	BOSSIL	TECHNOLOG	Y SDN. BHD.
Bossil	Safety Data Sheet		
	Flexible	BS-8442 Cementitious V	Vaterproofing
Issued date: 23/1	2/16 Revision	n date: -	Revision No.: 0
1. Identification	on of the substance/preparat	tion and of the	e company/undertaking
Product use : Wat	8442 Flexible Cementitious Waterprotection material	-	
22A	sil Technology Sdn. Bhd. -1, Jalan Tasik Utama 10,	Telephone Fax	: +6016 - 2119190 : -
	Trillium @ Lake Fields, Besi, 57000 Kuala Lumpur,	Email Website	: sales@bossil.com : www.bossil.com
Mal	aysia.		
2. Hazard(s) i	dentification		
Substance/Mixture	: Mixture		
Hazard classification	<u>n</u> :Skin Irrit.2		
	Skin Sens.1		
	Eye Irrit.2		
	$\wedge$		
Pictogram	: GHS07 V Exclamatio	n mark	
Signal word	: Warning		
Hazard statement(s)	:		
H315	Causes skin irritation.		
H317	May cause an allergic skin reaction		
H319	Causes serious eye irritation.		
Precautionary state	ment(s):		
P261	Avoid breathing vapours.		
P264	Wash hands thoroughly after handli	ng.	
P272	Contaminated work clothing should	not be allowed ou	ut of the workplace.
P280	Wear protective gloves/protective c	othing/eye protec	tion/face protection.
P302+P352	IF ON SKIN: Wash with soap and w	ater.	
P305+P351+P338	IF IN EYES: Rinse continuously with present and easy to do – continue r		I minutes. Remove contact lenses if



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P332+P313	If skin irritation occurs: Get medical advice/attention.	
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.	
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.	%
Ordinary Portland Cement	65997-15-1	266-043-4	30 - 50
Silica sand	14808-60-7	238-878-4	30 - 50
Limestone	1317-65-3	215-279-6	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:

Do not rub eyes. 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 and eye irritation. May cause an allergic skin reaction.

# 5. Fire-fighting measures



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Suitable extinguishing media:

Alcohol-resistant foam, carbon dioxide, dry chemical.

## Unsuitable extinguishing media:

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:

Oxides of carbon.

# 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 use. Avoid contact with skin and eyes. Do not eat, drink, or smoke when using the product.

#### Storage:

Ensure containers and cartridges are tightly closed. Store in a dry, well-ventilated area, and protected from direct sunlight with temperature not exceeding 30 °C. Keep away from incompatibles. Refer to section 10 for incompatible materials.

# 8. Exposure controls/personal protection

Components	CAS No.	Form of exposure (Value type)	Control Parameter	Basis
Ordinary Portland Cement	65997-15-1	8 hours TWA (Particulate matter containing no asbestos and <1% crystalline silica)	10 mg/m <sup>3</sup>	Malaysia OSHA





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Ordinary Portland Cement (total dust)	65997-15-1	8 hours TWA	15 mg/m <sup>3</sup>	US OSHA
Ordinary Portland Cement (inhalable dust)	65997-15-1	8 hours TWA (Particulate matter containing no asbestos and <1% crystalline silica)	10 mg/m <sup>3</sup>	UK WEL
Ordinary Portland Cement (respirable dust)	65997-15-1	8 hours TWA (Particulate matter containing no asbestos and <1% crystalline silica)	4 mg/m <sup>3</sup>	UK WEL
Ordinary Portland Cement	65997-15-1	8 hours TWA (Particulate matter containing no asbestos and <1% crystalline silica)	10 mg/m <sup>3</sup>	Safe Work Australia
Limestone	1317-62-3	8 hours TWA (Particulate matter containing no asbestos and <1% crystalline silica)	10 mg/m <sup>3</sup>	Malaysia OSHA
Limestone (total dust)	1317-62-3	8 hours TWA	10 mg/m <sup>3</sup>	US OSHA
Limestone (respirable fraction)	1317-62-3	8 hours TWA	5 mg/m <sup>3</sup>	US OSHA
Limestone (inhalable dust)	1317-62-3	8 hours TWA	10 mg/m <sup>3</sup>	UK WEL
Limestone (respirable dust)	1317-62-3	8 hours TWA	4 mg/m <sup>3</sup>	UK WEL
Limestone	1317-62-3	8 hours TWA (Particulate matter containing no asbestos and <1% crystalline silica)	10 mg/m <sup>3</sup>	Safe Work Australia

# 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.

#### **Respiratory protection:**

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

#### Eye/Face protection:



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Protective goggles/safety glasses.

