# WESTOX COARSE STUFF PART A

EST O

**BUILDING PRODUCTS** 

Safety Data

**Sheet** 

Date of Issue 27/08/2024 Date of Revision 10/11/2024

1 - IDENTIFICATION				
Product Name	WESTOX COARSE STUFF PART	A		
Synonyms	and and Lime Mortar			
Recommended Use	sed as a traditional plastering and bricklaying mortar			
Company Details Address Phone Email Website	Westlegate Pty Ltd 16 Frost Road Campbelltown NSW 2560 Australi 61 2 4628 5010 info@westox.com www.westox.com	a		
Emergency Contact Point	Australian Poisons Information Ce 24 Hour Service Police, Fire Brigade or Ambulance	13 11 26		
	New Zealand Poisons Information 24 Hour Service NZ Emergency Services	Centre 0800 764 766 111		
2 - HAZARD(S) IDENTIFICATION				
Poisons Schedule	Not Applicable			
Hazard Classification	Skin Corrosion/Irritation Category Serious Eye Damage Category			
Legend: 1. Classification drawn from H	ICIS; 2. Classification drawn from R	egulation (EU) No 1272/2008 - Annex VI		
Pictograms				
Signal Word	DANGER			
Hazard statement(s)	H315 Causes skin irritation. H318 Causes serious eye dam	age.		
Precautionary statement(s) Prevention	on P280 Wear protective gloves/p	rotective clothing/eye protection/face protection		
Precautionary statement(s) Respons	<ul> <li>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P310 Immediately call POISON CENTER or doctor/physician.</li> <li>P321 Specific treatment (see advice on this label).</li> <li>P362 Take off contaminated clothing and wash before reuse.</li> <li>P302+P352 IF ON SKIN: wash with plenty of soap and water.</li> <li>P332+P313 If skin irritation occurs: Get medical advice/attention</li> </ul>			
Precautionary statement(s) Storage	Not Applicable	Not Applicable		
Precautionary statement(s) Disposal	Not Applicable			
3 - COMPOSITION AND INFORMATION ON INGREDIENTS				
Substances				
See section below for composition of	Mixtures			
Mixtures				
Name	CAS Number Cor	ntent %		

graded sand	14808-60-7.	50-80
calcium hydroxide	1305-62-0	15-25
water	7732-18-5	10-30

# 4 - FIRST AID MEASURES

Eye Contact	<ul> <li>If this product comes in contact with the eyes:</li> <li>Immediately hold eyelids apart and flush the eye continuously with running water.</li> <li>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.</li> <li>Continue flushing until advised to stop by the Poison Information Centre or a doctor, or for at least 15 minutes.</li> <li>Transport to hospital or doctor without delay.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	<ul> <li>If skin contact occurs:</li> <li>Immediately remove all contaminated clothing, including footwear.</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>
Inhalation	<ul> <li>If dust is inhaled, remove from contaminated area.</li> <li>Encourage patient to blow nose to ensure a clear passage of breathing.</li> <li>If irritation or discomfort persists seek medical attention.</li> </ul>
Ingestion	<ul> <li>Immediately give a glass of water.</li> <li>First aid is generally not required. If in doubt, contact a Poisons Information Centre or doctor.</li> </ul>

# Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

# **5 - FIREFIGHTING MEASURES**

# **Extinguishing Media**

- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

### Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them the location and nature of the fire.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use firefighting procedures suitable for surrounding area.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> <li>Equipment should be thoroughly decontaminated after use.</li> </ul>
Fire/ Explosion Hazard	<ul> <li>Non-combustible</li> <li>Not considered a significant fire risk, however containers may burn.</li> <li>May emit corrosive fumes.</li> </ul>
Hazchem	Not Applicable
6 - ACCIDENTAL RELEASE	EMEASURES
Demonstration of the second	

# Personal precautions, protective equipment and emergency procedures

See section 8

#### **Environmental precautions**

See section 12

# Methods and material for containment and cleaning up

- Minor Spills
- Clean up all spills immediately.
  Avoid contact with skin and eyes.
- Wear impervious gloves and safety goggles.
- Trowel up/scrape up.
- Placed spilled material in clean, dry, sealed container.
- Flush spill area with water.

#### Major Spills

- Minor hazard. • Clear area of personnel.
  - Alert Fire Brigade and tell them the location and nature of hazard.
  - Control personal contact with the substance, by using protective equipment as required.
  - Prevent spillage from entering drains or waterways.
  - Contain spill with sand, earth or vermiculite.
  - Collect recoverable product into labelled containers for recycling.
  - Absorb remaining product with sand, earth or vermiculite and place in appropriate containers for disposal.
  - Wash area and prevent runoff into drains or water ways.
  - ► If contamination of drains or waterways occurs, advise emergency services.

