# SAFETY DATA SHEET

## Substance name: UCCC BUILDING FILLER

### 1/ IDENTIFICATION

**1.1 Product Identifier**

| | |
|---|---|
| Trade name | UCCC BUILDING FILLER |
| Synonym | Bog, Builders Plus Building Filler |
| Product code | BFW, BFT. |
| EINECS or IUPAC Name | |
| Molecular Formula | Mixture |

**1.2 Relevant Identified Use of Substance or mixture and uses advised against**

Recommended Use: Thermosetting two pack polyester filler for use in the building industry.

**1.3 Details of Supplier**

Company Identification: United Chemicals Composites & Colours Pty Ltd
(ABN 25 600 232 040)
30A Futura Road,
Keysborough, Vic. 3173, Australia
Ph. 61 (03) 9798 2650
Fax 61 (03) 9798 3562
email: sales@uccc.com.au
Website: uccc.com.au

**1.4 Emergency Telephone Number(s)**

| | |
|---|---|
| Phone: In Australia (all states) | Normal business hours (Mon-Fri, 9-5pm AEST) 1800 033 111 |
| | Outside business hours 1800 033 111 |
| In New Zealand | 24 hours 0800 734 607 |
| POISONS INFORMATION SERVICE: | 13 11 26 Australia; or |
| | 0800 734 607 New Zealand or |
| | 613 9663 2130 International |

### 2/ HAZARD IDENTIFICATION

**Classified as Hazardous Chemical** according to the classification by Safe Work Australia.
**Classified as Dangerous Goods** according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

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## Substance name: UCCC BUILDING FILLER

**2.1 Classification of Substance or Mixture**

**Signal word: DANGER**

| GHS Classification | Pictogram | Hazard Statement |
|---|---|---|
| Flammable Liquid Category 3 |  GHS02 | H226 Flammable liquid and vapour. |
| Acute Toxicity (Inhalation) Category 4<br><br>Specific Target Organ Toxicity (single exposure) Category 3<br>Specific target organ toxicity (repeated exposure) Category 1 |  GHS07 | H332 Harmful if inhaled.<br><br>H335 May cause respiratory irritation. |
| Serious Eye Damage/Irritation Category 2<br>Skin Corrosion/irritation Category 2 |  GHS08 | H319 Causes serious eye irritation.<br><br>H315 Causes skin irritation. |

**2.2 GHS Label Elements, including precautionary statements**

| | |
|---|---|
| GENERAL | |
| P101 | If medical advice is needed, have product container or label at hand. |
| PREVENTATIVE | |
| P201 | Obtain special instructions before use. |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P210 | Keep away from heat/sparks/open flames/hot surfaces – No smoking. |
| P233 | Keep container tightly closed. |
| P240 | Ground/bond container and receiving equipment. |
| P241 | Use explosion-proof electrical/ventilating/lighting/..../equipment. |
| P242 | Use only non-sparking tools. |
| P243 | Take precautionary measures against static discharge. |

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| | |
|---|---|
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray. |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P264 | Wash thoroughly after handling. |
| P270 | Do not eat, drink, or smoke when using this product. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P281 | Use personal protective equipment as required. |
| RESPONSE | |
| P301+P310 | IF SWALLOWED: immediately call a POISON CENTRE or doctor/physician. |
| P302+P352 | IF ON SKIN: Wash with plenty of soap and water. |
| P303+P361+P353 | IF ON SKIN: (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| P304+P340 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P308+P313 | IF exposed or concerned: Get medical advice/attention. |
| P312 | Call a POISON CENTRE or doctor/physician if you feel unwell. |
| P321 | Specific treatment (see First Aid Measures on this MSDS). |
| P331 | Do NOT induce vomiting. |
| P332+P313 | If skin irritation occurs: Get medical advice/attention. |
| P337+P313 | If eye irritation persists: Get medical advice/attention. |
| P370+P378 | In case of fire: Use carbon dioxide, dry chemical, or foam for extinction. |
| STORAGE | |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed and cool. |
| P405 | Store locked up. |
| DISPOSAL | |
| P501 | Dispose of contents/container in accordance with local regulations. |

