

**BOSSIL TECHNOLOGY SDN. BHD.****Safety Data Sheet****BS-8512
Multi Purpose Epoxy**

Issued date: 27/12/16

Revision date: -

Revision No.: 0

1. Identification of the substance/preparation and of the company/undertaking**Product name** : BS-8512 Multi Purpose Epoxy (Part A)**Product use** : Epoxy adhesive**Company** : Bossil Technology Sdn. Bhd.
22A-1, Jalan Tasik Utama 10,
The Trillium @ Lake Fields,
Sg. Besi, 57000 Kuala Lumpur,
Malaysia.**Telephone** : +6016 - 2119190**Fax** : -**Email** : sales@bossil.com**Website** : www.bossil.com**2. Hazard(s) identification****Substance/Mixture** : Mixture**Hazard classification** : Skin Irrit.2

Skin Sens.1

Eye Irrit.2

Aquatic Chronic 2

Pictogram

: GHS07



Exclamation mark



GHS09

Environment

Signal word

: Warning

Hazard statement(s):

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statement(s):

P261	Avoid breathing vapours.
P264	Wash hands thoroughly after handling.

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P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with soap and water.
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.
P391	Collect spillage.

Other hazards which do not result in classification but contribute to overall hazards: None known**3. Composition/Information on ingredients**

Chemical name	CAS No.	EINECS No.	%
Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700)	25068-38-6	500-033-5	70 - 90
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	9003-36-5	500-006-8	10 - 30

4. First-aid measures**In case of inhalation:**

Remove to fresh air, keep warm and at rest. Contact physician if symptom persists.

In case of skin contact:

Remove contaminated clothing. Rinse with copious amount of water and soap. Get medical advice if skin irritation or a rash occurs. Wash clothing before reuse.

In case of eye contact:

Contact lenses should be removed. Rinse with copious amount of water immediately. Seek medical advice if eye irritation develops and persists.

In case of ingestion:

DO NOT induce vomiting. Rinse mouth thoroughly with water. Get medical attention if symptom persists.

Personal protection equipment for first-aiders:

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Pay attention to any potential hazards and use recommended personal protection equipment if potential for exposure exists.

Most important symptoms and effects, acute and delayed:

Causes skin irritation and allergic skin reaction. Causes serious eye irritation.

5. Fire-fighting measures**Suitable extinguishing media:**

Water, alcohol-resistant foam, carbon dioxide, dry chemical.

Unsuitable extinguishing media:

High volume water jet.

Specific firefighting procedures:

Remove undamaged containers from fire area if it is safe to do so. Use extinguishing media that is suitable to local circumstances and surrounding environment.

Special person protection equipment for firefighters:

NIOSH-approved self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Specific hazards arising from firefighting:

Exposure to combustion products may be a hazard to health.

Thermal decomposition products:

Not limited to carbon monoxide, carbon dioxide, hydrogen sulphide, oxides of sulphur and barium fume.

6. Accidental release measures**Personal precautions, protective equipment and emergency procedure:**

Use recommended personal protective equipment. Keep unprotected persons away. Ensure adequate ventilation.

Measure for cleaning/collecting:

Wipe or soak with inert liquid binding material (sand, sawdust, etc). Scrape away cured material. Dispose the spilt material according to local or national regulations. Section 13 of this safety data sheet provides information regarding certain local or national requirements.

Additional information:

Prevent spillage from entering drainage/sewer systems. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

7. Handling and storage**Handling:**

Ensure good ventilation during processing. Do not eat, drink or smoke while handling.

Storage:

Keep containers and syringes tightly closed and dry. Store in a well-ventilated area, protected from direct sunlight and heat, with temperature below 30 °C. Keep away from incompatibles. Refer to section 10 for incompatible materials.

8. Exposure controls/personal protection

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Engineering controls:

Ensure adequate ventilation and minimise workplace exposure concentrations.

Industrial hygiene:

Remove immediately all contaminated clothing. Do not inhale dust. Wash hands and contaminated areas with water and soap before leaving the work site. Change clothing before leaving workplace and wash before reuse. Do not eat, drink, or smoke while using product.