# 9. Physical and chemical properties

Appearance Odour Odour threshold pH Freezing/Melting point Boiling point range Flash point Evaporation rate Flammability Explosive properties Oxidising properties Vapour pressure Vapour density Relative density	<ul> <li>Powder</li> <li>Not applicable</li> <li>Not determined</li> <li>Not determined</li> <li>Not determined</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not classified as flammable</li> <li>Not classified as explosive</li> <li>Not classified as oxidising</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not classified as oxidising</li> <li>Not applicable</li> </ul>
Solubility in water	: Soluble in water
N-octanol/water partition coefficient Decomposition temperature	: Not determined : Not determined
Viscosity	: Not applicable

# 10. Stability and reactivity

#### Reactivity:

No reactive hazards known.

#### Stability:

Stable under recommended handling and storage conditions.

#### Conditions to avoid:

None known.

#### Hazardous reactions:

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

#### Hazardous decomposition products:

None known.

#### Incompatible materials:

None known.

# 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, LD<sub>50</sub> (rat):

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

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Limestone	>2,000 mg/kg
Linestone	22,000 mg/kg

### Acute dermal toxicity, LD<sub>50</sub> (rabbit):

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

#### Acute inhalation toxicity, LC<sub>50</sub> (6 hours, rat):

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

### Serious eye damage/eye irritation:

Classified as an eye irritant.

Ordinary Portland Cement	Causes eye irritation.
Limestone	No eye irritation.

## Skin corrosion/skin irritation:

Classified as a skin irritant.

Ordinary Portland Cement	Causes skin irritation.
Limestone	Not skin irritant.

### Respiratory/Skin sensitisation:

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

Ordinary Portland Cement	Sensitising on skin.
Limestone	Not sensitising on skin.

#### Germ cell mutagenicity:

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

Limestone	Negative genotoxicity in vitro.

### 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.

#### 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.

#### Aspiration toxicity:

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



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## Likely route of administration:

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.

ure for 96 hours, $LC_{50}$ : >100 mg/L
ure for 48 hours, EC <sub>50</sub> : >100 mg/L
ure for 72 hours, EC <sub>50</sub> : >14 mg/L

#### Persistence and degradability:

No data available.

#### **Bioaccumulative potential:**

No data available.

#### Mobility in soil:

EmS

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) UN number Proper shipping name Technical name Hazard class Classification code Packing group	<ul> <li>Not regulated as dangerous goods.</li> <li>Not applicable</li> </ul>
<u>Marine transport (IMDG)</u> UN number Proper shipping name Technical name Hazard class	: Not regulated as dangerous goods. : Not applicable : Not applicable : Not applicable : Not applicable : Not applicable

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Packing group Marine pollutant	: Not applicable : Not applicable	
<u>Air transport (IATA)</u> UN number Proper shipping name Technical name Hazard class Packing group	: Not regulated as dangerous goods. : Not applicable : Not applicable : Not applicable : Not applicable : Not applicable : 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:

Canada DSL/NDSL : 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
LD <sub>50</sub>	: The minimum dose required for lethal effects in 50% of a given population of test specimens.
ppm	: part per million
bw	: body weight
NIOSH	: National Institute for Occupational Safety and Health.
UNRTDG	: United Nations Recommendations on the Transport of Dangerous Goods
IMDG	: International Maritime Dangerous Goods
ΙΑΤΑ	: International Air Transport Association
DSL	: Domestic Substance List
NDSL	: Non-domestic Substances List
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

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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: VT-442 VitalShield Flex (Part B)Product use<br/>Company: Waterproofing material<br/>: Vital Technical Sdn. Bhd.<br/>No. 93, Jalan Industri 3/3,<br/>Rawang Integrated Industrial Park,<br/>48000 Rawang, Selangor,<br/>Malaysia.