Westox Coarse Stuff Part A

# 7 - HANDLING AND STORAGE

# Precautions for Safe Handling

	-
Safe Handling	<ul> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> <li>DO NOT enter confined spaces until the atmosphere has been checked.</li> <li>DO NOT allow material to contact humans, exposed food or food utensils.</li> <li>Avoid contact with incompatible materials.</li> <li>When handling, DO NOT eat, drink or smoke.</li> <li>Keep containers securely sealed when not in use.</li> <li>Avoid physical damage to containers.</li> <li>Always wash hands with soap and water after handling.</li> <li>Work clothes should be laundered separately. Launder contaminated clothing before re-use.</li> <li>Use good occupational work practice.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.</li> </ul>
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry, well-ventilated area.</li> <li>DO NOT allow to freeze.</li> <li>Store away from incompatible materials.</li> <li>Protect containers from physical damage and check regularly for leaks.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul>
Conditions for safe stora	age, including any incompatibilities
Suitable container	<ul> <li>Polyethylene or polypropylene container.</li> <li>Packing as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
Storage Incompatibility	Avoid storage with maleic anhydride, ammonium salts, nitromethane, nitroethane, nitropropane, nitroparaffins, phosphorus.

- Store away from incompatible materials.
- Avoid strong acids, acid chlorides, acid anhydrides and chloroformates.

# 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

# **Control parameters**

# **Occupational Exposure Limits (OEL)**

# Ingredient Data

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	graded sand	Silica – Crystalline: Quartz (respirable dust)	0.1 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	graded sand	Quartz (respirable dust)	0.1 mg/m3	Not Available	Not Available	See Silica- Crystalline
Australia Exposure Standards	calcium hydroxide	Calcium hydroxide	5 mg/m3	Not Available	Not Available	Not Available

# **Emergency Limits**

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
graded sand	Silica, crystalline-quartz; (Silicon dioxide)	0.075 mg/m3	33 mg/m3	200 mg/m3
calcium hydroxide	Calcium hydroxide	1 mg/m3	240 mg/m3	1,500 mg/m3

Ingredient	Original IDLH	Revised IDLH
graded sand	25 mg/m3 / 50 mg/m3	Not Available
calcium hydroxide	Not Available	Not Available
water	Not Available	Not Available

# Material Data

For calcium hydroxide:

In the absence of reports of adverse effects from exposure and the recognised lesser alkalinity of the alkaline earths compared with the the alkali hydroxides the relatively high value of TLV-TWA is recommended. This value corresponds in total alkalinity to 5 mg/m3 of sodium hydroxide or 2.5 times the TLV-TWA of sodium hydroxide.

# Appropriate Engineering Controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-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 and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of ventilation system must match the particular process and chemical or contaminant in use.

Employers may need to use multiple types of controls to prevent employee overexposure.

General exhaust is adequate under normal operating conditions. If risk of overexposure exists, wear SAA approved respirator. Correct fit is essential to obtain adequate protection. Provide adequate ventilation in warehouse or closed storage areas. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

Type of Contaminant	Air Speed
solvents, vapours, degreasing etc., evaporating from tank (still in air)	0.25-0.5 m/s (50-100 f/min)
aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)	0.5-1 m/s (100-200 f/min)
direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)	1-2.5 m/s (200-500 f/min)
grinding, abrasive blasting, tumbling, high speed wheel generates dusts (released at high initial velocity into zone of very high rapid air motion)	2.5-10 m/s (500-2000 f/min)

Within each range the appropriate value depends on:

Lower end of the range	Upper end of the range
1: Room air currents minimal or favourable to capture	1: Disturbing room air currents
2: Contaminants of low toxicity or of nuisance value only	2: Contaminants of high toxicity
3: Intermittent, low production	3: High production, heavy use
4: Large hood or large air mass in motion	4: Small hood - local control only

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore, the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min.) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

#### **Personal Protective Equipment**



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. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]

Skin/hands/feet protection

- Wear chemical protective gloves, e.g. PVC
- Wear safety footwear or safety gumboots, e.g. Rubber
- **Body/other protection**
- Overalls.P.V.C. apron.
  - Barrier cream.
  - Skin cleansing cream.
- Eyewash unit.

### **Glove selection index**

Glove selection is based on a modified presentation of the:

# "Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

# WESTOX COARSE STUFF PART A

Rating
GOOD
GOOD
GOOD
POOR
POOR

Good	Best Selection
Satisfactory	May degrade after 4 hours continuous immersion
Poor	Poor to dangerous choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. - \* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

# **Respiratory Protection**

Particulate. (AS/NZS 1716 & 1715, EN 143:2000 & 149:001, ANSI Z88 or national equivalent).

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required.

Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-face Respirator	Powered Air-Respirator
Up to 10 x ES	-AUS P2	-	-PAPR-AUS / Class 1 P2
Up to 50 x ES	-	-AUS / Class 1 P2	-
Up to 100 x ES	-	-2 P2	-PAPR-2 P2 ^

^ - Full-face

Appearance

A (All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide (HCN), B3 = Acid gas or hydrogen cyanide (HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds (below 65 degC)

# 9 - PHYSICAL AND CHEMICAL PROPERTIES

# **General Information**

A stiff mixture of sand and slaked lime mortar; partially miscible with water.

Physical state	Non Slump Paste	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol /water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	Not Applicable	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)	Not Applicable	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Partly miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

Reactivity	See section 7
Chemical stability	Product is considered stable and 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

#### Information on toxicological effects

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in occupational settings.
Ingestion	Considered an unlikely route of entry in commercial/industrial environments. The material has <b>NOT</b> been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence. The material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g. liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality rather than those producing morbidity (disease, ill-health). Gastrointestinal tract discomfort may produce nausea and vomiting. In an occupational setting however, ingestion of insignificant quantities is not thought to be cause for concern.
Skin Contact	Evidence exists, or practical experience predicts, that the material either produces inflammation of the skin in a substantial number of individuals following direct contact, and/or produces significant inflammation when applied to the healthy intact skin of animals, up to four hours, such inflammation being present 24 hours or more after the end of the exposure period. Skin irritation may also be present after prolonged or repeated exposure; this may result in a form of contact dermatitis (nonallergic). The dermatitis is often characterised by skin redness (erythema) and swelling (oedema) which may progress to blistering (vesiculation), scaling and thickening of the epidermis. At the microscopic level there may be intercellular oedema of the spongy layer of the skin (spongiosis) and intracellular oedema of the epidermis. The material may accentuate any pre-existing dermatitis condition.
Eye	When applied to the eye(s) of animals, the material produces sever ocular lesions which are present 24 hours or more after installation.
<b>.</b> .	

# **Chronic** Long-term exposure to the product is not thought to produce chronic effects adverse to health (as classified by EC Directives using animal models); nevertheless, exposure by all routes should be minimised as a matter of course.

	ΤΟΧΙΟΙΤΥ	IRRITATION
WESTOX COARSE STUFF PART A	Not Available	Not Available
graded sand	ΤΟΧΙΟΙΤΥ	IRRITATION
	Oral (rat) LD50: =500 mg/kg <sup>[2]</sup>	Not Available
	ΤΟΧΙΟΙΤΥ	IRRITATION
calcium hydroxide	Dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Eye (rabbit): 10 mg – SEVERE
	Oral (rat) LD50: -500-2000 mg/kg <sup>[2]</sup>	Eye: adverse effect observed (irritating) <sup>[1]</sup>
		Skin: adverse effect observed (irritating) <sup>[1]</sup>
water	ΤΟΧΙΟΙΤΥ	IRRITATION
Water	Oral (rat) LD50: >90000 mg/kg <sup>[2]</sup>	Not Available

Legend: 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.\* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

CALCIUM HYDROXIDE

The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. Industrial bronchitis, on the other hand, is a disorder that occurs as result of exposure due to high concentrations of irritating substance (often particulate in nature) and is completely reversible after exposure ceases. The disorder is characterised by dyspnea, cough and mucus production.

#### WESTOX COARSE STUFF PART A & GRADED SAND & WATER

No significant acute toxicological data identified in literature search.

Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	<ul> <li>Image: A set of the set of the</li></ul>	Reproductivity	×
Serious Eye Damage/Irritation	<b>~</b>	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×
		Westox Coarse Stuff Part A	
		Page <b>6</b> of <b>9</b>	

Data available to make classification

# **12 - ECOLOGICAL INFORMATION**

# Toxicity

	ENDROINT	TEAT BUR ATION (UP)	0050150		0011005
	•	÷		•	•
graded sand	Not Available	Not Available	Not Available	Not Available	Not Available
graded sand	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
		1	•		
Stuff Part A	Not Available	Not Available	Not Available	Not Available	Not Available
Westox Coarse	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE

	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	4-630 mg/L	2
calcium hydroxide	EC50	48	Crustacea	49.1 mg/L	2
	EC50	72	Algae or other aquatic plants	>4- mg/L	2
	NOEC	72	Algae or other aquatic plants	14 mg/L	2

	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
water	LC50	96	Fish	897.520 mg/L	3
	EC50	96	Algae or other aquatic plants	8768.874 mg/L	3

Legend: Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
water	LOW	LOW

#### **Bioaccumulative potential**

Ingredient	Bioaccumulation
water	LOW (LogKOW = -1.38)

#### Mobility in soil

Ingredient	Mobility
water	LOW (KOC = 14.3)

# **13 - DISPOSAL CONSIDERATIONS**

# Waste treatment methods Product / Packaging disposal DO NOT allow 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. Recycle wherever possible or consult manufacturer for recycling options. Consult State Land Waste Management Authority for disposal. Bury residue in an authorised landfill.

