Section 1: Identification

Product name: Phoslock Granules/Powder

Other names: Not available

Recommended use: Product used to remove prescribed oxyanions in natural

waterways such as lakes, rivers, estuaries, dams, ponds and wetlands. May also be used in artificial aquatic environments such as for waste and industrial effluents and sewerage, or as a barrier within containment calls/area for leachable wastes.

Supplier details: Phoslock Environmental Technologies Ltd

Unit D, Level 2, Como Centre, 650 Chapel Street

South Yarra Victoria 3141, Australia

Phone: +61 3 9110 0002

Email: enquiries@phoslock.com.au

NZ contact details: Croptech Consulting Ltd

270 Queen Street, Richmond 7020

Phone: +64 27 4949 016

Email: don.wardle@croptech.co.nz

24 hour emergency contact: National Poisons Centre

0800 POISON (0800 764 766)

Section 2: Hazard identification

Product is classified as hazardous according to the Hazardous Substances (Hazard Classification) Notice 2020 of the HSNO Act,

1996.

HSNO Approval: HSR002684

Hazardous classification:

Pictogram:

Skin irritation, Category 2; Eye irritation, Category 2.



Signal word: WARNING

Hazard statements: H315 Causes skin irritation.

H319 Causes serious eye irritation.

P103 Read label before use.

P264 Wash hands and exposed skin thoroughly after handling.

P280 Wear protective gloves and face/eye protection.

Prevention statements: P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P332 + P313 If skin irritation occurs: Get medical advice.
P362 Take off contaminated clothing and wash before reuse.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for

Response statements: several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice.

Storage statement/s: Nil

Disposal statement/s: P501 Dispose of product and container in accordance with local

Regulations. See section 13 for more details.

Additional label Requirements:

Section 3: Composition/information on ingredients

Chemical identity of ingredients with health or environmental hazards:

Ingredient	CAS No.	Proportion w/w	
Lanthanum	7439-91-0	5	
Bentonite*	1302-78-9	95	
* contains crystalline quartz (CAS No 14808-60-7) 2 - 6%			

Section 4: First-aid measures

First aid measures: If medical advice is needed, have product container or label at

hand. For advice contact National Poisons Centre on 0800

POISON [0800 764 766] or a doctor.

Inhalation: Remove person to fresh air and keep at rest in a position

comfortable for breathing until recovered. Get medical advice if

person feels unwell.

Ingestion: Do not induce vomiting. Rinse mouth. Get medical advice if

person feels unwell.

Skin contact: Wash with soap and water. Get medical advice if irritation

Eye contact: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. Get medical

attention if irritation occurs.

First aid facilities: Provide eye baths and safety showers close to areas where

product contact or splashing may occur.

Treat symptomatically. Advice to doctor:

Section 5: Fire-fighting measures

Flammability: Non-flammable. Not a fire or explosion hazard.

apparatus (SCBA).

Appropriate extinguishing

media:

Foam, water spray, dry powder, carbon dioxide (CO2) as

appropriate to surrounding materials.

Smoke and unidentified compounds that may be irritating and

toxic.

Special protective equipment

and precautions for fire-

fighters:

Combustion products:

HAZCHEM code:

Wear protective equipment including self-contained breathing

Section 6: Accidental release measures

Avoid contact with skin and eyes. Wear protective equipment; Personal precautions:

chemical resistant coveralls, boots, impervious gloves, eye

protection. Wear respiratory protection if there is a risk of inhaling

dust.

Environmental precautions: Contain spill.

Procedure for clean up: Use a dry clean up method, e.g. vacuum. Do not generate dust.

Recover/collect into labelled dry container that can be sealed, for

re-use or disposal.

Wash down area after clean up. Avoid runoff into drains. Dispose

of contaminated waste to approved landfill.

Section 7: Handling and storage

Safe handling: Read label before use. Wear personal protective equipment.

Wash hands/exposed skin before rest or meal breaks and at end of shift. Wash contaminated clothing and equipment before re-

use.

Safe storage: Keep out of reach of children. Store in polyethylene or

polypropylene containers. Keep container tightly closed when not in use. Store in cool, well-ventilated area away from foodstuffs,

seeds, fertilisers and human/animal health products.

Section 8: Exposure controls/personal protection

Occupational exposure limits:

Ingredient	Exposure	Form	WES-TWA
Inhalable dust (not otherwise classified)	Inhalation	Dust	10 mg/m ³
Respirable dust (not otherwise classified)	Inhalation	Dust	3 mg/m ³
Silica-crystalline (all forms)*	Inhalation	Dust	0.05 mg/m ³

^{*} α quartz and cristobalite are confirmed carcinogens

Biological limit value: None set as of WorkSafe's 12th edition of WES and BEI values,

published November 2020.

Engineering controls: Use with adequate ventilation, i.e. outdoors.

Respiratory protection: Not required if used outdoors with adequate ventilation. If risk of

inhalation, wear respirator fitted with particulate filter, or wear a

respirator.

Hand protection: Waterproof gloves, e.g. PVC, nitrile.

Eye protection: Chemical goggles, safety glasses with side shields or face shield.

Skin protection: Overalls and closed in boots.

General hygiene: Do not eat, drink or smoke while using. Wash hands and exposed

skin thoroughly with soap and water before meals and after work.

Wash protective clothing/equipment daily after work.

