SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

SUPPLIERS NAME -	New Zealand Decorative Concrete Ltd T/A Permacolour
Street Address -	42A Egmont Road, New Plymouth
Telephone number -	0508 444 555
Chemical name -	n/a
Trade name -	Activator
Recommended use -	Additive to cement mortar

SECTION 2: HAZARD IDENTIFICATION

Hazardous Nature

This product is classified as hazardous under HSNO criteria

Hazardous Classification

HSR002503

6.1E (respiratory tract irritant), 6.3A, 6.4A, 6.5B

GHS Pictograms

Exclamation Mark

Signal Word None

Dangerous Goods Classification N/R

Hazard Statements

H315: Causes skin irritation

H317: May cause an allergic skin reaction

H319: Causes serious eye irritation

H335: May cause respiratory irritation

Precautionary Statements

P261: Avoid breathing dust/fume/ gas/mist/vapours/spray.

P264: Wash thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response Statements

P302 + P352: IF ON SKIN: Wash with plenty of soap and water

P333+P313: If skin irritation or a rash occurs: Get medical advice/attention.

P362+P364: Take off contaminated clothing and wash it before reuse.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312: Call a POISON CENTER/ doctor/…/if you feel unwell.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

P337+P313: If eye irritation persists get medical advice/attention.

Storage Statements

P403+P233: Store in a well ventilated place. Keep container tightly closed.

P405: Store locked up.

Disposal Statements

P501: Dispose of contents, or container in accordance with local/regional/national/international regulation.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Ingredient	CAS No.	Proportion (%v/v)
Acrylic ester co-polymer	25035-69-2	46-48
Water	7732-18-5	52-54

SECTION 4: FIRST AID MEASURES

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

Ingestion
Wash mouth with water. Do not induce vomiting. Seek medical attention if concerned or if large amount has been consumed.

Eye Contact
Hold eyelids apart and flush the eye with running water for at least 15 minutes. Seek medical attention if irritation persists

Skin/Hair Contact
If skin contact occurs, remove contaminated clothing and wash skin with soap and water. If skin irritation occurs, get medical advice. Launder contaminated clothing before re-use.

Inhalation
Move the victim to fresh air and keep at rest in a position comfortable for breathing. Begin artificial respiration if breathing has stopped. Seek medical attention

First Aid facilities
Provide eye baths and safety showers.

Medical Attention
Treat according to symptoms. Avoid gastric lavage: risk of aspiration of product to the lungs with the potential to cause chemical pneumonitis.

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 firefighters with this Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.

Suitable extinguishing media
Water spray or water fog, foam, CO_2, dry powder.

Hazards from combustion products
Carbon dioxide, carbon monoxide, nitrogen oxide.

Specific Hazards
None identified

Precautions for fire fighters and special protective equipment
Full protective clothing and self-contained breathing apparatus

Hazchem Code: N/R

SECTION 6: ACCIDENTAL RELEASE MEASURES

Accidental Release Controls
Avoid contact with spilled material. Wear personal protective equipment.

Emergency Procedures
Prevent material from escaping to drains and waterways. Contain leaking packaging in a containment drum. Prevent vapours from building up in confined areas. Ensure that drain valves are closed at all times. Clean up and report spills immediately.

Methods and materials for containment

Major Land Spill

- Eliminate sources of ignition
- Warn occupants of downwind areas of possible fire and explosion hazard
- Prevent product from entering sewers, watercourses, or low-lying areas
- Keep the public away from the area
- Shut off the source of the spill if possible and safe to do so
- Advise authorities if substance has entered a watercourse or sewer or has contaminated soil or vegetation
- Take measures to minimise the effect on ground water
- Contain any spilled liquid with sand or earth
- Recover liquid spills by pumping – use explosion proof pump or hand pump – or with a suitable absorbent material
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations
- See "First Aid Measures" and "Stability and Reactivity"

Major Water Spill

- Eliminate any sources of ignition
- Warn occupants and shipping in downwind areas of possible fire and explosion hazard
- Notify the port or relevant authority and keep the public away from the area
- Shut off the source of the spill if possible and safe to do so
- Confine the spill if possible
- Remove the product from the surface by skimming or with suitable absorbent material
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations
- See "First Aid Measures" and "Stability and Reactivity".

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Keep locked up. Keep container closed when not in use. Handle containers with care. Use with adequate ventilation in work area. Wear personal protective equipment. Wash hands thoroughly after handling and before rest or meal breaks, and at end of work shift.

Conditions for safe storage

Store in original closed container in a cool dry well-ventilated place away from direct sunlight, heat and incompatible substances. Protect from freezing.

Incompatible materials

Acids

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards

The time weighted average (TWA) concentration, which means the highest allowable exposure concentration in an eight-hour day for a five-day working week for this product is: No values established. The short-term exposure limit (STEL), which is the maximum allowable exposure concentration at any time.is: No values established.