Recycle containers if possible, or dispose of in an authorised landfill.

# **14 - TRANSPORT INFORMATION**

Marine Pollutant	NO
HAZCHEM	Not Applicable

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

# **15 - REGULATORY INFORMATION**

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

# GRADED SAND IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Inventory of Chemical Substances (AICS) International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

# CALCIUM HYDROXIDE IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Dangerous Goods Code (ADG Code) - Dangerous Goods List Australia Dangerous Goods Code (ADG Code) - List of Emergency Action Codes Australia Exposure Standards Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Inventory of Chemical Substances (AICS) GESAMP/EHS Composite List - GESAMP Hazard Profiles IMO IBC Code Chapter 17: Summary of minimum requirements IMO MARPOL (Annex II) - List of Noxious Liquid Substances Carried in Bulk International Air Transport Association (IATA) Dangerous Goods Regulations International Maritime Dangerous Goods Requirements (IMDG Code) United Nations Recommendations on the Transport of Dangerous Goods Model Regulations

# WATER IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

IMO IBC Code Chapter 18: List of products to which the Code does not apply

# **National Inventory Status**

National Inventory	Status
Australia – AICS	Yes
Canada – DSL	Yes
Canada – NDSL	No (water; graded sand; calcium hydroxide)
China – IECSC	Yes
Europe – EINEC / ELINCS / NLP	Yes
Japan – ENCS	Yes
Korea – KECI	Yes
New Zealand – NzloC	Yes
Philippines – PICCS	Yes
USA – TSCA	Yes
Taiwan – TCSI	Yes
Mexico – INSQ	Yes
Vietnam – NCI	Yes
Russia - ARIPS	Yes
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

# **16 - OTHER RELEVANT INFORMATION**

 Revision Date
 10/11/2024

 Initial Date
 17/05/2018

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

# **Definitions and abbreviations**

PC – TWA: Permissible Concentration-Time Weighted Average PC – STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Lime IDLH: Immediately Dangerous to Life or Health Concentrations OSF: Odour Safety Factor NOAEL: No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index

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# WESTOX COARSE STUFF PART B

**Safety Data** 

**Sheet** 

**1 - IDENTIFICATION** 

Date of Issue 29/08/2024 Date of Revision 10/09/2024

EST DILLOING PRODUCTS

1 - IDENTIFICATIO	UN				
Product Name		WESTOX COARSE STUFF	PART B		
Chemical Name		kaolin, calcined			
Synonyms		Aluminium Silicate (Pozzolanic Form); WESTOX KAOLIN POZZOLAN			
Recommended Use		Used as a traditional plastering and bricklaying mortar			
Company Details Address	i	Westlegate Pty Ltd 16 Frost Road			
Phone Email Website		Campbelltown NSW 2560 A 61 2 4628 5010 info@westox.com www.westox.com	Nustralia		
Emergency Conta	act Point	Australian Poisons Informat 24 Hour Service Police, Fire Brigade or Amb		13 11 26 000	
		New Zealand Poisons Inforr 24 Hour Service NZ Emergency Services	mation Centre	0800 764 766 111	
2 - HAZARD(S) ID	ENTIFICATION				
Poisons Schedule		Not Applicable			
Hazard Classificati	ion	Not Applicable			
Hazard Pictograms	S	Not Applicable			
Signal Word		NOT APPLICABLE			
Hazard statement(	(S)	Not Applicable			
Precautionary state	ement(s) Prevention	Not Applicable			
Precautionary state	ement(s) Response	Not Applicable			
Precautionary state	ement(s) Storage	Not Applicable			
Precautionary state	ement(s) Disposal	Not Applicable			
3 - COMPOSITION	N AND INFORMATIC	ON ON INGREDIENTS			
Name kaolin pozzolan, as kaolin, calcined oxide	S	CAS Number Not Available 66402-68-4 Not Available	<b>Content %</b> 90-95 0-10		
4 - FIRST AID ME	ASURES				
<ul> <li>Eye Contact</li> <li>If this product comes in contact with eyes:</li> <li>Wash out immediately with water.</li> <li>If irritation continues, seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>					
Skin Contact	<ul> <li>If skin or hair contact occurs:</li> <li>Flush skin and hair with running water (and soap if available)</li> <li>Seek medical attention in event of irritation.</li> </ul>				
Inhalation	<ul> <li>alation</li> <li>If dust is inhaled, remove from contaminated area.</li> <li>Encourage patient to blow nose to ensure a clear passage for breathing.</li> <li>If irritation or discomfort persists seek medical attention.</li> </ul>		athing.		
			Coarse Stuff Part B		

