

MAGIC MUD™ NATURAL HAND CLEANER

Safety Data Sheet



Blue Pacific
MINERALS

1. Identification of Substance & Company

Product

| | |
|----------------------|---------------------------------|
| Product name | MAGIC MUD™ NATURAL HAND CLEANER |
| Product code | NA |
| HSNO approval | NA – non hazardous |
| Approval description | Non hazardous |
| UN number | NA |
| Proper Shipping Name | NA |
| Packaging group | NA |
| Hazchem code | NA |
| Uses | Animal feed additive |

Company Details

| | |
|-----------|--------------------------------------------------------|
| Company | Blue Pacific Minerals |
| Address | 11-17 Huttloc Drive, Tokoroa 3420 New Zealand |
| Website | www.bpmnz.co.nz |
| Telephone | +64 7 885 0550 |
| Email | info@bpmnz.co.nz |

2. Hazard Identification

Approval

This product is not considered hazardous under the Hazardous Substances and New Organisms Act (HSNO), according to the criteria in the Hazardous substances (Hazard Classification) Notice 2020.

GHS 7 Classes

none

Hazard Statements

SYMBOLS

none

Precautionary Statements

none

3. Composition / Information on Ingredients

| Component | CAS/ Identification | Concentration |
|--------------------------------------------------------------|---------------------|---------------|
| Soft zeolites, soft non crystalline silica and mineral clays | Mixture | Not specified |
| Plant based surfactants | Mixture | Not specified |
| Plant based oil | Mixture | Not specified |

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

4. First Aid

General Information

You should call the National Poisons Centre if you feel that you may have been harmed or irritated by this product. The number is 0800 764 766 (0800 POISON) (24 hr emergency service).

Recommended first aid facilities Ready access to running water is recommended.

Exposure

| | |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Swallowed | Do NOT induce vomiting. Give a glass of water to drink. Contact a doctor if concerned. |
| Eye contact | If product gets in eyes, wash material from them with running water for several minutes. If symptoms persist, seek medical advice. |
| Skin contact | Not applicable (hand cleaner) |
| Inhaled | Generally, inhalation of vapours is unlikely to result in adverse health effects. If coughing, dizziness or shortness of breath is experienced, remove the patient to fresh |

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air immediately. If patient is unconscious, place in the recovery position (on the side) for transport and contact a doctor.

Advice to Doctor

Treat symptomatically

5. Firefighting Measures

| | |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fire and explosion hazards: | There are no specific risks for fire/explosion for this chemical. It is not classed as flammable. |
| Suitable extinguishing substances: | Carbon dioxide, extinguishing powder, foam, fog sprays, water jets. |
| Unsuitable extinguishing substances: | Unknown. |
| Products of combustion: | Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Water. May form toxic mixtures in air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures. |
| Protective equipment: | No special measures are required. |
| Hazchem code: | NA |

6. Accidental Release Measures

| | |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Containment | There is no current legal requirement for containment of this product. In all cases design storage to prevent discharge to storm water. |
| Emergency procedures | Generally, the containers size will limit a large spill from occurring. If a significant spill occurs: Stop leak if safe or necessary. Isolate area. Collect spill, see below. Transfer to container for disposal. Dispose of according to guidelines below (Section 13). |
| Clean-up method | This product is not considered flammable or ecotoxic. Small spills do not require any special clean up method. Larger spills (e.g., greater than 10kg) should be mopped up and collected. |
| Disposal | Mop up and collect recoverable material into labelled containers for recycling or salvage. Recycle containers wherever possible. This material may be suitable for approved landfill. Dispose of only in accord with all regulations. |
| Precautions | No special protective clothing is normally necessary. |

7. Storage & Handling

| | |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storage | Stable under normal use and storage conditions. |
| Handling | Keep exposure to a minimum, and minimise the quantities kept in work areas. See section 8 with regard to personal protective equipment requirements. Do not breathe dust. |

8. Exposure Controls / Personal Protective Equipment

Workplace Exposure Standards

A workplace exposure standard (WES) has not been established by WorkSafe NZ for this product. There is a general limit of 3mg/m³ for respirable particulates and 10mg/m³ for inhalable particulates when limits have not otherwise been established.

| NZ Workplace Exposure Stds | Ingredient | WES-TWA | WES-STEL |
|----------------------------|---------------------------------------------------------|-----------------------|------------------|
| | Zeolite may contain: crystalline silica (respirable) | 0.05mg/m ³ | data unavailable |

Engineering Controls

In industrial situations, it is expected that employee exposure to hazardous substances will be controlled to a level as far below the WES as practicable by applying the hierarchy of control required by the Health and Safety at Work Act (2015) and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016. Exposure can be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify processes or increase ventilation.

