

Safety Data Sheet

1. Identification of Substance & Company

Product

Product name Fingerprint Powder Bolton's Dual Surface ETO

Product code BETO-05 HSNO approval HSR002596,

Approval description Laboratory Chemicals and Reagent Kits Group Standard 2020

UN number NA
Proper Shipping Name NA
DG class NA
Packaging group NA
Hazchem code NA

Uses Fingerprint powder

Company Details

Company Aorangi Forensic Supplies Ltd

Address Unit 12

5 Wakefield Street Alicetown Lower Hutt 5010 New Zealand 04 939 1527

Telephone 04 939 1527 Website www.aorangiforensics.co.nz

Emergency Telephone Number: 0800 764 766

2. Hazard Identification

Approval

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002596, Laboratory Chemicals and Reagent Kits Group Standard 2020). The substance has been classified as hazardous according to the criteria in the Hazardous substances (Hazard Classification) Notice 2020.

GHS 7 Classes Hazard Statements

Carcinogen category 2 H351 - Suspected of causing cancer.

STOT* repeated exposure category 2 H373 - May cause damage to organs through prolonged or repeated exposure.

*STOT - System Target Organ Toxicity

SYMBOLS

WARNING



Other Classifications

There are no other classifications that are known to apply.

Precautionary Statements

Prevention P103 - Read label before use.

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P260 - Do not breathe dust.

P264 - Wash hands thoroughly after handling.

P281 - Use personal protective equipment as required.



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Response P308+P313 - IF exposed or concerned: Get medical advice/ attention.

P314 - Get medical advice/attention if you feel unwell.

P405 - Store locked up. Storage

Disposal P501 - Dispose of contents/container in accordance with local/regional/national/international regulation.

3. Composition / Information on Ingredients

Component	CAS/ Identification	Conc (%)
carbon black	1333-86-4	10-20%
Mica	12001-26-2	30-60%
Amorphous silica	7631-86-9	1-10%
Ingredients not contributing to GHS classes	Proprietary	balance

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

General Information

If medical advice is needed, have product container or label at hand. 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	Ready	access	to	running	water	is	recommended.	Accessible	eyewash	is
facilities	recomn	nended.								

Exposure

Swallowed IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell. Rinse

mouth. Do NOT induce vomiting. Give a glass of water to drink.

Eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

This product is non-irritating to skin. No further measures should be required. Skin contact

Inhaled Generally, inhalation of dusts is unlikely to result in acute adverse health effects. If

coughing, dizziness or shortness of breath is experienced, remove the patient to fresh 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: Suitable extinguishing

substances: Unsuitable extinguishing

substances:

Products of combustion:

There are no specific risks for fire/explosion for this chemical. It is non-flammable. Carbon dioxide, extinguishing powder or water jet. Fight larger fires with water jet or alcohol resistant foam.

Unknown.

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: Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat

and eye protection.

Hazchem code: NA



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6. Accidental Release Measures

Containment If greater than 1000kg is stored, secondary containment and emergency plans to

manage any potential spills must be in place. In all cases design storage to prevent

discharge to storm water.

Emergency proceduresThe container size will generally limit the spill size. In the event of a large spillage

(>100kg) alert the fire brigade to location and give brief description of hazard. Stop the source of the leak, if safe to do so. Wear protective equipment to prevent skin, eye and respiratory exposure. Clear area of any unprotected personnel. Prevent by whatever means possible any spillage from entering drains, sewers, or water courses.

(If this occurs contact your regional council immediately).

Collect and seal in properly labelled containers or drums for disposal. If contamination

of crops, sewers or waterways has occurred advise local emergency services.

Disposal Carefully sweep up without creating dust or vacuum 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.

Wear protective equipment to prevent skin and eye contamination and the inhalation

of dusts. Work up wind or increase ventilation.

7. Storage & Handling

Precautions

Storage Storage of harmful substances with food. Store out of reach of

children. Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames. Avoid contact with incompatible substances as

listed in Section 10.

Handling Keep exposure to a minimum, and minimise the quantities kept in work areas. See

section 8 with regard to personal protective equipment requirements.

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	Ingredient	WES-TWA	WES-STEL
Exposure Stds	Carbon black mica	3mg/m³ respirable 3mg/m³ respirable	not established

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 (Control 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 fitting and use of respirators

and where applicable the cleaning of respirators should be undertaken.

Eyes Protective eyewear is not normally necessary when using this product. However, it

always prudent to use protective eyewear if dusts are likely.



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Skin



Avoid repeated or prolonged skin contact. Wear suitable protective clothing, e.g. overalls or aprons, rubber boots and impervious gloves. Rubber gloves are recommended. Protective gloves or suitably resistant material must comply with AS 2161. Replace frequently. Gloves should be checked for tears or holes before use. Protective clothing must comply with AS 2919, AS3765.1 or AS3765.2. PVC or rubber boots must comply with AS/NZS 2210.2 and selected and maintained in accordance with AS/NS2210.1. Remove protective clothing and wash exposed areas with soap and water prior to eating, drinking or smoking. Wash hands after handling.