Ingestion

Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

# **5 - FIREFIGHTING MEASURES**

# **Extinguishing Media**

- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

#### Special hazards arising from the substrate or mixture

Fire Incompatibility	None known
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them the location and nature of fire.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use firefighting procedures suitable for surrounding area.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of the fire.</li> <li>Equipment should be thoroughly decontaminated after use.</li> </ul>
Fire/Explosion Hazard	<ul> <li>Non-combustible</li> <li>Not considered a significant fire risk, however containers may burn.</li> <li>Decomposition may produce toxic fumes of: silicon dioxide (SiO2)</li> </ul>
Hazchem	Not Applicable

**6 - ACCIDENTAL RELEASE MEASURES** 

Personal precautions, protective equipment and emergency procedures

See section 8

# **Environmental precautions**

See section 12

# Methods and material for containment and cleaning up

**Minor Spills** 

- Clean up all spills immediately.
- Avoid contact with skin and eyes. Wear impervious gloves and safety glasses.
- •
- Use dry clean up procedures and avoid generating dust. Vacuum up (consider explosion-proof machines designed to be grounded during storage and use).
- Do NOT use air hoses for cleaning.
- Placed spilled materials in clean, dry, sealable and labelled container.
- **Major Spills**
- Clear area of personnel and move upwind. Alert Fire Brigade and tell them the location and nature of the fire.
- Control personal contact with the substance, by using protective equipment and dust respirator.
- Prevent spillage from entering drains, sewage and waterways.
- Avoid generating dust.
- Sweep, shovel up. Recover product wherever possible
- Put residues in labelled plastic bags or other containers for disposal.
- If contamination of drains or waterways occurs, advice emergency services.

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

# 7 - HANDLING AND STORAGE

۲

#### **Precautions for Safe Handling**

Cofe How dlive	
Safe Handling	<ul> <li>Limit all unnecessary personal contact.</li> </ul>
	<ul> <li>Wear protective clothes when risk of exposure occurs.</li> </ul>
	<ul> <li>Use in a well-ventilated area.</li> </ul>
	<ul> <li>Avoid contact with incompatible materials.</li> </ul>
	When handling, DO NOT eat, drink or smoke.
	<ul> <li>Keep containers securely sealed when not in use.</li> </ul>
	<ul> <li>Avoid physical damage to containers.</li> </ul>
	<ul> <li>Always wash hands with soap and water after handling.</li> </ul>
	<ul> <li>Work clothes should be laundered separately.</li> </ul>
	<ul> <li>Use good occupational work practice.</li> </ul>
	<ul> <li>Observe manufacturers storage and handling recommendations contained within this SDS.</li> </ul>
	Atmosphere should be regularly checked against established exposure standards to ensure

against established exposure standards to ensure safe working arly check ۶y conditions are maintained.

Other information

- Store in original containers.
- Keep containers securely sealed.

Westox Coarse Stuff Part B Page 2 of 9

- Store in a cool, dry area protected from environmental extremes.
- Store away from incompatible materials and foodstuff containers.
- Protect containers against physical damage and check regularly for leaks.
- Observe manufacturer's storage and handling recommendations contained within this SDS.
- For major quantities:
  - Consider storage in bunded areas ensure storage areas are isolated from sources of community water (including stormwater, ground water, lakes and streams).
  - Ensure that accidental discharge to air or water is the subject of a contingency disaster management plan; this may require consultation with local authorities.

#### Conditions for safe storage, including any incompatibilities

### Suitable container

Packaging Sizes: 25Kg

- Lined metal can, lined metal pail/can.
- Plastic pail.
- Polyliner drum.
- Packing as recommended by manufacturer.
- Check all containers are clearly labelled and free from leaks.

Storage Incompatibility Avoid contamination of water, foodstuffs, feed or seed

# 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

#### **Control parameters**

# **OCCUPATIONAL EXPOSURE LIMITS (OEL)**

# INGREDIENT DATA

Not Available

# **Emergency Limits**

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
WESTOX COARSE STUFF PART B	Not Available	Not Available	Not Available	Not Available

Ingredient	Original IDLH	Revised IDLH
kaolin, calcined	Not Available	Not Available

### Material Data

Nuisance Dust: 10mg/m<sup>3</sup>

For kaolin:

Kaolin dust appears to have fibrogenic potential even in the absence of crystalline silica. Kaolinosis can exist as simple and complicated forms with the latter often associated with respiratory symptoms. Crystalline silica enhances the severity of the pneumoconiosis.