**2.3 Other Hazards which do not result in classification:**

Germ cell mutagenicity –Unknown

Carcinogenicity –Unknown

Reproductive toxicity – Unknown

Specific target organ toxicity – single exposure – Category 1 (central nervous system),

Specific target organ toxicity – repeated exposure – Category 1 (central nervous system)

Aspiration hazard – Category 1

Hazardous to the aquatic environment (acute) – Category 2

Hazardous to the aquatic environment (long term) – Not classified

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## Substance name: UCCC BUILDING FILLER

### 3/ COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Viscous paste with off-white or beige-brown colour.

Hazardous Component(s):

Composition

| Substance name | Contents | CAS No. | EC No. | | | Classification |
|---|---|---|---|---|---|---|
| Polyester resin | 30-<70% | Confidential | | | | Not classified |
| Styrene monomer | 10<30% | 100-42-5 | | | | H226 Flammable liquid and vapour |
| Talc | 10<50% | 14807-96-6 | | | | Classified as non-hazardous |
| Calcium carbonate | 10<30 | 1317-65-3 | | | | Classified as non-hazardous |
| Silica, fumed | 1<10% | 112945-52-5 & 7631-86-9 | | | | Classified as non-hazardous |
| Inorganic microspheres | 1<10% | 50815-87-7 | | | | Classified as non-hazardous |
| Titanium dioxide | 0<10% | 13463-67-7 | | | | Classified as non-hazardous |
| Additives | 1<5% | Confidential | | | | Not classified |

Note. All chemical entities in these formulations comply with NICNAS legislation.

### 4/ FIRST AID MEASURES

| | |
|---|---|
| Inhalation | If inhaled, remove person from contaminated area. Apply artificial respiration if not breathing. Seek medical attention |
| Skin Contact | If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If symptoms develop, seek medical attention. |
| Eye Contact | If eye contact occurs, hold eyelids apart and flush eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Seek immediate medical attention. |
| Ingestion | Do not induce vomiting. Wash out mouth thoroughly with water. Seek immediate medical attention. |

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**Symptoms caused by exposure**

| | |
|---|---|
| Inhalation | Harmful by inhalation. Inhalation of mists or vapours may result in respiratory irritation and possible harmful corrosive effects including lesions of the nasal septum, pulmonary oedema, pneumonitis and emphysema. Exposure to large concentrations over an extended period of time can result in muscle weakness, tingling in hands and feet, blurred vision, headaches, nausea, loss of appetite, hallucinations, and possible loss of consciousness.<br>Repeated or prolonged exposure to this product can result in acute effects being felt with greater frequency and severity. Effects of exposure may increase in intensity with subsequent use. |
| Skin Contact | Harmful in contact with skin. Skin contact may cause redness, itching, irritation, severe pain and chemical burns with resultant tissue destruction. This product may cause sensitisation in some individuals. Defatting and drying of the skin will occur on exposure to the product's vapours. |
| Eye Contact | Risk of serious damage to eyes. Eye contact will cause stinging, blurring, tearing, severe pain and possible permanent corneal damage.<br>Vapour may be irritating to the eyes and eye tissue. |
| Ingestion | Ingestion of any amount of this product may cause headaches, nausea, dizziness, vomiting, abdominal pain and chemical burns to the mouth, throat and stomach.<br>Small amounts of liquid aspirated into the lungs during ingestion, or from vomiting, may cause chemical pneumonitis, or pulmonary oedema. |

**Medical attention and special treatment**

Treat symptomatically. Avoid gastric lavage: risk of aspiration of product to the lungs with potential to cause chemical pneumonitis.