Telephone Fax Email Website : +603 - 6092 0000 : +603 - 6092 0099 : sales@vitaltechnical.com : http://www.vitaltechnical.com

# 2. Hazard(s) identification

Substance/Mixture	: Mixture
Pictogram	: Not classified as hazardous
Signal word	: Not classified as hazardous
Hazard Statement(s)	: Not classified as hazardous
Precautionary Statement(s)	: Not classified as hazardous

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

# 3. Composition/Information on ingredients

Does not contain hazardous ingredients based on available information and/or concentration of components.

# 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:

None known.



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## 5. Fire-fighting measures

#### Suitable extinguishing media:

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

#### Unsuitable extinguishing media:

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:

Oxides of carbon.

# 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 use. Avoid contact with skin and eyes. Do not eat, drink, or smoke when using the product.

#### Storage:

Ensure containers and cartridges are tightly closed. Store in a dry, well-ventilated area, and protected from direct sunlight with temperature not exceeding 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.



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### 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.

#### **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	: White liquid
Odour	: Slight ammonia odour
Odour threshold	: Not determined
рН	:8-9
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	: Approx. 1.00
Solubility in water	: Soluble in water
N-octanol/water	
partition coefficient	: Not determined
Decomposition temperature	: Not determined
Viscosity	: Not applicable

# 10. Stability and reactivity

#### Reactivity:

No reactive hazards known.

#### Stability:

Stable under recommended handling and storage conditions.

#### Conditions to avoid:

None known.

#### Hazardous reactions:

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

#### Hazardous decomposition products:





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None known.

#### Incompatible materials:

None known.

# 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, LD<sub>50</sub> (rat):

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

#### Acute dermal toxicity, LD<sub>50</sub> (rabbit):

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

#### Acute inhalation toxicity, LC<sub>50</sub> (6 hours, rat):

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

#### Serious eye damage/eye irritation:

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

#### Skin corrosion/skin irritation:

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

#### Respiratory/Skin sensitization:

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

#### Germ cell mutagenicity:

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

#### 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.

#### 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.

#### Aspiration toxicity:

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

#### Likely route of administration:

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.



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#### **Ecology toxicity:**

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

### Persistence and degradability:

No data available.

### **Bioaccumulative potential:**

No data available.

### 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) UN number Proper shipping name Technical name Hazard class Classification code Packing group	<ul> <li>Not regulated as dangerous goods.</li> <li>Not applicable</li> </ul>
Marine transport (IMDG) UN number Proper shipping name Technical name Hazard class EmS Packing group Marine pollutant	<ul> <li>Not regulated as dangerous goods.</li> <li>Not applicable</li> </ul>
<u>Air transport (IATA)</u> UN number Proper shipping name Technical name Hazard class Packing group	<ul> <li>Not regulated as dangerous goods.</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>

## **15.Regulatory information**

Safety, health, and environmental regulations specific for the hazardous chemical in question:



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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:**

Canada DSL/NDSL	: All ingredients listed or exempt.
United States TCSA	: All ingredients listed or exempt.

# 16. Other information

## Definitions:

Definitions:	
TWA	: Time-weighted average.
STEL	: Short-term exposure level.
OSHA	: Occupational Safe and Health Act
WEL	: Workplace exposure limits
LD <sub>50</sub>	: The minimum dose required for lethal effects in 50% of a given population of test specimens.
ppm	: part per million
bw	: body weight
NIOSH	: National Institute for Occupational Safety and Health.
UNRTDG	: United Nations Recommendations on the Transport of Dangerous Goods
IMDG	: International Maritime Dangerous Goods
ΙΑΤΑ	: International Air Transport Association
DSL	: Domestic Substance List
NDSL	: Non-domestic Substances List
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.