# **SAFETY DATA SHEET**

### **MAKCOTE HS BASE**

Makrete Pty Ltd Version No: 1.0

GHS7

# SECTION 1 MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Base component of epoxy floor coating system

#### **Product Identifier**

Relevant Identified uses

Product Name	MAKCOTE HS BASE

### Relevant identified uses of the substance or mixture and uses advised against

## Details of the supplier of the safety data sheet

Registered Company Name	Makrete Pty Ltd
Address	PO Box 50, Montmorency, VIC 3094
Telephone	1300 911 161
Website	www.makrete.com.au
Email	admin@makrete.com.au

#### **Emergency telephone number**

Emergency Telephone Numbers	1300 911 161
Other emergency telephone	
numbers	

## SECTION 2 HAZARDS IDENTIFICATION

### Classification of the substance or mixture

### HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code

Poisons Schedule	S5
Classification	Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, Skin Sensitizer Category 1, Acute Aquatic Hazard Category 2, Chronic Aquatic Hazard Category 2

### Label elements

Hazard pictogram(s)	
SIGNAL WORD	WARNING



Issue Date:

May 2023

### Hazard statement(s)

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

### **Precautionary statement(s) Prevention**

P280	Vear protective gloves/protective clothing/eye protection/face protection.	
P260	Avoid breathing mist/vapours/spray.	
P271	Avoid release to the environment.	
P280	Contaminated work clothing should not be allowed out of the workplace.	

### Precautionary statement(s) Response

P362	Take off contaminated clothing and wash before reuse.	
P302+P352	IF ON SKIN: Wash with plenty of soap and water.	
	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.	

### Precautionary statement(s) Storage

Not applicable.

### Precautionary statement(s) Disposal

P501	Dispose of contents/container in accordance with local regulations.

# SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

#### Substances

See section below for composition of Mixtures

### **Chemical Entity**

CAS No	%[weight]	Name
14808-60-7	30-60	silica crystalline - quartz
25068-38-6	10-30	bisphenol A/ diglycidyl ether resin, liquid
28064-14-4	1-10	bisphenol F glycidyl ether/ formaldehyde copolymer
68609-97-2	1-10	(C12-14)alkylglycidyl ether

## SECTION 4 FIRST AID MEASURES

### **Description of First Aid Measures**

Eye Contact	If this product meets the eyes:
	Wash out immediately with fresh running water.
	Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally
	lifting the upper and lower lids.
	Seek medical attention without delay; if pain persists or recurs seek medical attention.
	Transport to hospital or doctor without delay.
	Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Skin Contact	If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water and soap if available. Seek medical attention in event of irritation.
Inhalation	If fumes or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness, i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice. Avoid giving milk or oils. If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower their hips to help avoid possible aspiration of vomitus.

Indication of any immediate medical attention and special treatment needed – Treat symptomatically.

# SECTION 5 FIREFIGHTING MEASURES

Extinguishing media Foam Dry chemical powder BCF (where regulations permit) Carbon dioxide Special hazards arising from the substrate or mixture.

ine incompationity	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

### Advice for firefighters

Fire Fighting	Alert Fire Brigade and t ell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent by any means available, spillage from entering drains or water course. Use firefighting procedures suitable for surrounding areas.
Fire Explosion Hazard	Combustible. Slight fire hazard when exposed to heat or flame. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion products may include: Carbon Dioxide (CO2) Silicon Dioxide (SiO2) Other pyrolysis products typical of burning organic material.
HAZCHEM	3Z

## SECTION 6 ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

See section 8 Environmental precautions

See section 12

Minor Spills	Environmental hazard – contain spillage.	
	Check regularly for spills and leaks.	
	Slippery when spilt.	
	Clean up all spills immediately.	
	Avoid breathing vapours and contact with skin and eyes.	
	Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand,	
	earth, inert material or vermiculite.	
Major Spills	Environmental hazard – contain spillage.	
	Clear area of personnel and move upwind.	
	Alert Fire Brigade and tell them location and nature of hazard.	
	Wear breathing apparatus and tell them location and nature of hazard.	

Personal Protective Equipment advice is contained in Section 8 of the SDS.