Hand protection:

Suitable impervious protective gloves (latex, nitrile, etc.). Breakthrough time is not tested for this product. Change gloves often if possible.

Respiratory protection:

A NIOSH-approved respirator with filter for organic vapours is recommended where local ventilation is not adequate.

Eye/Face protection:

Protective goggles/safety glasses.

9. Physical and chemical properties

Appearance	: Clear viscous liquid
Odour	: Mild odour
Odour threshold	: Not determined
pH	: Not applicable
Freezing/Melting point	: Not determined
Boiling point range	: Not applicable
Flash point	: Not applicable
Evaporation rate	: Not applicable
Flammability	: Not classified as flammable
Explosive properties	: Not classified as explosive
Oxidising properties	: Not classified as oxidising
Vapour pressure	: Not applicable
Vapour density	: Not applicable
Relative density	: 1.16
Solubility in water	: Not determined
N-octanol/water partition coefficient	: Not determined
Decomposition temperature	: Not determined
Viscosity	: 6,000 - 12,000 cPs

10. Stability and reactivity**Reactivity:**

No reactive hazards known.

Stability:

Stable under recommended handling and storage conditions.

Conditions to avoid:

Avoid temperatures above 300 °C. At 350 °C violent decomposition might occur and cause rapid pressure build-up.

Hazardous reactions:

Will not occur by itself. Amine, amide, and mercaptan compounds will cause irreversible polymerisation.

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Hazardous decomposition products:

During normal storage, hazardous decomposition will not occur. At higher temperatures, decomposition products depends on the temperature, air supply and presence of other materials. Irritant gas and vapors will be produced.

Incompatible materials:

Avoid unintended contact with amines, amides, mercaptans, oxidizing materials, acids and bases.

11. Toxicology information

No specific oral, inhalation or dermal toxicology data is known for this product. Any toxicological data included in this section is based on the data associated with the components.

Acute oral toxicity, LD₅₀ (rat):

Not classified based on available information and/or concentration of components.

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700)	>15,000 mg/kg
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	>5,000 mg/kg

Acute dermal toxicity, LD₅₀ (rabbit):

Not classified based on available information and/or concentration of components.

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700)	>23,000 mg/kg
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	>6,000 mg/kg

Acute inhalation toxicity, LC₅₀ (4 hours, rat):

Not classified based on available information and/or concentration of components.

Serious eye damage/eye irritation:

Classified as eye irritant.

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700)	Causes eye irritation.
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	Causes eye irritation.

Skin corrosion/skin irritation:

Classified as skin irritant.

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700)	Causes skin irritation.
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	Causes skin irritation.

Respiratory/Skin sensitisation:

Not classified as respiratory sensitiser, but may cause an allergic skin reaction.

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700)	Causes sensitisation on skin.
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	Causes sensitisation on skin.

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Germ cell mutagenicity:

Not classified based on available information and/or concentration of components.

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)Positive genotoxicity *in vitro*, but activity was eliminated by addition of metabolising enzyme.
Negative genotoxicity *in vivo*.**Carcinogenicity:**

Not classified based on available information and/or concentration of components.

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)No carcinogenic potential.
NOAEL: 15 mg/kg bw/day**Reproductive toxicity:**

Not classified based on available information and/or concentration of components.

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)

No effect on fertility and foetal development.

Specific target organ toxicity – single exposure:

Not classified based on available information and/or concentration of components.

Specific target organ toxicity – repeated exposure:

Not classified based on available information and/or concentration of components.

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)Exposure by dermal for 13 weeks on rats.
NOEL: 1 mg/kg bw/day**Aspiration toxicity:**

Not classified based on available information and/or concentration of components.

Likely route of administration:

Inhalation, skin contact, and ingestion.

Additional notes:

This product contains trace residual quantities of epichlorohydrin (CAS no. 106-89-8; EC no. 203-439-8). It is very unlikely that normal work practices with it in this workplace would release it to the atmosphere. Nevertheless, you should be aware that epichlorohydrin has been reported to produce cancer in laboratory animals and to produce mutagenic changes in bacteria and cultured human cells.

