

Safety Data Sheet



Hazardous, NON-Dangerous Goods

SDS 443c

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: **Monopur Topcoat Satin Part C**

Recommended use: Component of multicomponent industrial coatings - Industrial use

Supplier: Equus Industries Ltd
Company No.:
Street Address: Sheffield Street, Riverlands
PO Box 601
Blenheim
Telephone: +64 3 578 0214
Email: info@equus.nz

Emergency Telephone number: **National Poisons Centre 0800 764 766**

2. HAZARDS IDENTIFICATION

This material is hazardous according to the criteria of EPA New Zealand GHS 7.

EPA Group Standard: HSR002545 - Construction Products (Carcinogenic) Group Standard 2020



Signal Word

Danger

Hazard Classifications

Skin Corrosion/Irritation - Category 2
Serious Eye Damage/Irritation - Category 1
Sensitisation - Skin - Category 1
Carcinogenicity - Category 1
Specific Target Organ Toxicity following Single Exposure - Category 2
Specific Target Organ Toxicity following Repeated Exposure - Category 2

Hazard Statements

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H350 May cause cancer .
H371 May cause damage to organs.
H373 May cause damage to organs through prolonged or repeated exposure.

Prevention Precautionary Statements

P102 Keep out of reach of children.
P103 Read carefully and follow all instructions.
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust, fume, gas, mist, vapours or spray.
P264 Wash hands, face and all exposed skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P272 Contaminated work clothing should not be allowed out of the workplace.
P281 Use personal protective equipment as required.

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Response Precautionary Statements

P101	If medical advice is needed, have product container or label at hand.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor/insert appropriate source of emergency medical advice.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362	Take off contaminated clothing.
P363	Wash contaminated clothing before reuse.

Storage Precautionary Statement

P405	Store locked up.
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Disposal Precautionary Statement

P501	Dispose of contents/container in accordance with local, regional, national and international regulations.
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DANGEROUS GOOD CLASSIFICATION

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

3. COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS NO	PROPORTION
Cement, portland, chemicals	65997-15-1	50-75 %
Calcium hydroxide (Ca(OH) ₂)	1305-62-0	10-25 %
Iron oxide (Fe ₂ O ₃)	1309-37-1	2.5-10 %
Sulfuric acid, calcium salt (1:1)	7778-18-9	2.5-10 %
Calcium oxide	1305-78-8	2.5-10 %
Limestone	1317-65-3	1.0-2.5 %
Quartz (SiO ₂)	14808-60-7	1.0-2.5 %
Ingredients determined to be Non-Hazardous		Balance
		100%

4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

Inhalation: Move to fresh air. Consult a physician after significant exposure.

Skin Contact: Use a mild soap if available. Wash off with soap and plenty of water.

Eye contact: Rinse thoroughly with plenty of water, also under the eyelids. Remove contact lenses. If eye irritation persists, consult a specialist.

Ingestion: Gently wipe or rinse the inside of the mouth with water. Give small amounts of water to drink. Never give anything by mouth to an unconscious person

PPE for First Aiders: Wear overalls, gloves, safety glasses, dust mask. Available information suggests that gloves made from should be suitable for intermittent contact. However, due to variations in glove construction

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and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Notes to physician: Treat symptomatically. Effects may be delayed. Can cause corneal burns. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.4.2 Most important symptoms and effects, both acute and delayed. Harmful by inhalation.4.3 Indication of any immediate medical attention and special treatment needed. No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

5. FIRE FIGHTING MEASURES

Hazchem Code: Not applicable.

Suitable extinguishing media: If material is involved in a fire use water fog (or if unavailable fine water spray), alcohol resistant foam, standard foam, dry agent (carbon dioxide, dry chemical powder).

Specific hazards: Combustible material.

Fire fighting further advice: On burning or decomposing may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion or decomposition.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS

Pick up and transfer to properly labelled containers. No special environmental precautions required. After cleaning, flush away traces with water.

LARGE SPILLS

Pick up and transfer to properly labelled containers. No special environmental precautions required. After cleaning, flush away traces with water.

Dangerous Goods - Initial Emergency Response Guide No: Not applicable

7. HANDLING AND STORAGE

Handling: Use only in area provided with appropriate exhaust ventilation. Provide sufficient air exchange and/or exhaust in work rooms. Wear personal protective equipment. Avoid dust formation. Protect from moisture.