Biological limit values

No values established

Engineering Controls: Ventilation

The use of local exhaust ventilation is recommended to control process emissions near the source. Laboratory samples should be handled in a fume hood. Provide mechanical ventilation of confined spaces. Use explosion-proof ventilation equipment.

Personal Protective Equipment

Respiratory Protection: Where concentrations in air may exceed the limits described in the National Exposure Standards, it is recommended to use a half-face or full-face filter mask to protect from overexposure by inhalation.

Recommended Filter Type: Respiratory Protection: Not required when product is used in a well-ventilated area.

Refer to AS/NZS 1715: *Selection, Use and Maintenance of Respiratory Equipment* and AS/NZS 1716*: Respiratory Protective Devices* for further details on the use of respiratory protective equipment.

Eye Protection: Always use safety glasses or a face shield when handling this product.

Skin/ Body Protection: Always wear long sleeves and long trousers or coveralls, and enclosed footwear or safety boots when handling this product. It is recommended that chemical resistant gloves (e.g. PVC) be worn when handling this product.

Suitable glove material: nitrile rubber, butyl rubber, neoprene and PVC.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Unit of measurement	Typical value
Appearance	-	Liquid, dispersion
Odour	-	Odourless
Odour Threshold	ppm	Not available
Melting Point/Range	°C	Not available
Boiling Point/ Range	°C	≥100
Flash Point	°C	≥100
Flammability	-	Not applicable
Specific Gravity	-	1.05
Vapour Pressure @ 20°C	mm Hg	17.0
Explosive Limits (LEL – UEL)	%	Not available – Not applicable
Vapour Density @ 20°C	kPa	Not available
Autoignition Temperature	°C	Not available
Decomposition Temperature	°C	Not available
Kinematic Viscosity @ 25°C	cSt	<100 cSt
pH	-	8.0-10.0
Partition Coefficient	-	Not available
Percent Volatiles	%	Not available
Solubility with Water	% w/w	Soluble
Other Solubility	% w/w	Not available
Other Information	-	-

The values listed are indictive of this product's physical and chemical properties. For a full product specification, please consult the product data sheet..

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability

Stable at room temperature and pressure

Avoid high temperatures or freezing conditions, and contaminants

Conditions to avoid

Sources of heat and ignition, open flames.

Hazardous decomposition products

No decomposition products except on burning

Hazardous reactions

Acids or acidic substances

Hazardous Polymerisation

Not anticipated to occur

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Effects

Ingestion

No information available

Eye Contact

The acrylic ester co-polymer is classified as a serious eye irritant in notifications to ECHA. This indicates the potential for redness, swelling or irritation.

Skin Contact

The acrylic ester co-polymer is classified as a skin irritant in notifications to ECHA. This indicates the potential for redness, swelling or irritation especially with repeated or over-exposure. Skin may darken in colour.

The manufacturer has identified the formulated product as a skin sensitiser.

Inhalation

The acrylic ester co-polymer is classified as a respiratory irritant in notifications to ECHA. This indicates possible symptoms of sneezing, coughing, difficulty breathing or asthma symptoms) if mist were inhaled. Delayed symptoms are possible.

Chronic Effects

No chronic health data is available for this material.

Other Health Effects Information

No studies have been undertaken on the final product. An assessment of toxicological properties is based on information on the components.

Toxicological Information

Oral / Dermal LD_{50}: No data available

Inhalation LC_{50}: No data available

Acute Toxicity (6.1A, 6.1B, 6.1C, 6.1D): Not classified as an acute toxicant.

Aspiration Hazard (6.1E): No information found to support a classification. A significant proportion of the formulated product is water

Respiratory Irritation (6.1E): May cause respiratory irritation

Skin Corrosion/Irritation (8.2A, 8.2B, 8.2C, 6.3A): Causes skin irritation

Serious Eye damage/irritation (8.3A, 6.3A): Causes serious eye irritation

Respiratory or Skin Sensitisation (6.5A, 6.5B): May cause an allergic skin reaction

Germ cell mutagenicity (6.6A, 6.6B): Not classified.

No information found to support a classification.

Carcinogenicity (6.7A, 6.7B): Not classified.

No information found to support a classification.

Reproductive Toxicity (6.8A, 6.8B, 6.8C): Not classified.

No information found to support a classification.

Specific Organ Toxicity (Repeated and Single Exposure) (6.9A, 6.9B): Not classified.

No information found to support a classification.

Narcotic Effects (6.9B): Not classified.