Respiratory

A respirator when airborne concentrations approach the WES (section 8). Respirators must have filters appropriate to the duty and comply with AS/NZS1716 and selected, used and maintained in accordance with AS/NS 1715. Use a respirator with a particulate filter. If using a respirator, ensure that the cartridges are correct for the potential air contamination and are in good working order. Fit testing and clear guidelines and training for use and maintenance of PPE are necessary.

WES Additional Information

Not applicable

9. Physical & Chemical Properties

Appearance solid powder, black Odour not specified **Odour Threshold** no data no data no data Freezing/melting point **Boiling Point** no data **Flashpoint** non flammable **Flammability** non flammable Upper & lower flammable limits no LEL or UEL Vapour pressure no data Vapour density no data Specific gravity/density no data

Solubility insoluble in water

Partition coefficientno dataAuto-ignition temperatureno dataDecomposition temperatureno dataViscosityno dataParticle Characteristicsno data

10. Stability & Reactivity

Stability Stable

Conditions to be avoided Containers should be kept closed in order to avoid contamination. Keep from extreme

heat, ignition sources and open flames. Keep from moisture.

Incompatible groups Oxidisers
Substance Specific none known
Incompatibility

Hazardous decomposition

products

Oxides of carbon

Hazardous reactions none known



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11. Toxicological Information

Summary

IF SWALLOWED: may cause irritation of the gastrointestinal tract.

IF IN EYES: may cause mild eye irritation (dust)

IF ON SKIN: may dry out skin.

IF INHALED: may cause respiratory tract irritation.

CHRONIC TOXICITY: The mixture is considered to be a suspected carcinogen, because at least one of the ingredients (Carbon black) is possibly carcinogenic to humans (Group 2B). [IARC]

Supporting Data

Acute Oral Using LD50's for ingredients, the Acute Toxicity Estimate (ATE) (oral) for the mixture

is >2,000 mg/kg.

Aspiration This mixture is not considered an aspiration hazard.

Dermal Using LD50's for ingredients, the Acute Toxicity Estimate (ATE) (dermal) for the

mixture is >2,000 mg/kg.

Inhaled Using LD₅₀'s for ingredients, the Acute Toxicity Estimate (ATE) (inhalation) for the

mixture is >5mg/L/4h.

Eye The mixture is not considered to be an eye irritant.

The mixture is not considered to be a skin irritant.

Skin The mixture is not considered to be a skin irritant.

Chronic Sensitisation The mixture is not considered to be a contact or re

Sensitisation The mixture is not considered to be a contact or respiratory sensitizer, **Mutagenicity** No ingredient present at concentrations > 0.1% is considered a mutagen.

CarcinogenicityThe mixture is considered to be a suspected carcinogen, because at least one of the ingredients (Carbon black) is possibly carcinogenic to humans (Group 2B). [IARC]

Reproductive / No evidence of reproductive or developmental toxicity.

Developmental Systemic

emic Mica is present at >1% is suspected of causing damage through prolonged or

repeated exposure.

Aggravation of None known.

existing conditions

12. Ecological Data

Summary

This mixture is not considered ecotoxic, however in all cases prevent run-off to drains, sewers and waterways.

Supporting Data

Aquatic Using EC₅₀'s for ingredients, the calculated EC₅₀ for the mixture is > 100 mg/L.

Bioaccumulation No data
Degradability No data

Soil No evidence of soil toxicity

Terrestrial vertebrate See acute toxicity

Terrestrial invertebrate No evidence of toxicity towards terrestrial invertebrates.

Biocidal no data

13. Disposal Considerations

RestrictionsThere 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. The substance must be treated and therefore

rendered non-hazardous before discharge to the environment.

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.



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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:NAProper shipping name:NAClass(es)NAPacking group:NAPrecautions:NAHazchem 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

15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR002596, Laboratory Chemicals and Reagent Kits Group Standard 2020. All ingredients appear on the New Zealand Inventory of Chemicals NZIoC.

Specific Controls

Labelling

Key workplace requirements are:

SDS To be available within 10 minutes in workplaces storing any quantity.

Inventory An inventory of all hazardous substances must be prepared and maintained.

Packaging All hazardous substances should be appropriately packaged including substances

decanted, transferred or manufactured for own use or have been supplied

Must comply with the Hazardous Substances (Labelling) Notice 2017.

Emergency plan Required if > 10000kg is stored.

Certified handler Not required.
Tracking Not required.

Bunding & secondary containment Not required. (non pooling substance)

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.



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16. Other Information

Abbreviations

Approval Code Approval HSR002596, Laboratory Chemicals and Reagent Kits 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)

Globally Harmonised System of Classification and Labelling of Chemicals, 7th 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 RESystem 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)

UELUpper Explosive LimitUN NumberUnited 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.

References

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

February 2025 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 likely GHS 7 classifications for this SDS have been estimated based on general information from the supplier (e.g., hazard, toxicological). 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.

