

Date of issue: 26 August 2020
Revised by: Simonne Moses - HSNO Consultant SDS No: 1

Safety Data Sheet

Fingerprint Powder Bolton's White

Classified as: Hazardous according to the EPA Hazardous Substances (Minimum Degrees of Hazard) Notice 2017.

Section 1: SUBSTANCE AND SUPPLIER DETAILS

Product Name: Fingerprint Powder Bolton's White

Supplier: Aorangi Forensic Supplies Ltd
20 Graham Street
Petone
Wellington
New Zealand

Phone: +64 4 939 1527

Recommended Use: Fingerprint Powder

In Case of Emergency Contact:

CHEMCALL: 0800 CHEMCALL (243 622)

Section 2: HAZARDS IDENTIFICATION

Not classified as a Dangerous Good for Transport.

Classified as hazardous according to criteria in the EPA Hazardous Substances (Minimum Degrees of Hazards) Notice 2017.

Classified under the group standard "Laboratory Chemicals and Reagent Kits Group Standard 2017"

HSNO APPROVAL NUMBER: **HSR002596**

HSNO CLASSIFICATIONS: 6.5B – Contact sensitiser
9.1D – Slightly harmful in the aquatic environment

GHS Classification: Skin sensitisation – Category 1
Aquatic toxicity, acute - Category 3

Hazard Statements:

H317 May cause an allergic skin reaction
H401 Toxic to aquatic life

GHS Pictograms:



WARNING

PREVENTION STATEMENTS:

- P103 – Read label before use.
- P261 – Avoid breathing dust.
- P272 – Contaminated work clothing should not be allowed out of the workplace.
- P273 - Avoid release to the environment.
- P280 - Wear protective gloves.

RESPONSE STATEMENTS:

- P302 + P352 – IF ON SKIN: Wash with plenty of soap and water.
- P333 + P313 – If skin irritation or rash occurs: Get medical advice/attention.
- P363 – Wash contaminated clothing before reuse.
- P321 – Specific treatment (see first aid instructions on this label).

DISPOSAL

- P501 - In accordance with the EPA Hazardous Substances (Disposal) Notice 2017. Refer to Section 13 of this SDS.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Main Component	CAS Number	Concentration
Titanium dioxide	13463-67-7	30 - 60%
Rosin	8050-09-7	30 - 60%

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Section 4: FIRST AID MEASURES

Workplace Facilities Required:	Eye wash facilities should be provided.
If Inhaled:	Remove to fresh air. Seek medical attention if symptoms persist.
In Contact with Eye:	Hold eyes open, flush with water for at least 15 minutes. Seek medical attention if irritation develops and persists.
In Contact with Skin:	Wash skin with plenty of water, while removing contaminated clothing and shoes. Wash contaminated clothing before re-use. Seek medical attention if skin irritation develops and persists.
If Swallowed:	DO NOT INDUCE VOMITING. Rinse mouth. Give small quantities of water. Never give

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anything by mouth to an unconscious person. Seek medical attention. If vomiting occurs, keep head below hips to prevent aspiration to lungs.

Advice to Doctor: Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

Fire/Explosion Hazard: Product is not flammable or combustible. However, this product can produce a dust explosion if present as a fine dust in sufficient quantity.

Suitable Extinguishing Media: Use carbon dioxide, dry chemical, water spray, fog, or foam. Do not use water jet.

Precautions in Connection with Fire: May give off noxious fumes in a fire containing oxides of carbon.

Advice for firefighters: Wear full firefighting gear and self-contained breathing apparatus. Fire exposed containers may be cooled with water spray. Water spray or fog may be used to prevent dust cloud formation. Prevent product from entering drains and waterways.

Section 6: ACCIDENTAL RELEASE MEASURES

An emergency response plan is required under Part 5 of the Health and Safety at Work (Hazardous Substances) Regulations 2017 when held in quantities greater than 1,000kg.

Precautions: Clear area of all unprotected personnel. Keep unnecessary and unprotected personnel from entering area. Remove sources of ignition. Avoid generating dust. Avoid release to the environment. If product does enter waterways then inform local pollution authorities.

Suitable Protective Equipment: Emergency responders must use personal protective equipment, including gloves, protective overalls and footwear, safety goggles or face shield and respiratory protection if there is a risk of inhaling dust.

Spill or Leak Procedures. Contain the spill. Sweep up material, spill may be dampened down to avoid generating dust, or use a dustless collection method such as a vacuum. Collect spilled material and place in a suitable, closable chemical waste container. Ensure waste container is properly labelled.

Waste Disposal Methods: Dispose of as per Section 13.

Emergency preparation: Ensure there is appropriate and adequate personal protective equipment, trained personnel and clean up materials for management of accidental release.

Section 7: HANDLING AND STORAGE

Precautions for Safe Handling: Avoid contact with skin and eyes. Do not breathe dust. Do not eat drink or smoke when using this product. Remove contaminated clothing and wash hands and face before entering eating areas. Apply good housekeeping measures, ensuring dust does not accumulate on surfaces where it may cause a dust cloud.

Storage: Keep in original container or a suitable alternative made of compatible material. Keep container tightly closed when not in use. Store in a cool, dry, well-ventilated

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area.