No information found to support a classification.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Toxicity

Fish toxicity, LC_{50} (96 hr):	No data available
Crustacean toxicity (Daphnia Magna), EC_{50} (48 hr):	No data available
Green algae toxicity, EC_{50} (72 hr):	No data available
Blue-green algae toxicity (Cyanobacteria), EC_{50} (72 hr):	No data available

Persistence/Degradability

No information available

Mobility

Product is identified as being soluble in water and may be expected to be mobile in soil.

Bioaccumulative Potential

No information available

Other Information

Formulation is classified as being non-toxic to the aquatic environment however avoid any contamination of waterways, drains or sewers by product or packaging.

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 harmful residue and/or fumes and vapours that are flammable. 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 must be disposed as chemical waste in accordance with the local authority.

SECTION 14: TRANSPORT INFORMATION

Road and Rail Transport		Marine Transport		Air Transport	
UN No.	N/R	UN No.	N/R	UN No.	N/R
Proper Shipping Name	N/A	Proper Shipping Name	N/A	Proper Shipping Name	N/A
DG Class	N/R	DG Class	N/R	DG Class	N/R
Sub. Risk	None	Sub. Risk	None	Sub. Risk	None
Pack Group	N/R	Pack Group	N/R	Pack Group	N/R
Hazchem	N/R	Hazchem	N/R	Hazchem	N/R

Dangerous Goods Segregation

This product is classified as Dangerous Goods Class N/R, packing group N/R.

SECTION 15: REGULATORY INFORMATION

Country/ Region: New Zealand

Inventory: NZIoC

Status: Listed in NZIoC

HSNO Approval: HSR002503: Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2017

HSNO/HSWA Controls: Refer to the above Group Standard, Health and Safety at Work Act 2015, www.epa.govt.nz and www.worksafe.govt.nz for further information on controls

Certified Handler: Not required

Tracking: Not required

Restriction to workplace: Not applicable

Signage: Not required

Fire extinguishers: Not required

Emergency Response Plan: Threshold quantity: 1,000 L

Secondary containment: Threshold quantity: 1,000 L

Agricultural Compounds and Veterinary Medicines Act 1997 (ACVM): Not applicable

Montreal Protocol on Substances that Deplete the Ozone Layer: Not applicable

Stockholm Convention: Not applicable

Rotterdam Convention: Not applicable

SECTION 16: OTHER INFORMATION

Reasons for Issue: Update SDS format and company details.

Replaces SDS dated: 25 September 2017

New SDS issue date: 05 December 2018

Abbreviations:

ACGIH: American Conference of Governmental Industrial Hygienists

AS/NZS: Standards Australia & Standards New Zealand

BCF: Bioconcentration Factor

CAS: Chemical Abstracts Service

CCID: Chemical Classification and Information Database

EC_{50}: Effective Concentration, 50 per cent

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

HSNO: Hazardous Substances and New Organisms Act 1996

HSWA: Health and Safety at Work Act 2015

IARC: International Agency for Research on Cancer

IC_{50}: Half Maximal Inhibitory Concentration

LC_{50}: Lethal Concentration, 50 per cent

LD_{50}: Lethal Dose, 50 per cent

LEL: Lower Explosive Limit

LOAEL: Lowest-observed-adverse-effect level

NOAEL: No-observed-adverse-effect-level

NOEC: No Observed Effect Concentration

NZIoC: New Zealand Inventory of Chemicals

NZS 5433 New Zealand Standard Transport of Dangerous Goods on Land

OECD: Organisation for Economic Co-operation and Development

STEL: Short-Term-Exposure Limit

TLV: Threshold Limit Value

TWA: Time-Weighted Average

UEL: Upper Explosive Limit

References:

• Supplier Safety Data Sheets

• EPA CCID https://www.epa.govt.nz/database-search/chemical-classification-and-information-database-ccid/

• Workplace Exposure Standards and Biological Exposure Indices. 9th Edition, published by WorkSafe New Zealand November 2017. https://worksafe.govt.nz/topic-and-industry/work-related-health/monitoring/exposure-standards-and-biological-exposure-indices

• US EPA Toxnet ChemIDPlus: http://chem.sis.nlm.nih.gov/chemidplus (December 18)

• OECD eChemPortal Substance Search https://www.echemportal.org/echemportal/participant/page.action?pageID=9

New Zealand Decorative Concrete Ltd has compiled the information and recommendations contained in this Safety Data Sheet from sources believed to be reliable and to represent the most reasonable current opinion on the subject at the date quoted in section sixteen of the Safety Data Sheet. No warranty, guarantee or representation is made as to the correctness or sufficiency of the information. The user of this product must decide what safety measures are necessary to safely use this product, either alone or in combination with other products, and determine the environmental regulatory compliance obligations under any applicable New Zealand laws. In providing this disclaimer New Zealand Decorative Concrete Ltd removes itself from any responsibility/liability of damages/harm caused by the information or lack thereof in this Safety Data Sheet document.