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### 5/ FIRE FIGHTING MEASURES

**Suitable extinguishing equipment**

Use carbon dioxide, dry chemical or foam. Alcohol resistant foam is preferred. If not available, normal foam can be used. Do not use water jet.

**Specific Hazards arising from the substance**

Flammable liquid and vapour. Vapour/air mixtures may ignite explosively. Flashback along the vapour trail may occur. Runoff to sewer may create fire or explosion hazard.
Under fire conditions this product may emit toxic and/or irritating black acrid fumes including carbon monoxide and carbon dioxide.
Avoid spraying water directly into storage containers due to danger of boil over.

**Special protective equipment and precautions for fire fighters**

Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. In case of fire, the product may be violently or explosively reactive. Use water spray to disperse vapours. This product should be prevented from entering drains and watercourses. Hazchem code 3Y.

### 6/ ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

Wear appropriate personal protective equipment and clothing to minimise skin/eye exposure and inhalation of vapours. Extinguish or remove all sources of ignition and stop any leak if safe to do so. Increase ventilation. Evacuate all unnecessary personnel.

**Environmental precautions**

If possible contain the spill. Place inert absorbent material (soil, sand, vermiculite or other inert material) onto spillage. Use clean non-sparking tools to collect the material and place into a suitable labelled container for disposal. Do not dilute material. Dispose of waste according to federal, Environmental Protection Authority and state regulations. If the spillage enters the waterways contact Environmental Protection Authority, or your local Waste Management Authority.

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## Substance name: UCCC BUILDING FILLER

### 7/ HANDLING AND STORAGE

**Precautions for Safe Handling**

Corrosive and flammable liquid. Attacks skin and eyes. May produce severe burns. Wear suitable protective clothing (eg. long sleeves and trousers or long coveralls, and safety shoes), appropriate chemical resistant gloves and eye/face protection (goggles or face shield) when mixing and using this substance. Use in designated areas with adequate ventilation. Avoid breathing in vapours, mist or fumes. Keep containers closed when not in use. Ensure a high level of personal hygiene is maintained when using this product, that is always wash hands after handling, and before eating, drinking, smoking or using the toilet facilities. Do not use near ignition sources. Do not pressurise, cut, heat or weld containers as they may contain hazardous residues. Prevent the build up of mists or vapours in the work atmosphere.

**Conditions for Safe Storage, Including Any Incompatibilities.**

Corrosive and flammable liquid for storage and handling purposes. Keep container tightly closed and store in a dry, cool, well-ventilated area, out of direct sunlight. Provide a catch-tank in a bunded area. Avoid sparks, flames and other ignition sources. Store well away from any sources of ignition and incompatible materials. Do not pressurise, cut, heat or weld containers as they may contain hazardous residues. Handle containers with care. Keep containers closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Open containers slowly in order to control possible pressure release. The product has limited storage life due to inhibitor depletion and should be used within six months of delivery. Rapid polymerisation resulting in violent rupture of closed containers and possible fire from flammable vapours may be initiated by high temperatures or certain contaminants. Have appropriate fire extinguishers available in and near the storage area. Take precautions against static electricity discharges. Use proper grounding procedures. For information on the design of the store-room, refer to the Australian Standard AS1940-The storage and handling of flammable and combustible liquids and AS3780-2008 The storage and handling of corrosive substances. Reference should also be made to all Local, State and Federal regulations. Do not store near strong oxidising agents, free radical initiators, reducing agents, tertiary amines, heavy metals, and mineral acids.

**Incompatible Materials**

Natural rubber, butyl rubber, EPDM, polystyrene, zinc, copper and their alloys.