Site Storage Requirements: Site Signage will be required when quantities exceed 10,000kg.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Workplace Exposure Standards NZ:	No Workplace Exposure Standards have been established for this product. The following exposure standards have been set for the constituent: Titanium dioxide – TWA 10 mg/m ³
Engineering Controls:	Eyewash facilities and standard washing up facilities should be provided in the work area where there is a risk of exposure to eyes and skin. If use generates dust, use engineering controls such as local exhaust ventilation to ensure workers are not exposed to levels exceeding the exposure standards.
Personal Protective Equipment:	Avoid contact with the skin and eyes. Avoid inhaling dust.
Hand protection:	Wear protective gloves that are resistant to the product, e.g. PVC. Refer to Australian and New Zealand Standard AS/NZS 2161 for protective gloves.
Skin and body protection:	Use protective clothing. Remove any contaminated clothing to avoid prolonged contact with the skin. Wash work clothes regularly. Refer to Australian and New Zealand Standard AS/NZS 4501 for occupational protective clothing.
Eye protection:	Use safety glasses with side shields or safety goggles to protect eyes. Refer to AS/NZS 1336 for suitable eye and face protection.
Respiratory protection:	Where there is inadequate engineering controls, use respiratory protection fitted with a replaceable dust/particulate filter. Refer to AS/NZS 1715 and AS/NZS 1716 for suitable respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Other information:	PPE selected must be impervious to the substance. Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating, drinking or smoking. Handle in accordance with safe industrial hygiene practices.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Description:	Solid, powder	Colour:	White
Odour:	Not available	Odour Threshold:	Not available
pH (20°C):	Not available	Solubility (water, 20°C):	Insoluble
Melting point:	Not available	Boiling Point:	Not available
Flammability:	Non-flammable	Flash Point:	Not applicable
UEL/LEL:	Not applicable	Vapour Pressure (20°C):	Not available
Evaporation Rate:	Not available	Vapour Density:	Not available
Decomposition Temp:	Not available	Autoignition Temp:	Not available
Relative Density:	Not available	Bulk Density (20°C):	Not available

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Partition Coefficient: n-octanol/water Not available **Viscosity:** Not available

Section 10: STABILITY AND REACTIVITY

Stability: Stable under normal dry storage conditions.
Reactivity: Reacts with strong oxidising agents.
Conditions to Avoid: Formation of dust. Heat, sparks, open flames and other sources of ignition.
Incompatibility: Strong oxidising agents.
Hazardous Decomposition: Decomposes to form oxides of carbon.

Section 11: TOXICOLOGICAL INFORMATION

Acute Exposure

Acute Toxicity: LD50 oral > 5000 mg/kg.
LD50 dermal > 5000 mg/kg.
LC50 inhalation >5 mg/L (dust)

Inhalation: Inhalation of dust may cause respiratory irritation. May aggravate existing conditions, e.g. asthma.

Ingestion: Not expected to be harmful if swallowed. Ingestion of large quantities may cause pain, nausea, vomiting and diarrhoea.

Skin Contact: Not expected to be a skin irritant. May cause mechanical irritation.

Eye Contact: Not expected to be a chemical eye irritant. Dust in eyes will cause mechanical irritation.

Sensitiser: Product is a contact sensitiser. May cause eczema or contact dermatitis.

Chronic Exposure:

Mutagen/Carcinogen/Reproductive Toxicant No chronic toxicity effects expected.

Specific Target Organ Systemic Toxicity: No known toxic or harmful effects on human target organs or systems.

Toxicity data is based on hazardous ingredient information and information in the EPA Chemical Classification and Identification Database.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: LC/EC₅₀ > 1 - ≤ 10 mg/L.

Product is toxic to aquatic life but is not expected to have lasting effects in the environment. Avoid losses of undiluted product to the environment wherever

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possible.

Persistence/degradability: Rapidly degradable

Bioaccumulation: Not expected to bioaccumulate.

Mobility: Product is insoluble in water.

Ecotoxicity data is based on hazardous ingredient information.

Section 13: DISPOSAL CONSIDERATIONS

Disposal: Recycle and reuse wherever possible. Dispose of waste product via an approved waste disposal contractor. Do not flush down drains or allow to enter waterways.

Disposal of Packaging: Packaging may contain product residues and should be treated as hazardous. Dispose of packaging via an approved waste disposal contractor.

Section 14: TRANSPORT INFORMATION

Not classified as a Dangerous Good for transport in accordance with NZS5433:2012, IMDG or IATA.

Ensure transportation methods prevent leakage from packages and collapsing loads.

Section 15: REGULATORY INFORMATION

Group Standard Allocation: Laboratory Chemicals and Reagent Kits Group Standard 2017

HSNO Approval Code: HSR002596

HSNO Classifications: 6.5B Contact sensitiser
9.1D Slightly harmful in the aquatic environment

This substance triggers:	Compliance Certificate	N/A
	Certified Handler	N/A
	Emergency Response Plan	1,000L
	Secondary Containment	1,000L
	Signage	10,000L

This substance is not required to be Tracked. All workplace personnel handling this substance are required to be trained on the safe handling and PPE requirements for the hazards associated with this substance.

Section 16: OTHER INFORMATION

The information provided in this Safety Data Sheet relates only to the specific material designated herein. This Safety Data Sheet summarises our best knowledge of the health and safety hazard information of the product and how to safely handle the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including its use in conjunction with

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other products.

This substance is approved under HSNO for use as a fingerprint powder for Forensic purposes. All reasonable care has been taken to ensure that the information and advice contained herein are from sources believed to be reliable and to represent the most up-to-date knowledge available at the date given in Section 16. No liability is assumed for any damages related to the use or misuse of this substance.

All chemical materials may present unknown hazards as people have varying degrees of sensitivity to chemicals. Therefore, this product should be used with caution. The information herein is given in good faith, but no warranty, express or implied is made.

SDS Issued: 26/08/2020

Reason for Revision: Update to New Zealand regulatory requirements.

References:

EPA NZ Chemical Classification and Information Database
EPA Guide: Assigning a Hazardous Substance to a Group Standard, 2014

END OF SAFETY DATA SHEET