

SECTION 1: IDENTIFICATION

Product Name Powdered Release Agent
Chemical Family No Data Available
Chemical Formula Powder
Chemical Name No Data Available
Product Description No Data Available

Supplier information

New Zealand Decorative Concrete Ltd T/A Permacolour
 42A Egmont Road, Waiwhakaiho, New Plymouth
 0508 444 555 or 06 755 3320
 www.permacolour.co.nz

SECTION 2: HAZARDS IDENTIFICATION

Product is classified as hazardous according to Schedules 1 to 6 of the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001 of the HSNO Act, 1996.

HSNO Classifications: 3.1C, 6.1E, 6.3A, 6.4A, 6.7B, 6.8B, 6.9B, 9.1D



Signal word: **WARNING**

Precautionary Statements - Prevention

- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- Use personal protective equipment as required
- Do not breathe dust/fume/gas/mist/vapors/spray
- Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Use only outdoors or in a well-ventilated area

Precautionary Statements - Response

- IF exposed or concerned: Get medical advice/attention
- 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
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- Wash contaminated clothing before reuse
- If skin irritation or rash occurs: Get medical advice/attention
- IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
- Call a POISON CENTER or doctor/physician if you feel unwell
- IF SWALLOWED: Rinse mouth. DO NOT induce vomiting
- No known significant effects or critical hazards.

Precautionary Statements - Storage

Store in accordance with local regulations

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms 115, 250, 310, 320, 330, 650, 735, 900, 1000, 1020, 1030, 1035, 1040, 1070, 1090.

Chemical Name	CAS No.	Weight-%	Trade Secret
Yellow Iron Oxide	51274-00-1	0-15	*
Titanium Dioxide	13463 67-7	0-14	*
Red Iron Oxide	1309-37-1	0-15	*
Inorganic Filler	Proprietary	0-25	*
Chrome Oxide	1308-38-9	0-15	*
Carbon Black	1333-86-4	0-15	*
Black Iron Oxide	1317-61-9	0-15	*
Proprietary Release Agent	Proprietary	0-25	*
Cobalt Blue	1345-16-0	0-15	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4: FIRST AID MEASURES

For advice, contact **National Poison Centre (Phone New Zealand: 0800 764 766) or a doctor.**

Swallowed	If swallowed, do not induce vomiting. Seek immediate medical attention. Begin artificial respiration if the person is not breathing. Use mouth to nose rather than mouth to mouth.
Eye	Hold eyelids apart and flush the eye continuously with running water. Continue flushing for at least 15 minutes. Get medical attention if irritation persists.
Skin	If skin or hair contact occurs, remove contaminated clothing and flush affected area with large amounts of water then wash with soap and water.
Inhaled	Move the victim to fresh air immediately. Keep warm and at rest. Begin artificial respiration if breathing has stopped. Use mouth to nose rather than mouth to mouth. Seek immediate medical attention.
First Aid Facilities	Provide eye baths and safety showers close to areas where splashing may occur.

SECTION 5: FIRE-FIGHTING MEASURES

Shut off product that may 'fuel' a fire if safe to do so. Allow trained personnel to attend a fire in progress, providing fire-fighters with this Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.

Suitable extinguishing media :	Use of water spray when fire fighting may be inefficient
Hazards from combustion products:	No information available
Precautions for fire fighters and special protective equipment:	Full protective clothing and self-contained breathing apparatus

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labelled containers.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

SECTION 7: HANDLING AND STORAGE
Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible materials None known based on information supplied.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

CHEMICAL NAME	ACGHIL TLV	OSHA PEL	NIOSH IDLH
Titanium Dioxide 13463-67-7	TWA: 10 mg/m ³	TWA: 15mg/m ³ total dust (vacated) TWA: 10mg/m ³ total dust	IDLH: 5000 mg/m ³
Red Iron Oxide 1309-37-1	TWA: 5mg/m ³ respirable fraction	TWA: 10mg/m ³ fume TWA: 15mg/m ³ total dust TWA: 5mg/m ³ respirable fraction (vacated) TWA: 10mg/m ³ fume and total dust iron oxide (vacated) TWA: 5mg/m ³ respirable fraction regulated under Rouge	IDLH: 2500 MG/M ³ Fe dust and fume TWA: 5MG/M ³ Fe dust and fume
Inorganic Filler	TWA: 2 mg/m ³ particulate matter containing no asbestos and <1% crystalline silica, respirable fraction	TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction (vacated) TWA: 10 mg/m ³ total dust (vacated) TWA: 5 mg/m ³ respirable-fraction	TWA: 10 mg/m ³ total dust TWA: 5 mg/m ³ respirable dust
Chrome Oxide 1308-38-9	TWA: 0.5 mg/m ³ Cr	TWA: 0.5 mg/m ³ Cr (vacated) TWA: 0.5 mg/m ³ Cr	IDLH: 25 mg/m ³ Cr (III) TWA: 0.5 mg/m ³ Cr
Carbon Black 1333-86-4	TWA: 3 mg/m ³ inhalable fraction	TWA: 3.5 mg/m ³ (vacated) TWA: 3.5	IDLH: 1750 mg/m ³ TWA: 3.5 mg/m ³ TWA: 0.1 mg/m ³ Carbon black in presence of Polycyclic aromatic hydrocarbons PAH
Proprietary Release Agent	TWA: 10 mg/m ³ except stearates of toxic metals		
Cobalt Blue 1345-16-0	TWA: 0.02 mg/m ³ Co TWA: 1 mg/m ³ respirable fraction		