# SECTION 7 HANDLING AND STORAGE

### Precautions for safe handling

Safe Handling	DO NOT allow clothing wet with material to stay in contact with skin.	
	Electrostatic discharge may be generated during pumping - this may result in fire.	
	Ensure electrical continuity by bonding and grounding (earthing) all equipment.	
	Restrict line velocity during pumping to avoid generation of electrostatic discharge (<=1 m/sec until fill pipe submerged	
	to twice its diameter, then <= 7 m/sec).	
	Avoid splash filling.	
	Avoid all personal contact, including inhalation.	
	Wear protective clothing when risk of exposure occurs.	
	Use in a well-ventilated area.	
	Avoid contact with moisture.	
Other information	Store in original containers.	
	Keep containers securely sealed.	
	Store in a cool, dry, well-ventilated area.	
	No smoking, naked lights, heat or ignition sources.	

Conditions for safe storage, including any incompatibilities.

Suitable Container	Metal can or drum.	
	Packaging as recommended by manufacturer.	
	Check all containers are clearly labelled and free from leaks.	
Storage Incompatibility	Glycidyl ethers:	
	May form unstable peroxides on storage in air, light, sunlight, UV light or other ionising radiation, trace metals – inhibito should be maintained at adequate levels.	
	May polymerise in contact with heat, organic and inorganic free radical producing initiators.	
	May polymerise with evolution of heat in contact with oxidisers, strong acids, bases and amines.	
	React violently with strong oxidisers, permanganates, peroxides, acyl halides, alkalis, ammonium persulfate, bromine dioxide.	
	Attack some forms of plastics, coatings, and rubber.	
	Avoid cross contamination between the two liquid parts of product (kit).	
	If two-part products are mixed or allowed to mix in proportions other than manufacturer's recommendation,	
	polymerisation with gelation and evolution of heat (exotherm) may occur.	
	This excess heat may generate toxic vapour.	
	Avoid reaction with amines, mercaptans, strong acids and oxidising agents	

# SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### **Control Parameters**

### **OCCUPATIONAL EXPOSURE LIMITS (OEL)**

### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL
Australia Exposure Standards	silica crystalline - quartz	Quartz (respirable dust)	0.1 mg/m3	Not Available
Australia Exposure Standards	silica crystalline - quartz	Silica - Crystalline	Not Available	Not Available
Australia Exposure Standards	silica crystalline - quartz	Quartz (respirable dust)	0.1 mg/m3	Not Available

#### EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
silica crystalline - quartz	Silica, crystalline-quartz; (Silicon dioxide)	0.075 mg/m3	33 mg/m3	200 mg/m3
bisphenol A/ diglycidyl	Epoxy resin includes EPON 1001,			
ether resin, liquid	1007, 820, ERL-2795	90 mg/m3	990 mg/m3	5,900 mg/m3
bisphenol F glycidyl ether/	Phenol, polymer with			
formaldehyde copolymer	formaldehyde, oxiranylmethyl ether	30 mg/m3	330 mg/m3	2,000 mg/m3

### **Exposure controls**

Appropriate Engineering	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-	
Controls	designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker a ventilation that strategically "adds" and "removes" air in the work environment.	
Personal Protection		
Eye and Face Protection	Safety glasses with side shields. Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.	
Skin Protection	See Hand protection below.	
Hands/Feet protection	The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact. Contaminated leather items, such as shoes, belts and watchbands should be removed and destroyed.	
	The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material cannot be calculated in	
	advance and has therefore to be checked prior to the application. The exact break through time for substances must be obtained from the manufacturer of the protective gloves and must be observed when making a final choice.	
	Personal hygiene is a key element of effective hand care.	

	Leather wear not recommended: Contaminated leather footwear, watch bands, should be destroyed, i.e. burnt, as they cannot be adequately decontaminated When handling liquid-grade epoxy resins wear chemically protective gloves (e.g. nitrile or nitrile-butatoluene rubber), boots and aprons. DO NOT use cotton or leather (which absorb and concentrate the resin), polyvinyl chloride, rubber or polyethylene gloves (which absorb the resin). DO NOT use barrier creams containing emulsified fats and oils as these may absorb the resin; silicone-based barrier creams should be reviewed prior to use.
Body protection	See Other protection below.
Other protection	Overalls PVS Apron PVC protective suit may be required if exposure is severe. Eyewash unit
Thermal hazards	Not Available

# SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Appearance	Beige thin alkaline liquid with strong amine odour; does not mix with water.		
Physical state	Liquid	Relative density (Water = 1)	1.0 -1.1
Odour	Not Available	Partition coefficient n- octanol / water	Not Available
Odour Threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular Weight (g/mol)	Not Applicable
Flash point (°C)	>93	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Solubility in water (g/L)	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

# SECTION 10 STABILITY AND REACTIVITY

Reactivity	See Section 7
Chemical stability	Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See Section 7
Conditions to avoid	See Section 7
Incompatible materials	See Section 7
Hazardous decomposition products	See Section 5

## SECTION 11 TOXICOLOGICAL INFORMATION

### Information on toxicological effects

Inhaled	Inhalation of high concentrations of gas/vapour causes lung irritation with coughing and nausea, central nervous depression	
	with headache and dizziness, slowing of reflexes, fatigue and inco-ordination.	
Ingestion	Accidental ingestion of the material may be damaging to the health of the individual.	
Skin Contact	This material can cause inflammation of the skin on contact	
	in some persons. The material may accentuate any pre-	
	existing dermatitis condition	
	Open cuts, abraded or irritated skin should not be exposed to this material	
	Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful	
	effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.	
Eye	This material can cause eye irritation and damage in some persons.	
Chronic	Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. 55glycethe	

## SECTION 12 ECOLOGICAL INFORMATION

#### Avoid contaminating waterways.

Acute aquatic hazard: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients):>100mg/L Long-term aquatic hazard: This material has been classified as non-hazardous. Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data. Acute toxicity estimate (based on ingredients):>100 mg/L, where the substance is not rapidly degradable and/or BCF < 500 and/or log Kow<4.

Ecotoxicity: No information available

Persistence and degradability: No

information available Bio accumulative

potential: No information available

Mobility: No information available

## SECTION 13 DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Product /Packaging disposal	Containers may still present a chemical hazard/danger when empty. Return to supplier for reuse/recycling if possible. Otherwise, if container cannot be cleaned sufficiently well to ensure that residuals do not remain in container cannot be used to store the same product, then puncture containers, to prever re-use, and bury at an authorised landfill. Where possible retain label warnings and SDS and observe all notices pertaining to the product. Do not allow to wash water from cleaning or process equipment to enter drains. It may be necessary to collect all wash water for treatment before disposal. In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first. Where in doubt contact the responsible authority.
	Where in doubt contact the responsible authority. Recycle wherever possible. Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified. Treat and neutralise at an approved treatment plant. Treatment should involve: Neutralisation with suitable dilute acid followed by burial in a land fill specifically licensed to accept chemical and/or pharmaceutical wastes or incineration in a licensed apparatus(after admixture with suitable combustible material).

# SECTION 14 TRANSPORT INFORMATION

Labels Required

Marine Pollutant	
HAZCHEM	3Z

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS Transport in bulk according to Annex II of MARPOL and the IBC code Not Applicable

## SECTION 15 REGULATORY INFORMATION

Safety, Health and Environmental Regulations / Legislation specific for the substance or mixture

Australia Exposure Standards

Australia Inventory of Chemical Substances (AICS)

Australia Hazardous Substances Information System – Consolidated Lists

Australia Inventory of Chemical Substances (AICS)

International Agency for Research on Cancer (IARC) – Agents classified by the IARC Monographs

International Air Transport Association (IATA) Dangerous Goods Regulations - Prohibited List Passenger and Cargo Aircraft

PORTLAND CEMENT (65997-15-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS

National Inventory	Status
Australia - AICS	Y
Canada - DSL	Y
Canada - NDSL	N ((C12-14)alkylglycidyl ether; xylene; bisphenol A/ diglycidyl ether resin, liquid; silica crystalline - quartz; bisphenol F glycidyl ether/ formaldehyde copolymer)
China - IECSC	Y
Europe - EINEC / ELINCS / NLP	N (bisphenol F glycidyl ether/ formaldehyde copolymer)
Japan - ENCS	N ((C12-14)alkylglycidyl ether; bisphenol A/ diglycidyl ether resin, liquid)
Korea - KECI	Y
New Zealand - NZIoC	Y

Philippines - PIGGS	Y
USA - TSCA	Y
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

# SECTION 16 OTHER INFORMATION

This Safety Data Sheet (SDS) summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and how to safely handle and use the product in the workplace. Since the company cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage review the SDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.