These "dusts" have little adverse effect on the lungs and do not produce toxic effects or organic disease. Although there is no dust which does not evoke some cellular response at sufficiently high concentrations, the cellular response caused by P.N.O.C.s has the following characteristics: • the architecture of the air spaces remain intact,

- scar tissue (collagen) is not synthesised to any degree,
- tissue reaction is potentially reversible.
- Extensive concentrations of P.N.O.C.s may:

seriously reduce visibility

cause unpleasant deposits in the eyes, ears and nasal passages,

 contribute to skin or mucous membrane injury by chemical or mechanical action, per se, or by the rigorous skin cleansing procedures necessary for their removal. [ACGIH]

This limit does not apply:

• to brief exposures to higher concentrations

• nor does it apply to those substances that may cause physiological impairment at lower concentrations but for which a TLV has as yet to be determined.

This exposure standard applies to particles which

- are insoluble or poorly soluble\* in water or, preferably, in aqueous lung fluid (if data is available) and
- have a low toxicity (i.e. are not cytotoxic, genotoxic, or otherwise chemically reactive with lung tissue, and do not emit ionizing radiation, cause immune sensitization, or cause toxic effects other than by inflammation or by a mechanism of lung overload)

# **Engineering Controls**

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-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 and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of ventilation system must match the particular process and chemical or contaminant in use.

Employers may need to use multiple types of controls to prevent employee overexposure.

Local exhaust ventilation is required where solids are handled as powders or crystals; even when particulates are relatively large, a certain
proportion will be powered by mutual friction.

If in spite of local exhaust an adverse concentration of the substance in the air could occur, respiratory protection should be considered. Such protection might consist of:

(a): particle dust respirators, if necessary, combined with an absorption cartridge;

(b): filter respirators with absorption cartridge or canister of the right type;

Westox Coarse Stuff Part B Page **3** of **9**  (c): fresh-air hoods or masks.

Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

Type of Contaminant	Air Speed
direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)	1-2.5 m/s (200-500 f/min)
grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion)	2.5-10 m/s (500-2000 f/min)

Within each range the appropriate value depends on:

Lower end of the range	Upper end of the range
1: Room air currents minimal or favourable to capture	1: Disturbing room air currents
2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity
3: Intermittent, low production.	3: High production, heavy use
4: Large hood or large air mass in motion	4: Small hood-local control only

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 4-10 m/s (800-2000 f/min) for extraction of crusher dusts generated 2 metres distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

### Personal Protective Equipment



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. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]

Skin/hands/feet protection 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 application.

The exact breakthrough time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.

Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of non-perfumed moisturiser is recommended. Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include:

- frequency and duration of contact,
- chemical resistance of glove material,
- glove thickness and
- dexterity.

Select gloves tested to relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent).

- When prolonged or frequently repeated contact may occur, a glove with protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.20.1 or national equivalent) is recommended.
- When only brief contact is expected, a glove protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.20.1 or national equivalent) is recommended.
  - Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use.
  - Contaminated gloves should be replaced.

As defined in ASTM F-739-96 in any application, gloves are rated as:

- Excellent when breakthrough time >480 min
- Good when breakthrough time >20 min
- Fair when breakthrough time <20 min
- Poor when glove material degrades

For general applications, gloves with a thickness typically greater than 0.35mm, are recommended.

It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times.

Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers' technical data should always be taken into account to ensure selection of the most appropriate glove for the task.

Westox Coarse Stuff Part B Page **4** of **9**  Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example:

- Thinner gloves (down to 0.1mm or less) may be required where a high degree of manual dexterity is required. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of.
- Thicker gloves (up to 3mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential.

Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly, application of a non-perfumed moisturiser is recommended.

Experience indicates that the following polymers are suitable as glove material for protection against undissolved, dry solids, where abrasive particles are not present.

- ▶ polychloroprene
- nitrile rubber
- butyl rubber
- fluoro caoutchouc
- polyvinyl chloride

Gloves should be examined for wear and/or degradation constantly.

**Body/other protection** 

### No special equipment needed when handling small quantities.

- OTHERWISE:
  - Overalls.
- Barrier cream.
- Eyewash unit.

# **Respiratory Protection**

Particulate. (AS/NZS 1716 & 1715, EN 143:2000 & 149:001, ANSI Z88 or national equivalent)

Required Minimum Protection Factor	Half-Face Respirator	Full-face Respirator	Powered Air-Respirator
Up to 10 x ES	P1	-	PAPR-P1
	Airline*	-	-
Up to 50 x ES	Airline**	P2	PAPR-P2
Up to 100 x ES	-	P3	-
		Airline*	-
100+ x ES	-	Airline**	PAPR-P3

\* - Negative pressure demand \*\* - Continuous flow

A (All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide (HCN), B3 = Acid gas or hydrogen cyanide (HCN), E = Sulfur dioxide (SO2), G = Agricultural chemicals, K = Ammonia (NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds (below 65 degC)

- Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.
- The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).
- Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These
  may be government mandated or vendor recommended.
- Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.
- Use approved positive flow mask if significant quantities of dust becomes airborne.