12. Ecological information

Individual components of this mixture have been independently tested by the raw material suppliers and any known results have been presented below. The results for the individual components may not be representative of the ecological toxicity of this finished product. This finished product has not been tested to determine individual toxicological/ecological limits.

Ecology toxicity:

Toxic to aquatic life with long lasting effects.

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)

Toxicity to fish

Toxicity to crustacean

Toxicity to algae or other aquatic plants

Exposure for 96 hours, LC₅₀: 2.3 mg/LExposure for 48 hours, EC₅₀: 1.1 mg/LExposure for 72 hours, EC₅₀: 9.4 mg/L**Persistence and degradability:**

Not likely to be persistent based on available information and/or concentration of components.

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Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700)No biodegradation observed, but significant hydrolysis observed. Exposure for 28 days, hydrolysis of $>82\%$.**Bioaccumulative potential:**

No bioaccumulation potential based on available information and/or concentration of components..

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700)

BCF: 31

Mobility in soil:

No data available.

13. Disposal information**Waste treatment/disposal methods - unused products**

Should not be released into the environment. Classified as hazardous waste according to (national equivalent of EC-Dir. 91/689; disposal of toxic and hazardous waste). It must undergo special treatment, e.g. at suitable disposal site, to comply with local regulations. Use a registered waste disposal company and supply accurate information about the nature of the hazard.

Waste disposal number: 08 04 09*

Waste treatment/disposal methods - contaminated packaging

Contaminated packaging is classified as hazardous waste. Empty containers should be transported/delivered using a registered waste carrier for local recycling or waste disposal. Fully drained containers which are drop- and scrape-free can be treated as industrial waste, and can possibly be recycled.

Waste disposal number: 15 01 10*

14. Transport information**Road transport (UNRTDG)**

:
UN number : UN3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical name : Epoxy resin
Hazard class : 9
Classification code : M6
Packing group : PG III

Marine transport (IMDG)

:
UN number : UN3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical name : Epoxy resin
Hazard class : 9
EmS : F-A, S-F
Packing group : PG III
Marine pollutant : No

Air transport (IATA)

:
UN number : UN3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical name : Epoxy resin
Hazard class : 9
Packing group : PG III

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15. Regulatory information**Safety, health, and environmental regulations specific for the hazardous chemical in question:**

Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2010 (Malaysia)

Occupational Safety and Health (Classification, Labelling, and Safety Data Sheet of Hazardous Chemicals) Regulations 2013 (Malaysia)

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (European Union)

Occupational Safety and Health Administration (OSHA) (2006) Air Contaminants. 29 CFR 1910.1000 (United States of America)

Work Health and Safety Act 2011 (Australia)

EH40/2005 Workplace exposure limits (United Kingdom)

Chemical inventory status:

Australia AICS : All ingredients listed or exempt.
Canada DSL : All ingredients listed or exempt.
China IECSC : All ingredients listed or exempt.
Korea KECI : All ingredients listed or exempt.
Philippines PICCS : All ingredients listed or exempt.
United States TCSA : All ingredients listed or exempt.

16. Other information**Definitions:**

TWA : Time-weighted average.
STEL : Short-term exposure level.
OSHA : Occupational Safe and Health Act
WEL : Workplace exposure limits
LD₅₀ : The minimum dose required for lethal effects in 50% of a given population of test specimens.
ppm : part per million
bw : body weight
NOAEL : No-observed-adverse-effect-level
NIOSH : National Institute for Occupational Safety and Health.
UNRTDG : United Nations Recommendations on the Transport of Dangerous Goods
IMDG : International Maritime Dangerous Goods
IATA : International Air Transport Association
AICS : Australian Inventory of Chemical Substances
DSL : Domestic Substance List
IECSC : Inventory of Existing Chemical Substances in China.
KECI : Korea Existing Chemicals Inventory.
HSNO : Hazardous Substance and New Organisms
PICCS : Philippines Inventory of Chemicals and Chemical Substances.
TSCA : Toxic Substances Control Act.