Storage: Keep tightly closed in a dry and cool place

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits:

	TWA		STEL		NOTICES
	ppm	mg/m3	ppm	mg/m3	
Calcium hydroxide		5			
Calcium oxide		2			
Calcium sulphate (Gypsum, Plaster of Paris)		10			
Cement (Portland cement)		31(r)			dSEN; r

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Iron oxide dust and fume (Fe₂O₃), as Fe
Silica-Crystalline (all forms)

5
0.05(r)

w
carc cat 1; r;
†

As published by WorkSafe New Zealand.

WES-TWA (Workplace Exposure Standard - Time-weighted average). The average airborne concentration of a substance calculated over an eight-hour working day.

WES-Ceiling (Workplace Exposure Standard - Ceiling). A concentration that should not be exceeded at any time during any part of the working day.

WES-STEL (Workplace Exposure Standard - Short-term exposure limit). The 15-minute time weighted average exposure standard. Applies to any 15-minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Exposures at concentrations between the WES-TWA and the WES-STEL should be less than 15 minutes, should occur no more than four times per day, and there should be at least 60 minutes between successive exposures in this range.

ppm Parts of vapour or gas per million of air by volume.

mg/m³ Milligrams of substance per cubic metre of air.

r The value for respirable dust.

w A range of airborne contaminants are associated with gas and arc welding. The type of metal being welded, the electrode employed and the welding process will all influence the composition and amount of fume.
Gaseous products such as oxides of nitrogen, carbon monoxide and ozone may also be produced. Exposure assessment of welding fume should be based on measurement of known or expected components in welding fume which would include metal constituents as well as shielding gases and contaminants produced during combustion of surface coatings and cleaning products, where present.

carc cat 1 Known or presumed human carcinogen.

sen Sensitiser.

dsen Dermal sensitiser.

† This is an interim WES and WorkSafe considers it may not be protective for all workers. As such, caution should be applied in using the WES for health risk assessment. WorkSafe intends to lower the WES in the future.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

Biological Limit Values: As per the WorkSafe New Zealand the ingredients in this material do not have a Biological Limit Allocated.

Engineering Measures: Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use only in well ventilated areas. Avoid generating and inhaling dusts. Use with local exhaust ventilation or while wearing dust mask. When using this material, use explosive dust handling controls to minimise airborne dust and eliminate all ignition sources. Keep away from heat, hot surfaces, sparks and flame; prevent the build-up of static charges with appropriate earthing of equipment and personnel.

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Personal Protection Equipment: OVERALLS, GLOVES, SAFETY GLASSES, DUST MASK.

Personal protective equipment (PPE) must be suitable for the nature of the work and any hazard associated with the work as identified by the risk assessment conducted.

Wear overalls, gloves, safety glasses, dust mask. Available information suggests that gloves made from should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

RECOMMENDATIONS FOR CONSUMER USE:

RESPIRATORY PROTECTION: Effective dust mask.**EYE PROTECTION:** Safety glasses with side-shields.**HAND PROTECTION:** Protective gloves. Long sleeved clothing. Remove and wash contaminated clothing before re-use.**OTHER PROTECTIVE EQUIPMENT:** No Information**ENGINEERING CONTROLS:** Ensure adequate ventilation, especially in confined areas

Hygiene measures: Wash hands before breaks and at the end of workday. Do not breathe dust. When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Base Units:	Kilogram
Form:	Powder
Odour:	Slight
Solubility:	Not determined
Solubility in water:	Not Determined
Specific Gravity:	0.092
Density:	~1.03
Relative Vapour Density (air=1):	Not determined
Vapour Pressure:	Not determined
Flash Point (°C):	999
Explosion/Flammability Limits:	Not determined
Autoignition Temperature (°C):	Not determined
Melting Point/Range (°C):	Not determined
Pour Point/Range (°C):	Not determined
Boiling Point/Range (°C):	N.D. - N.D
Decomposition Point (°C):	Not determined
Sublimation Point (°C):	Not determined
Dropping Point (°C):	Not determined
pH:	Not Determined
Viscosity:	Not Determined
Surface Tension:	Not Determined
Evaporation Rate (n-Butyl acetate=1):	Not Determined
Partition Coefficient:	Not Determined
Total VOC (g/Litre):	0
Odour Threshold:	Not Determined
Explosive properties:	Not Determined
Oxidising properties:	Not Determined
% Volatile by Volume:	Not Determined
Molecular Formula:	Not Determined
Molecular Weight:	Not Determined

(Typical values only - consult specification sheet)
N Av = Not available, N App = Not applicable

10. STABILITY AND REACTIVITY

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Chemical stability: Stable under normal conditions.

