

## SAFETY DATA SHEET

Product Code: **790-2000**

Preparation Date: Jan 2024

Revision No: 1

### 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Product Name : Ales Concrete Barrier Grey (B)  
Product Code No. : A790-2000  
Product Type : Mastic Coat Full Solid Epoxy Based Paint  
Name Of Manufacturer : Kansai Paint (S) Pte Ltd  
  
Address : 2, Tanjong Penjuru  
Singapore 609017  
  
Tel. No. : 65-62618621  
Fax. No : 65-62650301

### 2. HAZARDS IDENTIFICATION :

#### GHS Classification

Flammable Liquid : Category 3  
Skin irritation : Category 2  
Serious eye damage/ Eye Irritation : Category 2  
Respiratory/Skin sensitization : Category 1  
Carcinogenicity : Category 1A  
Reproductive toxicity : category 1A  
Hazardous to aquatic environment – : Category 1  
Specific target organ systemic toxicity-  
Repeated exposure Nervous, Liver,  
Kidney blood : Category 2

#### {GHS Hazard Pictogram



Signal Words: "Danger"

H Code	Hazard Statement
H226	Flammable liquid and vapour
H302	Harmful if swallowed
H312	Harmful if in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H332	Harmful in inhaled
H335	May causes respiratory irritation
H341	Suspected pf causing genetic defects.

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H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs
H412	Harmful to aquatic life with long lasting effects

P Code	Precautionary Statements
P201	Obtain special instruction before use
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from ignition sources such as heat/sparks/open flame. –No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment
P241	Use explosion-proof electrical stirrer, ventilation and lighting.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust, fume, gas, mist, vapors and spray.
P264	Wash hand thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves, clothing, eye and face protection from competent authority.
P312	Call a POISON CENTRE or doctor/physician if you feel unwell.
P322	Specific measures: Refer to First aid instruction.
P363	Wash contaminated clothing before reuse.
P391	Collect Spillage
P302 +P352	If on skin: Wash with plenty of soap and water
P308 +P313	If exposed is concerned: Get medical advise/attention.
P370 +P378	In case of fire, use fire extinguishing media as in section 5 for extinction.
P301 +P312+P330	If Swallowed: Rinse mouth. Call a POISON CENTRE or doctor/physician.
P305+ P351+ P338	If in eyes: remove contact lenses, if present and easy to do, rinse cautiously with water for several minutes.
P332 +P313+P362	If Skin irritation occurs: Take off contaminated clothing and wash before reuse. Get medical advise/attention.
P303 +P361+P353	If on skin (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P403 +P233+P405	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
P501	Dispose of content/container in accordance to local/national regulation.

### 3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

SR. No.	Chemical Name	Wt (%)	CAS No.
1	Bisphenol-A-(epichlorhydrin) epoxy resin	40 – 50	25068-38-6
2	Xylene	2 – 3	1330-20-7
3	pigments	50 - 60	NA
4			
5			

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### 4. FIRST-AID MEASURES :

- a) Eye Contact: Flush eyes with large amount of water for 10 minutes or until irritation subsides. If irritation persists, get medical attention.
- b) Skin Contact: Remove contaminated clothing, immediately flush with large amounts of water and use soap, if available. Get medical attention, if symptom or pain persists.
- c) Inhalation: Remove victim to fresh air. Administer artificial respiration if breathing stopped. Keep at rest, seek prompt medical attention
- d) Ingestion: If swallowed, do not induce vomiting. Keep at rest. Seek prompt medical attention.

### 5. FIRE FIGHTING MEASURES

- a) Fire Extinguishing Media / Agents: Foam, carbon dioxide, dry chemical powder. In case of larger fires, water spray should be used.  
  