All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee these are the only hazards that exist. The details contained herein are based on our present state of knowledge and experience in characterising our product with regard to any possible safety requirement at the date of its publication. We do, however, pass them on without any warranty or property assurances.

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1. Identification of the substance/preparation and of the company/undertaking**Product name** : BS-8512 Multi Purpose Epoxy (Part B)**Product use** : Epoxy adhesive**Company** : Bossil Technology Sdn. Bhd.
22A-1, Jalan Tasik Utama 10,
The Trillium @ Lake Fields,
Sg. Besi, 57000 Kuala Lumpur,
Malaysia.**Telephone** : +6016 - 2119190**Fax** : -**Email** : sales@bossil.com**Website** : www.bossil.com**2. Hazard(s) identification****Substance/Mixture** : Mixture**Hazard classification** : Skin Irrit.2
Skin Sens.1
Eye Dam.1**Pictogram**

: GHS05



Corrosive

GHS07



Exclamation mark

Signal word

: Danger

Hazard statement(s):

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.

Precautionary statement(s):

P261	Avoid breathing vapours.
P264	Wash hands thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

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P302+P352	IF ON SKIN: Wash with soap and water.
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.
P363	Wash contaminated clothing before reuse.

Other hazards which do not result in classification but contribute to overall hazards: None known

3. Composition/Information on ingredients

Chemical name	CAS No.	EINECS No.	%
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2	202-013-9	1 - 10

4. First-aid measures

In case of inhalation:

Remove to fresh air, keep warm and at rest. Contact physician if symptom persists.

In case of skin contact:

Remove contaminated clothing. Rinse with copious amount of water and soap. Get medical advice if skin irritation or a rash occurs. Wash clothing before reuse.

In case of eye contact:

Contact lenses should be removed. Rinse with copious amount of water immediately. Seek medical advice if eye irritation develops and persists.

In case of ingestion:

DO NOT induce vomiting. Rinse mouth thoroughly with water. Get medical attention if a symptom persists.

Personal protection equipment for first-aiders:

Pay attention to any potential hazards and use recommended personal protection equipment if potential for exposure exists.

Most important symptoms and effects, acute and delayed:

May cause skin irritation and allergic skin reaction. Causes serious eye irritation.

5. Fire-fighting measures

Suitable extinguishing media:

Water, alcohol-resistant foam, carbon dioxide, dry chemical.

Unsuitable extinguishing media:

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None known.

Specific firefighting procedures:

Remove undamaged containers from fire area if it is safe to do so. Use extinguishing media that is suitable to local circumstances and surrounding environment.

Special person protection equipment for firefighters:

NIOSH-approved self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Specific hazards arising from firefighting:

Exposure to combustion products may be a hazard to health.

Thermal decomposition products:

Not limited to carbon monoxide, carbon dioxide, hydrogen sulphide, oxides of sulphur and barium fume.

6. Accidental release measures**Personal precautions, protective equipment and emergency procedure:**

Use recommended personal protective equipment. Keep unprotected persons away. Ensure adequate ventilation.

Measure for cleaning/collecting:

Wipe or soak with inert liquid binding material (sand, sawdust, etc.). Scrape away cured material. Dispose the spilt material according to local or national regulations. Section 13 of this safety data sheet provides information regarding certain local or national requirements.

Additional information:

Prevent spillage from entering drainage/sewer systems. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

7. Handling and storage**Handling:**

Ensure good ventilation during processing. Do not eat, drink or smoke while handling.

Storage:

Keep containers and syringes tightly closed and dry. Store in a well-ventilated area, protected from direct sunlight and heat, with temperature below 30 °C. Keep away from incompatibles. Refer to section 10 for incompatible materials.

8. Exposure controls/personal protection**Engineering controls:**

Product curing may form hazardous compounds. Ensure adequate ventilation and minimise workplace exposure concentrations.

