazard identification

- **Classification of the substance or mixture**



Flam. Liq. 3 H226 Flammable liquid and vapour.



Eye Dam. 1 H318 Causes serious eye damage.



Skin Irrit. 2 H315 Causes skin irritation.

- **Label elements**
- **GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).
- **Hazard pictograms** GHS02, GHS05
- **Signal word** Danger
- **Hazard-determining components of labelling:**
xylene
butan-1-ol
2,4,6-tris(dimethylaminomethyl)phenol
- **Hazard statements**
Flammable liquid and vapour.

(Contd. on page 2)

MY

Safety Data Sheet

according to P.U.(A) 310/2013

Printing date 19.04.2021

Version number 1

Revision: 19.04.2021

Trade name: Transpoxy Barrier 2.16FF Part B

(Contd. of page 1)

*Causes skin irritation.**Causes serious eye damage.***· Precautionary statements***Keep away from heat/sparks/open flames/hot surfaces – No smoking.**IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.**IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.**Continue rinsing.**Immediately call a POISON CENTER/doctor.**Specific treatment (see on this label).**Dispose of contents/container in accordance with local/regional/national/international regulations.***· Other hazards****· Results of PBT and vPvB assessment****· PBT:** Not applicable.**· vPvB:** Not applicable.

3 Composition and information of the ingredients of the hazardous chemical

· Chemical characterisation: Mixtures**· Description:** Mixture of substances listed below with nonhazardous additions.**· Dangerous components:**

1330-20-7	xylene	≥10-<35%
	⚠ Flam. Liq. 3, H226; ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	
71-36-3	butan-1-ol	≥3-<9%
	⚠ Flam. Liq. 3, H226; ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336	
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	<3.5%
	⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	

· Additional information: For the wording of the listed hazard 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:** 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:** Call for a doctor 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 Fire-fighting measures

· Extinguishing media**· Suitable extinguishing agents:** CO₂, sand, extinguishing powder. Do not use water.**· For safety reasons unsuitable extinguishing agents:** Water with full jet

(Contd. on page 3)

MY

Safety Data Sheet

according to P.U.(A) 310/2013

Printing date 19.04.2021

Version number 1

Revision: 19.04.2021

Trade name: Transpoxy Barrier 2.16FF Part B

(Contd. of page 2)

- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **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 and 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:
71-36-3 butan-1-ol (≥3-<9%)

PEL (Malaysia)	Ceiling limit: 152 mg/m ³ , 50 ppm (kulit)
----------------	--

- **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

(Contd. on page 4)

-MY-

Safety Data Sheet

according to P.U.(A) 310/2013

Printing date 19.04.2021

Version number 1

Revision: 19.04.2021

Trade name: **Transpoxy Barrier 2.16FF Part B**

(Contd. of page 3)

*Wash hands before breaks and at the end of work.**Do not inhale gases / fumes / aerosols.**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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.***· Eye protection:**

Tightly sealed goggles

9 Physical and chemical properties

· Information on basic physical and chemical properties**· General Information****· Appearance:**

Form:	Liquid
Colour:	Brown
Odour:	Characteristic
Odour threshold:	Not determined.

· pH-value: Not determined.**· Change in condition**

Melting point/freezing point	Undetermined.
Initial boiling point and boiling range	Undetermined.

· Flash point: 27 °C**· Flammability (solid, gas)** Not applicable.**· Ignition temperature:** 340 °C**· Decomposition temperature:** Not determined.**· Auto-ignition temperature** Product is not selfigniting.

(Contd. on page 5)

-MY-

Safety Data Sheet

according to P.U.(A) 310/2013

Printing date 19.04.2021

Version number 1

Revision: 19.04.2021

Trade name: Transpoxy Barrier 2.16FF Part B

(Contd. of page 4)

· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapour pressure at 20 °C:	6.7 hPa
· Density at 20 °C:	0.95 g/cm ³
· 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.
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **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**

· LD/LC50 values relevant for classification:		
1330-20-7 xylene		
Oral	LD50	4,300 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rabbit)

- **Primary irritant effect:**
- **Skin corrosion or irritation** Irritant to skin and mucous membranes.
- **Serious eye damage or eye irritation** Irritating effect.
- **Respiratory / skin sensitization** No sensitising effects known.
- **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

(Contd. on page 6)

MY

Safety Data Sheet

according to P.U.(A) 310/2013

Printing date 19.04.2021

Version number 1

Revision: 19.04.2021

Trade name: Transpoxy Barrier 2.16FF Part B

Irritant

(Contd. of page 5)

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:**
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal information

- **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 Transportation 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. |
| · Label | 3 |
| · Packing group | |
| · ADR, IMDG, IATA | III |
| · Environmental hazards: | Not applicable. |

(Contd. on page 7)

-MY-

Safety Data Sheet

according to P.U.(A) 310/2013

Printing date 19.04.2021

Version number 1

Revision: 19.04.2021

Trade name: **Transpoxy Barrier 2.16FF Part B**

(Contd. of page 6)

· Special precautions for user	Warning: Flammable liquids.
· EMS Number:	F-E, <u>S-E</u>
· Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· UN "Model Regulation":	UN 1263 PAINT, 3, III

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **EHS reference list**

All ingredients are listed.

· **GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).

· **Hazard pictograms** GHS02, GHS05

· **Signal word** Danger

· **Hazard-determining components of labelling:**

xylene

butan-1-ol

2,4,6-tris(dimethylaminomethyl)phenol

· **Hazard statements**

Flammable liquid and vapour.

Causes skin irritation.

Causes serious eye damage.

· **Precautionary statements**

Keep away from heat/sparks/open flames/hot surfaces – No smoking.

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Immediately call a POISON CENTER/doctor.

Specific treatment (see on this label).

Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **Seveso category** P5c FLAMMABLE LIQUIDS

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t

· **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 SDS:** Product safety department.

· **Contact:** Mr. S.K. Lim

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international 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

EINECS: European Inventory of Existing Commercial Chemical Substances

(Contd. on page 8)

MY

Safety Data Sheet
according to P.U.(A) 310/2013

Printing date 19.04.2021

Version number 1

Revision: 19.04.2021

Trade name: Transpoxy Barrier 2.16FF Part B

(Contd. of page 7)

ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
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 – Category 3
Acute Tox. 4: Acute toxicity - oral – Category 4
Skin Irrit. 2: Skin corrosion or irritation – Category 2
Eye Dam. 1: Serious eye damage or eye irritation – Category 1
Eye Irrit. 2: Serious eye damage or eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
· *** Data compared to the previous version altered.**

MY