Unsuitable : Water jet.
- b) Fire Fighting Instructions: If a leak or spill has not ignited, use spray to disperse the vapours and to protect worker attempting to stop a leak. Keep adjacent containers cool by spraying with water. Extinguish with foam or dry chemicals & try to cover spills with foam. For major fire, contact local Fire Authority
- c) Special Protective Equipment: Firemen must wear self-contained breathing apparatus

### 6. ACCIDENTAL RELEASE MEASURES :

- Exclude sources of ignition & ventilate the area. Exclude nonessential personnel.
- Avoid breathing vapors. Refer to protective measure listed in section 8.

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- Contain and collect spillages with noncombustible absorbent materials e.g sand, earth vermiculite, diatomaouss earth and place in a suitable container for disposal in accordance with the waste regulations (section 13).
  - Do not allow to enter drains or water courses.
  - Clean preferably with a detergent, avoid the use of solvents.
  - If the product enters drains or sewers, or in the case of contamination of streams, ,rivers or lakes contact the relevant authorities.

### 7. HANDLING AND STORAGE :

#### 7.1 Handling

- Handle in well ventilated area
- The product should only be used in areas from which all naked flames and other sources of ignition have been excluded.
- Keep the container tightly closed. Exclude sources of heat, sparks and open flame.
- Avoid skin and eye contact. Avoid inhalation of vapour. Smoking, eating and drinking should be prohibited in areas of storage and use. For personal protection, see section 8.
- Do not press, cut, heat or weld containers. Use only tools that do not produce spark to open and close container
- Regular safe removal of waste material to minimize the risks of spontaneous combustion and other fire hazards.

#### 7.2 Storage

- Observe the label precautions. Store separately from oxidizing agents and strongly alkaline and strongly acidic materials.
- Store at ambient temperature in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.
- Containers which are opened should be properly resealed and kept upright to prevent leakage.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION :

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### 8.1 Engineering Measures

- Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.
- Suitable respiratory protective equipment should be worn.
- Ground equipment for fluid transfer, pumping and stirring.

### 8.2 Exposure limits

Occupational Exposure Standards and/or Maximum Exposure Limits have been established by the Health and Safety Commission or recommended by the supplier for certain of the ingredients. OELs are taken from the current versions of EH40 except those marked 'Sup' which are assigned by the supplier of the substance.

Substances	Occupational Exposure Limits		
	8hr TWA (+)	15 min STEL (+)	Notes

Further guidance on OES/MEL and the assessment of occupational exposure to harmful materials, including mixed exposures, is given in HSE Guidance Note EH40.

### 8.3 Personal protection

Eye Protection: Eye protection designed to protect against liquid splashed should be worn.

Respiratory protection: All personal protective equipment, including respiratory protective equipment, used to control exposure to hazardous substances must be selected to meet the requirements of the COSHH Regulation.

Hand Protection: When skin exposure may occur, advice should be sought from glove suppliers on appropriate types. Barrier creams may help to protect exposed areas of skin but are not substitutes for full physical protection. They should not be applied once exposure has occurred.

Skin protection: Cotton or cotton/synthetic overalls or coveralls are normally suitable. Grossly contaminated clothing should be removed and the skin washed with soap and water or a proprietary skin cleaner.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES :

Physical State	Liquid	Solubility In Water	Insoluble
Odour	Organic	pH	N.AP
Colour	Grey	Boiling Range (°C)	NA
Specific Gravity	1.30- 1.40	Flash point	28(C)
% Volatiles (By Wt.)	NA	Explosion limit	N.AV

### 10. STABILITY AND REACTIVITY :

- Stable under the recommended storage and handling conditions
- Keep away from oxidizing agents and strongly alkaline and strongly acidic materials to prevent the possibility of exothermic reaction
- In case of fire, hazardous decomposition products such as smoke, carbon monoxide, carbon dioxide and oxides of nitrogen may be produced.