Appropriate engineering controls

Engineering Controls Showers, Eyewash stations, Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protection Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance Powder

Odor Odorless

Color Light Amber to Black

pH No information available

Melting point/freezing point No information available

Boiling point / boiling range No information available

Flash point No information available

Evaporation rate No information available

Flammability (solid, gas) No information available

Flammability Limit in Air

Vapor pressure No information available

Vapor density No information available

Specific Gravity No information available

Water solubility No information available

Solubility in other solvents No information available

Partition coefficient No information available

Autoignition temperature No information available

Kinematic viscosity No information available

Dynamic viscosity No information available

Upper flammability limit: No information available

Lower flammability limit: No information available

SECTION 10: STABILITY AND REACTIVITY

Reactivity No information available

Chemical stability Stable under recommended storage conditions.

Possibility of Hazardous Reactions None under normal processing.

Conditions to avoid Extremes of temperature and direct sunlight.

Incompatible materials None known based on information supplied.

Hazardous Decomposition Products None known based on information supplied

SECTION 11: TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Acute Effects

Ingestion: No data available

Eye Contact: No data available

Skin Contact: No data available

Inhalation: No data available

Chemical Name	Oral LD50	Dermal LD50
Titanium Dioxide	>10000mg/kg (Rat)	
Red Iron Oxide	>10000mg/kg (Rat)	
Carbon Black	>15400mg/kg (Rat)	>3g/kg (Rabbit)
Black Iron Oxide	>10000mg/kg (Rat)	
Proprietary Release Agent	>10 k/kg (Rat)	

No toxicological effects

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.

Germ cell mutagenicity No information available.

Chemical Name	IARC	ACGIH	OSHA
Titanium Dioxide	Group 2B	-	X
Red Iron Oxide	Group 3	-	-
Carbon Black	Group 2B	-	-

ACGIH (American Conference of Governmental Industrial Hygienists) A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer) Group 2B - Possibly Carcinogenic to Humans Not classifiable as a human carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor) X - Present

SECTION 11: TOXICOLOGICAL INFORMATION CONTINUED

Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Target Organ Effects	Eyes, lungs, Lymphatic System, Respiratory system, Skin.
Aspiration hazard	No information available.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 28605 mg/kg

SECTION 12: ECOLOGICAL INFORMATION
Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Carbon Black	-	-	5600: 24 h Daphnia magna mg/L EC50

Persistence and degradability No information available.

Bioaccumulation No information available.

Other adverse effects No information available

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Methods: Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Care should be taken to ensure compliance with national and local authorities. Packaging may still contain fumes and vapours that are Flammable and harmful. Ensure that empty packaging is allowed to dry.

Special Precautions for Landfill or Incineration:

This product is NOT suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers. This product is ash less and can be burned directly in appropriate equipment.

Chemical Name	California Hazardous Waste Status
Chrome Oxide	Toxic, Corrosive, Ignitable
Cobalt Blue	Toxic

SECTION 14: TRANSPORT INFORMATION

Dot Not regulated

International Inventories

TSCA Complies

DSL/NDSL Complies

EINECS/ELINCS Complies

ENCS Complies

IECSC Complies

KECL Complies

PICCS Complies

AICS Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECS - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

SECTION 15: REGULATORY INFORMATION

Country/ Region: New Zealand

Refer www.ermanz.govt.nz for information on Controls.

SECTION 16: OTHER INFORMATION

Reasons for Issue:

Creating a new Safety Data Sheet.

Abbreviations:

CAS Number: Chemical Abstracts Number

IARC: International Agency for Research on Cancer

NIOSH: National Institute of Occupational Safety & Health

NOHSC: National Occupational Health and Safety Council

NZCI: New Zealand Chemical Inventory

REL: Recommended Exposure Limits

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses, but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product. For further information, please contact Permacolour by New Zealand Decorative Concrete.