Personal Protection: Further information on specific types of personal protective gear

and related standards is available in Section 16.

Section 9: Physical and chemical properties

(a) Appearance: Light brown granules

(b) Odour: Not available(c) Odour threshold: Not available

(d) pH: 7.0 - 7.5 (2% aqueous dispersion)

(e) Melting point/freezing

point: Not available

(f) Initial boiling point and

boiling range: Not available
(g) Flash point: Not flammable

(h) Flammability (solid,

gas): Not applicable

(i) Upper/lower

flammability or

explosive limits: Not applicable
(j) Vapour pressure: Not available
(k) Vapour density: Not available

(I) Relative density: 1.1

(m) Solubility: Immiscible in water

(n) Partition coefficient:

n-octanol/water: Not available

(o) Auto-ignition

(q)

temperature: Not available

(p) Decomposition

temperature: Not available Kinematic viscosity: Not available

Section 10: Stability and reactivity

Stability of the substance: Stable under normal conditions of storage and use.

Conditions to avoid: Sunlight, incompatible materials.

Incompatible materials: Oxidising agents.

Hazardous decomposition

products: Not known to occur.

Section 11: Toxicological information

Toxicity classifications determined by assessment of the

components in the formulated mixture.

(i) Acute toxicity: Not classified as harmful if ingested, in contact with skin or

inhaled. Ingestion may result in discomfort, nausea, abdominal

irritation, pain, vomiting.

(ii) Aspiration hazard: Not classified as aspirant hazard.

(iii) Respiratory irritation: May be irritating if inhaled.

(iv) Skin corrosion /

irritation: Bentonite is classified as irritating to skin by ECHA.

(v) Serious eye damage /

irritation: Bentonite is classified as serious irritant to eyes by ECHA.

(vi) Respiratory or skin Not classified as a respiratory or contact sensitizer.

sensitisation:

(vii) Germ cell Not classified for mutagenic effects.

mutagenicity: Bentonite contains crystalline-silica which is a confirmed

(viii) Carcinogenicity: carcinogen. Product will only trigger a carcinogen classification if

respirable dust is present.

Not classified for fertility or developmental effects.

(ix) Reproductive toxicity: Not classified for specific target organ toxicity. Inhalation of

(x) Specific organ toxicity: particulates can impair respiratory (lung) function and aggravate

pre-existing respiratory conditions.

Not classified for narcotic effects.

(xi) Narcotic effects:

Toxicological information for

active ingredient:

Not available.

Section 12: Ecological information

Ecotoxicological classifications determined by assessment of the

components in the formulated mixture.

(a) Aquatic toxicity: Not classified.(b) Soil environment: Not classified.

(c) Terrestrial vertebrate

toxicity:

Not classified.

(d) Terrestrial invertebrate

toxicity:

Not classified.

(e) Persistence and

degradability:

No data available.

(f) Potential to be

(g)

bioaccumulative: No data available. Mobility in soil: No data available.

Ecotoxicological information: No data available.

Section 13: Disposal considerations

Product disposal: Dispose of this product only by using according to the label or

through industrial waste service or to an approved landfill.

Container disposal: Recycle water rinsed container if possible or dispose of to ab

appropriate recycling facility. Alternatively, crush and bury in an approved landfill. Do not use container for any other purpose.

Section 14: Transport information

UN number: Non-regulated

UN proper shipping name:

UN class:

Subsidiary risk:

Packing group:

Environmental hazards:

Special precautions:

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Other Information: This product is not classified as a Dangerous Good. Consult the

Land Transport Rule: Dangerous Goods 2005 and NZS 5433:2020 Transport of Dangerous Goods on Land for more

information.

Section 15: Regulatory information

HSNO: Approved substance under the HSNO Act 1996.

Approval number: HSR002684

Water Treatment Chemicals (Subsidiary Hazard) Group Standard

2020.

Tolerable exposure limit /

environmental exposure limit: None set

HSNO controls: See www.epa.govt.nz

Additional controls: None set.

ACVM: Exempt registration under the Agricultural Compounds Veterinary

Medicines Act 1997.

Registration number: Not applicable.

Conditions of registration: See www.foodsafety.govt.nz

Section 16: Other information

Date of issue: 3/08/2021
Reason for reissue: New product
Replaces: Not applicable

Information references: Supplier Safety Data Sheet

NZ EPA Approved hazardous substances with controls

Workplace Exposure Standards and Biological Exposure Indices

Abbreviations: ACVM: Agricultural Chemicals and Veterinary Medicines Group

ECHA: European Chemicals Agency

HSNO: Hazardous substances and New Organisms Act 1996

(HSNO Act)

EPA: Environmental Protection Authority of New Zealand CAS Number: Chemical Abstracts Service Number

LD50: Lethal Dose 50% (Population)

LC50: Lethal Concentration 50% (Population)

WES-TWA: Workplace exposure standards - Time-weighted

average

WES-STEL: Workplace exposure standards – Short-term

exposure limit

Personal Protection

Standards: The following Standards provide general advice regarding safety

clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: **AS/NZS 4501**, Industrial

Eye Protection: AS1336 and AS/NZS 1337, Occupational

Protective Footwear: AS/NZS2210

The data provided in this safety data sheet is based on current knowledge and experience. The purpose of this document is to describe the product in terms of its safety requirements. The above details do not imply any guarantee concerning composition, properties or performance of the product.