### 11. TOXICOLOGICAL INFORMATION :

Acute toxicity

Substances	LD <sub>50</sub> Oral	LD <sub>50</sub> Dermal	LC <sub>50</sub> Inhalation
Bisphenol-A-(epichlorhydrin) epoxy resin	>2000 mg/kg	>2000 mg/kg	

Inhalation

Exposure to organic solvent vapours may result in adverse health effects such as irritation of the mucous membrane and the respiratory system and adverse effects on the renal and central nervous systems. Symptoms include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases loss of consciousness.

Skin contact

Repeated or prolonged contact with the product may lead to removal of natural fats from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

Eye contact

Splashes in the eyes may cause irritation and reversible eyes damage.

Ingestion

Ingestion may result in the following affects; sore throat, abdominal pain, drowsiness, nausea, vomiting and diarrhea. Other effects may be as described for exposure to vapours.

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### 12. ECOLOGICAL INFORMATION :

There is no data available on the product itself. The product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface water. The Air Pollution Control requirements of regulations made under the Environmental Protection Act may apply to the use of this product.

- Mobility : N. AV.
- Biodegradability : N. AV.
- Bioaccumulation : N. AV.
- Sewage Treatment : N. AV.

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### 13. DISPOSAL CONSIDERATIONS :

- This product is not suitable for disposal by either landfill or via municipal sewer, drains, natural streams or rivers.
- Recover or recycle if possible, otherwise incineration.
- Empirical containers should be taken for recycling, recovery or disposal.
- For any disposal, care should be taken to ensure that a suitably qualified or licensed contractor has been selected.

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### 14. TRANSPORTATION INFORMATION :

**Road ADR/Railway**

**RID**

UN Number : UN 3082

Proper Shipping Name : Environmentally hazardous substance, liquid, N.O.S

Class : 9

Packing Group : III

**Air Transport ICAO-  
TI/ IATA-DGR**

UN Number : UN 3082

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Proper Shipping Name Environmentally hazardous substance,liquid,N.O.S

Class : 9

Packing Group : III

**Transport by sea**  
**IMDG-Code**

Marine Pollutant : Yes

EMS No : F-A, S-F

UN Number : UN 3082

Proper Shipping Name Environmentally hazardous substance,liquid,N.O.S

Class : 9

Packing Group : III

MFAG No : NA

IMDG Code Page : 9028

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### 15. REGULATORY INFORMATION :

Follow the local regulations.

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### 16. OTHER INFORMATION (IF ANY) :

Further information about hazard classifications can be found in the Guidelines for labeling of Hazardous Chemicals.

The information in this data sheet is provided in accordance with the requirements of the Chemicals (Hazard Information and Packaging for Supply) Regulation 1994.

The information contained in this data sheet is based on the present state of knowledge and current national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for any particular applications.

Further information and relevant advice can be found in :-

*The Chemicals (Hazard Information and Packaging for Supply) Regulations 1994 (SI 1994 : 3247)*

*Highly Flammable Liquids and liquified Petroleum Gases Regulations 1972 (SI 1972:917)*

*Control of Substances Hazardous to Health Regulations 1988 (SI 1988:1637)*

*Manual Handling Operations Regulations 1992 (SI 1992:2793)*

*Environmental protection (Duty of Care) Regulations 1992 (SI 1992 : 2839)*

*Occupational Exposure Limits, EH 40*

*The storage of flammable liquid in containers, HS(G)51*

*Storage of Packaged Dangerous Substances HS(G)71*

*The Approved Guide to the Classification and labeling of Substances and preparation Dangerous for Supply (Second Edition) L63*

*The Approved Supply List, L61*

*The Approved Code of Practice: Safety Data Sheets for Substances and Preparation Dangerous for supply, L62*

*Industrial Code of Practice (on chemical classification and hazard communication) 2014*

Note : N. AV : Not Available  
N. AP : Not Applicable

**Remarks** : This SDS, described as satisfactorily as possible, does not cover every cases of danger. Hazard information on paint products is estimated as a mixture based on individual raw materials. The use of this information is beyond our control and our knowledge. The information is provided without any representation or warranty, express or implied, regarding its accuracy or correctness.