Conditions to avoid: No Information

Incompatible materials: Do not store near acids. Strong oxidizing agents.

Hazardous decomposition products: No hazardous decomposition products are known. Hydrogen fluoride

Hazardous reactions: No reactivity hazards known under normal storage and use conditions.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Acute Effects

Inhalation: This product may contain Quartz (silicon dioxide), which is listed by IARC as a known carcinogenic to humans (Group 1). This classification is relevant when exposed to Quartz (silicon dioxide) in dust or powder form only, including cured product that is subject to sanding, grinding, cutting, or other surface preparation activities.

Skin contact: No Information A skin sensitiser. Repeated or prolonged skin contact may lead to allergic contact dermatitis.

Ingestion: No Information

Eye contact: No Information Exposure to the dust may cause discomfort due to particulate nature. May cause physical irritation to the eyes.

Acute toxicity

Inhalation: This material has been classified as not hazardous for acute inhalation exposure. Acute toxicity estimate (based on ingredients): $LC_{50} > 5.0$ mg/L for dust.

Skin contact: This material has been classified as not hazardous for acute dermal exposure. Acute toxicity estimate (based on ingredients): $LD_{50} > 2,000$ mg/Kg bw

Ingestion: This material has been classified as not hazardous for acute ingestion exposure. Acute toxicity estimate (based on ingredients): $LD_{50} > 2,000$ mg/Kg bw

Calcium hydroxide LD_{50} (Rat): 340 mg/kr (Method: Oral)
Red Iron Oxide LD_{50} (Rat): >2000 mg/kg (Method: Oral)
Quartz (Silicon Dioxide) LD_{50} (Rat): >2000 mg/kg (Method: Oral)

Corrosion/Irritancy: Eye: this material has been classified as a Category 1 Hazard (irreversible effects to eyes). Skin: this material has been classified as a Category 2 Hazard (reversible effects to skin).

Sensitisation: Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as a Category 1 Hazard (skin sensitiser).

Aspiration hazard: This material has been classified as not an aspiration hazard.

Specific target organ toxicity (single exposure): This material has been classified as a Category 2 Hazard.

Chronic Toxicity

Mutagenicity: This material has been classified as non-hazardous.

Carcinogenicity: This material has been classified as a Category 1 - Substances that are known or presumed

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human carcinogens.

Reproductive toxicity (including via lactation): This material has been classified as non-hazardous.

Specific target organ toxicity (repeat exposure): This material has been classified as a Category 2 - Substances that are harmful to human target organs or systems.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Acute aquatic hazard: No information

Chronic aquatic hazard: This material has been classified as not hazardous for chronic aquatic exposure. Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data, Acute toxicity estimate (based on ingredients): >100 mg/L, where the substance is not rapidly degradable and/or BCF < 500 and/or log Kow < 4. No information

Ecotoxicity in the soil environment: This material has been classified as non-hazardous.

Ecotoxicity to terrestrial vertebrates: This material has been classified as non-hazardous.

Ecotoxicity to terrestrial invertebrates: This material has been classified as non-hazardous.

Ecotoxicity: No information

Persistence and degradability: No information

Bioaccumulative potential: No information

Mobility: No information

13. DISPOSAL CONSIDERATIONS

If recycling is not practicable, dispose of in compliance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

MARINE TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

AIR TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

15. REGULATORY INFORMATION

This material is not subject to the following international agreements:

Montreal Protocol (Ozone depleting substances)

The Stockholm Convention (Persistent Organic Pollutants)

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The Rotterdam Convention (Prior Informed Consent)
Basel Convention (Hazardous Waste)
International Convention for the Prevention of Pollution from Ships (MARPOL)

This material/constituent(s) is covered by the following requirements:

EPA Group Standard: HSR002545 - Construction Products (Carcinogenic) Group Standard 2020

16. OTHER INFORMATION

Reason for issue: Revised

This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified or altered versions.

If you are an employer it is your duty to tell your employees, and any others that may be affected, of any hazards described in this sheet and of any precautions that should be taken.

Safety Data Sheets are updated frequently. Please ensure you have a current copy.