Industrial hygiene:

Remove immediately all contaminated clothing. Do not inhale vapour. Wash hands and contaminated areas with water and soap before leaving the work site. Change clothing before leaving workplace and wash before reuse. Do not eat, drink, or smoke while using product.

Hand protection:

Suitable impervious protective gloves (latex, nitrile, etc.). Breakthrough time is not tested for this product. Change gloves often if possible.

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Respiratory protection:

A NIOSH-approved respirator with filter for organic vapours is recommended where local ventilation is not adequate.

Eye/Face protection:

Protective goggles/safety glasses.

9. Physical and chemical properties

Appearance	: Clear viscous liquid
Odour	: Ammoniacal odour
Odour threshold	: Not determined
pH	: Not applicable
Freezing/Melting point	: Not determined
Boiling point range	: Not applicable
Flash point	: Not applicable
Evaporation rate	: Not applicable
Flammability	: Not classified as flammable
Explosive properties	: Not classified as explosive
Oxidising properties	: Not classified as oxidising
Vapour pressure	: Not applicable
Vapour density	: Not applicable
Relative density	: 0.98
Solubility in water	: Not determined
N-octanol/water partition coefficient	: Not determined
Decomposition temperature	: Not determined
Viscosity	: 35,000 - 45,000 cPs

10. Stability and reactivity**Reactivity:**

No reactive hazards known.

Stability:

Stable under recommended handling and storage conditions.

Conditions to avoid:

None known.

Hazardous reactions:

Will not occur by itself.

Hazardous decomposition products:

During normal storage, hazardous decomposition will not occur. At higher temperatures, decomposition products depends on the temperature, air supply and presence of other materials. Irritant gas and vapors will be produced.

Incompatible materials:

Avoid contact with oxidizing materials, acids and bases.

11. Toxicology information

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No specific oral, inhalation or dermal toxicology data is known for this product. Any toxicological data included in this section is based on the data associated with the components.

Acute oral toxicity, LD₅₀ (rat):

Not classified based on available information and/or concentration of components.

2,4,6-tris(dimethylaminomethyl)phenol	2,169 mg/kg
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Acute dermal toxicity, LD₅₀ (rabbit):

Not classified based on available information and/or concentration of components.

2,4,6-tris(dimethylaminomethyl)phenol	>980 mg/kg
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Acute inhalation toxicity, LC₅₀ (4 hours, rat):

Not classified based on available information and/or concentration of components.

Serious eye damage/eye irritation:

Classified as causing serious eye damage.

2,4,6-tris(dimethylaminomethyl)phenol	Corrosive to eye.
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Skin corrosion/skin irritation:

Classified as skin irritant.

2,4,6-tris(dimethylaminomethyl)phenol	Corrosive to skin.
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Respiratory/Skin sensitisation:

Not classified as respiratory sensitiser, but may cause an allergic skin reaction.

2,4,6-tris(dimethylaminomethyl)phenol	Causes skin sensitisation.
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Germ cell mutagenicity:

Not classified based on available information and/or concentration of components.

2,4,6-tris(dimethylaminomethyl)phenol	Negative genotoxicity <i>in vitro</i> .
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Carcinogenicity:

Not classified based on available information and/or concentration of components.

Reproductive toxicity:

Not classified based on available information and/or concentration of components.

2,4,6-tris(dimethylaminomethyl)phenol	No effect on fertility and foetal development. NOEL: 15 mg/kg bw/day (fertility)
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Specific target organ toxicity – single exposure:

Not classified based on available information and/or concentration of components.

Specific target organ toxicity – repeated exposure:

Not classified based on available information and/or concentration of components.

2,4,6-tris(dimethylaminomethyl)phenol	Exposure by oral for 54 days on rats. NOEL: 15 mg/kg bw/day
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Exposure by dermal for 4 weeks on rats.
NOEL: 5 mg/kg bw/day**Aspiration toxicity:**

Not classified based on available information and/or concentration of components.

Likely route of administration:

Inhalation, skin contact, and ingestion.

12. Ecological information

Individual components of this mixture have been independently tested by the raw material suppliers and any known results have been presented below. The results for the individual components may not be representative of the ecological toxicity of this finished product. This finished product has not been tested to determine individual toxicological/ecological limits.