Personal Protective Equipment

| | |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General | Personal Protective Equipment (PPE) should not be used as the primary means of exposure protection, except in the event of an accident or emergency situation or where all other means of protection have proven to inadequate. Clean PPE after use or dispose of as appropriate. Store PPE for re-use in a clean place. Regular training on the correct use of PPE should be provided. In particular the correct |
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| | |
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| Eyes | fitting and use of respirators and where applicable the cleaning of respirators should be undertaken. |
| Skin | Avoid contact with eyes. If discomfort is felt (e.g., if pre-existing conditions exist, such as dermatitis, cuts or sensitive skin), discontinue use. |
| Respiratory | Respirator is not required under normal use. Ensure adequate natural ventilation. |

WES Additional Information

Not applicable

9. Physical & Chemical Properties

| | |
|-------------------------------------------|--------------------------------|
| Appearance | viscous paste, tan colour |
| Odour | mild tea tree aroma |
| pH | >10 |
| Vapour pressure | no data |
| Viscosity | no data |
| Boiling point | no data |
| Volatile materials | no data |
| Freezing / melting point | no data |
| Solubility | partially dispersible in water |
| Specific gravity / density | no data |
| Flash point | no data |
| Danger of explosion | no data |
| Auto-ignition temperature | no data |
| Upper & lower flammable limits | no data |
| Corrosiveness | non corrosive |

10. Stability & Reactivity

| | |
|-------------------------------------------|-----------------------------------------------------------------------------------------------|
| Stability | Stable |
| Conditions to be avoided | Containers should be kept closed in order to avoid contamination. Avoid the creation of dust. |
| Incompatible groups | None known |
| Substance Specific Incompatibility | None known |
| Hazardous decomposition products | None known |
| Hazardous reactions | None known |

11. Toxicological Information

Summary

IF IN EYES: direct contact may cause mild transient eye irritation. The powdered minerals may cause mechanical irritation (scratching)

IF ON SKIN: no effect anticipated.

IF INHALED: no effect anticipated.

IF SWALLOWED: may cause nausea and vomiting. .

Supporting Data

| | | |
|----------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute | Oral | Using LD ₅₀ 's for ingredients, the Acute Toxicity Estimate (ATE) (oral) for the mixture is >2,000 mg/kg. |
| | Dermal | Using LD ₅₀ 's for ingredients, the Acute Toxicity Estimate (ATE) (dermal) for the mixture is >2,000 mg/kg. |
| | Inhaled | Using LD ₅₀ 's for ingredients, the Acute Toxicity Estimate (ATE) (inhalation) for the mixture is >5mg/L/4h. |
| Chronic | Eye | This mixture is not classed as an eye irritant. |
| | Skin | This mixture is not considered irritating to skin. |
| | Sensitisation | No ingredient present >0.1% is considered a sensitiser. |
| | Mutagenicity Carcinogenicity | No ingredient present at concentrations > 0.1% is considered a mutagen. Zeolites have been classed by IARC as group 3 – cannot be evaluated as to their carcinogenicity to humans. However, there is evidence that this material does contain quartz and cristobalite. Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (IARC Group 1). Crystalline Silica triggers 6.7A classification (confirmed carcinogen). The carcinogenicity of silica is related to long term (e.g., 10 years) inhalation of very fine particulate (e.g., from sand blasting or |

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Reproductive / Developmental Systemic

dry cutting of quartz containing substrates). Carcinogenicity of silica appears linked to development of silicosis (see systematic below) followed by complications and, eventually lung cancer

No ingredient present at concentrations > 0.1% is considered a reproductive or developmental toxicant or have any effects on or via lactation.

The respirable fraction of the dust of this product is considered to be a target organ toxicant, because of the presence of crystalline silica at greater than 1%. Crystalline silica triggers STOT RE cat 1 classification if it is in the form of a fine respirable dust in an occupational (chronic exposure) setting. This is due to the development of acute silicosis which can occur following exposure to extremely high levels of fine silica dust. Silicosis is a type of pneumoconiosis – a disease of the lung that causes inflammation, scar tissue, lesions and fibrosis in the lung (alveolar). Symptoms include shortness of breath, cough, fever, loss of appetite and cyanosis (bluish skin). Silicosis can occur following prolonged exposure (e.g., 10 years) to relatively high levels of fine crystalline silica dust.

Based on limited animal research, it is possible that repeated inhalation of cellulose fibre dust may lead to inflammation and scarring of the lung.

Aggravation of existing conditions

None known

12. Ecological Data

Summary

This mixture is not considered to be harmful towards aquatic organisms. In all cases prevent run-off to drains, sewers and waterways.

Supporting Data

| | |
|------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Aquatic Bioaccumulation | Using EC ₅₀ 's for ingredients, the calculated EC ₅₀ for the mixture is > 100 mg/L. |
| Degradability | No data |
| Soil | No considered ecotoxic in the soil environment. |
| Terrestrial vertebrate | Not toxic towards terrestrial vertebrates |
| Terrestrial invertebrate | Not toxic towards terrestrial invertebrates |
| Biocidal | Not biocidal |
| Environmental effect levels | No EELs are available for this mixture or ingredients |

13. Disposal Considerations

| | |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Restrictions | There are no product-specific restrictions, however, local council and resource consent conditions may apply, including requirements of trade waste consents. |
| Disposal method | Disposal of this product must comply with the Hazardous Substances (Disposal) Notice 2017 and the requirements of the Resource Management Act for which approval should be sought from the Regional Authority. |
| Contaminated packaging | Disposal of contaminated packaging must comply with the Hazardous Substances (Disposal) Notice 2017 clause 12. Ensure that the package is rendered incapable of containing any substance and is disposed in a manner that is consistent with the requirements of the substance it contained and the material of the package. If possible reuse or recycle packaging. |