Try to avoid creating dust conditions.

# 9 - PHYSICAL AND CHEMICAL PROPERTIES

#### **General Information**

Appearance	White free flowing powder with no odour; does not mix with water.			
Physical state	Divided Solid	Relative density (Water = 1)	2.5 approx.	
Odour	Not Available	Partition coefficient n-octanol/water	Not Available	
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable	
pH (as supplied)	Not Applicable	Decomposition temperature	Not Available	
Melting point / freezing point (°C)	1800 approx.	Viscosity (cSt)	Not Applicable	
Initial boiling point and boiling range (°C)	Not Applicable	Molecular weight (g/mol)	Not Applicable	
Flash point (°C)	Not Applicable	Taste	Not Available	
Evaporation rate	Not Applicable	Explosive properties	Not Available	
Flammability	Not Applicable	Oxidising properties	Not Available	
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Applicable	
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available	
Vapour pressure (kPa)	Not Applicable	Gas group	Not Available	
Solubility in water	Immiscible	pH as a solution (1%)	5-6.5	
Vapour density (Air = 1)	Not Applicable	VOC g/L	Not Applicable	

# **10 - STABILITY AND REACTIVITY**

Reactivity

Chemical stability

See section 7

Product is considered stable and hazardous polymerisation will not occur.

Possibility of haz	ardous reactions	See section 7
Conditions to ave	oid	See section 7
Incompatible mat	terials	See section 7
Hazardous decomposition products		See section 5
11 - TOXICOLOG	ICAL INFORMATION	
Inhaled	Not normally a hazard due to non-volatile nature of product. Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis, may i further disability if excessive concentrations of particulate are inhaled. If prior damage to the circulatory or nervous systems has occurred or if kidney damage has been sustained, proper screen should be conducted on individuals who may be exposed to further risk if handling and use of the material result in exces exposures.	
Ingestion		of entry in commercial/industrial environments. ea, abdominal irritation, pain and vomiting.
Skin Contact	using animal models). Nevert	o produce adverse health effects or skin irritation following contact (as classified by EC Directives theless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves etting.
Eye	The material may be irritatin	ng to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to
Chronic	<ul> <li>Using Junital models), Nevertheless, global hygerie practicle requires that exposure to dait may be intration and that suitable gis be used in an occupational setting.</li> <li>Exposure to dust may be initiating in the may a given with prolonged contact causing inflammation. Repeated or prolonged exposur initiatism may produce conjunctivitis.</li> <li>Long-term exposure to high dust concentrations may cause changes in lung function (i.e., pneumoconicsis) caused by part less than 0.5 micron penetrating and remaining in the lung. A prime symptom is breathlessness. Lung shadows show on X-A The health hazards associated with bentonite, kaolin, and common day, which are commercially imported day products, as as the related phylositicate minerals commoliante, kaolini, and common day, which are commercially imported day products, as as the related phylositicate minerals on thinkness of the potencies of quarz, kaolinite and montmonilonite, kaolini, and intervite iterature.</li> <li>Clays are chemically all described as aluminosilicates; these are further classified as bentonite, kaolinite and common days sentonites is a rock formed of highly colloidal and plastic clays composed mainly of montmonilonite, a day mineral of the smergroup.</li> <li>Kaolin or china clay is a mixture of different minerals. Its main component is kaolinite, in addition, it frequently contains qui mineral day displase phylosing and plastic clays composed presons, ratained montmonilonite, allows. Informational data securitations containing refractile matter and incommon day and shale are iolite and chorite. Iolite is also a component of ball clays. Iolite do resembles micas.</li> <li>Them the intersitian different minerals. Its main component is kaolinite and the settem settem and the settem settem and the settem setemater settem settem settem settem settem settem settem sette</li></ul>	

Chronic dust inhalation of kaolin, as experienced in mineral extraction, has caused kaolinosis with heavy lung marking, emphysema, and nodular pneumoconiosis.

Evidence of kaolinosis (pneumoconiosis) was found in 9% of 553 Cornish China clay workers who had been exposed to kaolin dust for periods exceeding 5 years, whereas no kaolinosis was observed in workers exposed for less than 5 years. Workers in more heavily exposed jobs of milling, bagging and loading showed a prevalence of kaolinosis rising from 6% in those within between 5- and 15-years exposure to 23% in those exposed for more than 15 years. Workers intermittently and less heavily exposed in the older, outdated drying plants required 25 years of massive exposure before reaching the highest prevalence of 17%. Massive fibrosis was seen in four workers, and six workers needed antituberculosis chemotherapy. Preventative measures instituted include preemployment chest examination and approaches to the problem of dust control. Sheer, G.; Brit. Jnl. Ind. Med. 21, pp 218-225, 1964

Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following.