Ecology toxicity:

No adverse effect on aquatic organisms is predicted based on available information and/or concentration of components.

2,4,6-tris(dimethylaminomethyl)phenol
Toxicity to fish
Toxicity to crustacean
Toxicity to algae or other aquatic plantsExposure for 96 hours, LC₅₀: 180 - 240 mg/L
Exposure for 96 hours, LC₅₀: 718 mg/L
Exposure for 72 hours, EC₅₀: 84 mg/L**Persistence and degradability:**

Not likely to be persistent based on available information and/or concentration of components.

2,4,6-tris(dimethylaminomethyl)phenol

Not readily biodegradable.
Exposure for 28 days, 4% biodegradation.**Bioaccumulative potential:**

No bioaccumulation potential based on available information and/or concentration of components.

Mobility in soil:

No data available.

13. Disposal information**Waste treatment/disposal methods - unused products**

Waste disposal must be in compliance with environmental protection requirements and local regulations.

Waste treatment/disposal methods - contaminated packaging

Dispose of as unused product. Empty container should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

Road transport (UNRTDG) : Not regulated as dangerous goods.
UN number : Not applicable
Proper shipping name : Not applicable
Technical name : Not applicable
Hazard class : Not applicable

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Classification code : Not applicable
Packing group : Not applicable

Marine transport (IMDG) : Not regulated as dangerous goods.
UN number : Not applicable
Proper shipping name : Not applicable
Technical name : Not applicable
Hazard class : Not applicable
EmS : Not applicable
Packing group : Not applicable
Marine pollutant : Not applicable

Air transport (IATA) :
UN number : UN3334
Proper shipping name : AVIATION REGULATED LIQUID N.O.S.
Technical name : Polymercaptan
Hazard class : 9
Packing group : Not applicable

15. Regulatory information**Safety, health, and environmental regulations specific for the hazardous chemical in question:**

Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2010 (Malaysia)

Occupational Safety and Health (Classification, Labelling, and Safety Data Sheet of Hazardous Chemicals) Regulations 2013 (Malaysia)

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (European Union)

Occupational Safety and Health Administration (OSHA) (2006) Air Contaminants. 29 CFR 1910.1000 (United States of America)

Work Health and Safety Act 2011 (Australia)

EH40/2005 Workplace exposure limits (United Kingdom)

Chemical inventory status:

Australia AICS : All ingredients listed or exempt.
Canada DSL : All ingredients listed or exempt.
China IECSC : All ingredients listed or exempt.
Korea KECI : All ingredients listed or exempt.
Philippines PICCS : All ingredients listed or exempt.
United States TCSA : All ingredients listed or exempt.

16. Other information**Definitions:**

TWA : Time-weighted average.
STEL : Short-term exposure level.
OSHA : Occupational Safe and Health Act
WEL : Workplace exposure limits
LD₅₀ : The minimum dose required for lethal effects in 50% of a given population of test specimens.
ppm : part per million

**BOSSIL TECHNOLOGY SDN. BHD.****Safety Data Sheet****BS-8512
Multi Purpose Epoxy**

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bw	: body weight
NOAEL	: No-observed-adverse-effect-level
NIOSH	: National Institute for Occupational Safety and Health.
UNRTDG	: United Nations Recommendations on the Transport of Dangerous Goods
IMDG	: International Maritime Dangerous Goods
IATA	: International Air Transport Association
AICS	: Australian Inventory of Chemical Substances
DSL	: Domestic Substance List
IECSC	: Inventory of Existing Chemical Substances in China.
KECI	: Korea Existing Chemicals Inventory.
HSNO	: Hazardous Substance and New Organisms
PICCS	: Philippines Inventory of Chemicals and Chemical Substances.
TSCA	: Toxic Substances Control Act.

All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee these are the only hazards that exist. The details contained herein are based on our present state of knowledge and experience in characterising our product with regard to any possible safety requirement at the date of its publication. We do, however, pass them on without any warranty or property assurances.