14. Transport Information

Land Transport Rule: Dangerous Goods 2005 - NZS 5433:2007

There are no specific restrictions for this product (not a dangerous good).

| | | | |
|---------------------|----|------------------------------|----|
| UN number: | NA | Proper shipping name: | NA |
| Class(es) | NA | Packing group: | NA |
| Precautions: | NA | Hazchem code: | NA |

IMDG

| | | | |
|---------------------|----|------------------------------|---------------|
| UN number: | NA | Proper shipping name: | Not regulated |
| Class(es) | NA | Packing group: | NA |
| Precautions: | NA | EmS | NA |

IATA

| | | | |
|---------------------|----|------------------------------|---------------|
| UN number: | NA | Proper shipping name: | Not regulated |
| Class(es) | NA | Packing group: | NA |
| Precautions: | NA | ERG Guide | NA |

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15. Regulatory Information

This substance is not considered to be hazardous under HSNO.

Specific Controls

Key workplace requirements are:

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| SDS | Not required (non hazardous), but best practice to have the SDS available. |
| Inventory | An inventory of all hazardous substances must be prepared and maintained. |
| Packaging | All hazardous substances should be appropriately packaged including substances that have been decanted, transferred or manufactured for own use or have been supplied |
| Labelling | Must comply with the Hazardous Substances (Labelling) Notice 2017. |
| Emergency plan | Not required. |
| Certified handler | Not required. |
| Tracking | Not required. |
| Bunding & secondary containment | Not required. |
| Signage | Not required. |
| Location compliance certificate | Not required. |
| Flammable zone | Not required. |
| Fire extinguisher | Not required. |

Note: The above workplace requirements apply if only this particular substance is present. The complete set of controls for a location will depend on the classification and total quantities of other substances present in that location.

Other Legislation

In New Zealand, the use of this product may come under the Resource Management Act and Regulations, the Health and Safety at Work Act 2015 and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016, local Council Rules and Regional Council Plans.

16. Other Information

Abbreviations

| | |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approval Code | Approval HSR002521, Animal Nutritional and Animal Care Products Group Standard 2020 Controls, EPA. www.epa.govt.nz |
| CAS Number | Unique Chemical Abstracts Service Registry Number |
| EC₅₀ | Ecotoxic Concentration 50% – concentration in water which is fatal to 50% of a test population (e.g. daphnia, fish species) |
| EPA | Environmental Protection Authority (New Zealand) |
| GHS | Globally Harmonised System of Classification and Labelling of Chemicals, 7 th revised edition, 2017, published by the United Nations. |
| HAZCHEM Code | Emergency action code of numbers and letters that provide information to emergency services, especially fire fighters |
| HSNO | Hazardous Substances and New Organisms (Act and Regulations) |
| IARC | International Agency for Research on Cancer |
| LEL | Lower Explosive Limit |
| LD₅₀ | Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats). |
| LC₅₀ | Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population (usually rats) |
| NZIoC | New Zealand Inventory of Chemicals |
| STEL | Short Term Exposure Limit - The maximum airborne concentration of a chemical or biological agent to which a worker may be exposed in any 15 minute period, provided the TWA is not exceeded |
| STOT RE | System Target Organ Toxicity – Repeated Exposure |
| STOT SE | System Target Organ Toxicity – Single Exposure |
| TWA | Time Weighted Average – generally referred to WES averaged over typical work day (usually 8 hours) |
| UEL | Upper Explosive Limit |
| UN Number | United Nations Number |
| WES | Workplace Exposure Standard - The airborne concentration of a biological or chemical agent to which a worker may be exposed during work hours (usually 8 hours, 5 days a week). The WES relates to exposure that has been measured by personal monitoring using procedures that gather air samples in the worker's breathing zone. |

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References

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| Data | Unless otherwise stated comes from the EPA HSNO chemical classification information database (CCID). |
| Controls | EPA notices, www.epa.govt.nz , Health and Safety at Work (Hazardous Substances) Regulations 2017, www.legislation.govt.nz |
| WES | The latest NZ Workplace Exposure Standards, published by WorkSafe NZ and available on their web site – www.worksafe.govt.nz . |
| Other References: | Suppliers SDS |

Review

| Date | Reason for review |
|-------------|--------------------------|
| April 2022 | Not applicable – new SDS |

Disclaimer

This SDS was prepared by Datachem LTD and is based on our current state of knowledge, including information obtained from suppliers. The SDS is given in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties (as summarised in the SDS) AND HOW THE SUBSTANCE IS USED. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. The GHS 7 classifications for this SDS have been estimated based on general information from the supplier (e.g., hazard, toxicological), full formulation details were not available. This SDS is copyright Datachem and must not be copied, edited or used for other than intended purpose. To contact the SDS author, email info@datachem.co.nz or phone: **+64 21 1040951**.