WESTOX COARSE STUFF PART B	ΤΟΧΙΟΙΤΥ	IRRITATION	
	Oral (rat) LD50: >5000 mg/kg <sup>[2]</sup>	Not Available	
kaolin, calcined	ΤΟΧΙΟΙΤΥ	IRRITATION	
	Dermal (rat) LD50: >5000 mg/kg <sup>[1]</sup>	Not Available	
	Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup>		

Legend: 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.\* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

WESTOX COARSE STUFF PART B & KAOLIN, CALCINED	No significant acute toxicological data identified in literature search.		
Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×

Legend: X – Data either not available or does not fill the criteria for classification Data available to make classification

# **12 - ECOLOGICAL INFORMATION**

#### Toxicity

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WESTOX COARSE STUFF	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
PART B	Not Available	Not Available	Not Available	Not Available	Not Available
	1	1			1
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	>100mg/L	2
kaolin, calcined	EC50	48	Crustacea	>100mg/L	2
	EC50	72	Algae or other aquatic plants	2-500mg/L	2
	EC10	72	Algae or other aquatic plants	33mg/L	2
	NOEC	504	Crustacea	1-mg/L	2

Legend: Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

Bentonite and kaolin have low toxicity to aquatic species, a large number of which have been tested.

Metal-containing inorganic substances generally have negligible vapour pressure and are not expected to partition to air. Once released to surface waters and moist soils their fate depends on solubility and dissociation in water. Environmental processes (such as oxidation and the presence of acids or bases) may transform insoluble metals to more soluble ionic forms. Microbiological processes may also transform insoluble metals to more soluble forms. Such ionic species may bind to dissolved ligands or sorb to solid particles in aquatic or aqueous media. A significant proportion of dissolved/ sorbed metals will end up in sediments through the settling of suspended particles. The remaining metal ions can then be taken up by aquatic organisms.

When released to dry soil most metals will exhibit limited mobility and remain in the upper layer; some will leach locally into ground water and/ or surface water ecosystems when soaked by rain or melt ice. Environmental processes may also be important in changing solubilities. Even though many metals show few toxic effects at physiological pHs, transformation may introduce new or magnified effects. A metal ion is considered infinitely persistent because it cannot degrade further.

The current state of science does not allow for an unambiguous interpretation of various measures of bioaccumulation.

The counter-ion may also create health and environmental concerns once isolated from the metal. Under normal physiological conditions the counter-ion may be essentially insoluble and may not be bioavailable. Environmental processes may enhance bioavailability.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
ingrealent	reisistence. water/son	Fersistence. All

# Bioaccumulative potential

Ingredient Bioaccumulation No Data available for all ingredients

# Mobility in soil

Ingredient

Mobility

No Data available for all ingredients

# 13 - DISPOSAL CONSIDERATIONS

# Waste treatment methods

Product / Packaging disposal

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked. A Hierarchy of Controls seems to be common - the user should investigate:

- Reduction
- Reuse
- Recycling
- Disposal (if all else fails)

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate. In most instances the supplier of the material should be consulted.

- DO NOT allow 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.
- Recycle wherever possible or consult manufacturer for recycling options.
- Consult State Land Waste Management Authority for disposal.
- Bury residue in an authorised landfill.
- Recycle containers if possible, or dispose of in an authorised landfill.

# **14 - TRANSPORT INFORMATION**

Marine Pollutant	NO
HAZCHEM	Not Applicable

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

# **15 - REGULATORY INFORMATION**

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

# KAOLIN, CALCINED IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

National Inventory	Status
Australia – AICS	Yes
Canada – DSL	Yes
Canada – NDSL	No (kaolin, calcined)
China – IECSC	Yes
Europe – EINEC	Yes
Japan – ENCS	No (kaolin, calcined)
Korea – KECI	Yes
New Zealand – NzloC	Yes
Philippines - PICCS	Yes
USA – TSCA	Yes
Taiwan – TCSI	Yes
Mexico – INSQ	Yes

Vietnam – NCI	Yes
Russia - ARIPS	Yes

Legend: Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

# **16 - OTHER RELEVANT INFORMATION**

# Revision Date29/08/2024Initial Date17/05/2018

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

# **Definitions and abbreviations**

PC-TWA: Permissible Concentration-Time Weighted Average PC-STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit. IDLH: Immediately Dangerous to Life or Health Concentrations OSF: Odour Safety Factor NOAEL: No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index

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