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### 8/ EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure control measures**

No exposure value assigned for this specific material by the National Occupational Health and Safety Commission (NOHSC), Australia or the Occupational Safety and Health Service (OSH) of the New Zealand Department of Labour. However, the available exposure limits for the ingredients are listed below:

National Occupational Health and Safety Commission (NOHSC) Australian Exposure standards:

| Substance | TWA | | STEL | | Notices |
|---|---|---|---|---|---|
| Styrene | 50ppm | 213mg/m3 | 100ppm | 426mg/m3 | |
| Amorphous silica | | 2mg/m3 | | Not available | |
| Talc | | 2.5mg/m3 | | Not available | |

Amorphous silica revised IDLH 3000mg/m3.

New Zealand Occupational Safety and Health Service (OSH) Workplace Exposure Standards:

| Substance | TWA | | STEL | | Notices |
|---|---|---|---|---|---|
| Styrene | 50ppm | 213mg/m3 | 100ppm | 426mg/m3 | Sk |
| Amorphous silica | | 2mg/m3 | | | |
| Talc | | 2.5mg/m3 | | | |

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.
STEL (Short Term Exposure Limit): The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.
'Sk' or 'Skin' Notice: Absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur.
'Sen' Notice: Respiratory and/or skin sensitiser.

**Biological Monitoring**

Substance name: styrene (CAS 100-42-5)
Determinant: Mandelic acid plus phenylglyoxylic acid in urine

BEI®: 400mg/g creatinine

Sampling time: end of shift.

Determinant: Styrene in venous blood

BEI®: 0.2mg/l

Sampling time: end of shift.
Source: American Conference of Industrial Hygienists (ACGIH)

**Appropriate engineering controls**

Provide sufficient ventilation to keep local airborne levels below the exposure limits. Where vapours or mists are generated, particularly in enclosed areas, and where natural ventilation is inadequate, a explosion-proof exhaust ventilation system is required. Refer to AS1940- The storage and handling of flammable and combustible liquids and AS/NZS 2430.3.1:2004: Classification of hazardous areas – examples of area classification – General, for further information concerning ventilation requirements.

**Individual protection measures**

| | |
|---|---|
| Eye and Face protection | Safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances ie. methods of handling and engineering controls and according to risk assessments undertaken. Eye protection should conform with Australian Standard AS/NZS 1337 – Eye Protectors for Industrial Applications. |
| Skin protection | Wear gloves of impervious material such as PVC. Final choice of appropriate gloves will vary according to individual circumstances ie. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS2161.1- Occupational protective gloves – Selection, use and maintenance.<br>Wear appropriate clothing (eg. long coveralls) including chemical resistant apron where clothing is likely to be contaminated. It is advisable that a local supplier of personal protective clothing is consulted regarding the choice of material. |

| | |
|---|---|
| Respiratory protection | If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable organic vapour filter should be used. Reference should be made to Australian Standard AS/NZS 1715 – Selection, use and maintenance of Respiratory Protective Devices; and AS/NZS 1716 – Respiratory Protective Devices, in order to make any necessary changes for individual circumstances (eg. half-face filter mask with Type "A" filter material). |
| Thermal hazards | Flammable. Gives off irritating or toxic fumes (or gases) in a fire. Above 31C explosive vapour/air mixtures may be formed. Above 31C, use a closed system, mechanical ventilation and explosion-proof electrical equipment. |

## 9/ PHYSICAL AND CHEMICAL PROPERTIES

| **Parameter** | **Typical value** |
|---|---|
| Appearance | Off white or beige-brown viscous paste |
| Odour | Characteristic pungent solvent odour |
| Odour threshold | Unknown |
| pH | Not applicable |
| Melting point/freezing point | Not applicable |
| Initial boiling point or boiling range | >145C*(may polymerise below boiling point) |
| Flash point | 31C (closed cup) |
| Evaporation rate | 0.49* (n-butyl acetate=1) |
| Flammability | No data |
| Upper/lower flammability or explosive limits | 0.9%-6.8%* by vol. |
| Vapour pressure | <5mm Hg (20C)* |
| Vapour density | Heavier than air |
| Relative density @20C, kg/L | 1.1 to 1.5 |
| Water Solubility(ies) @20C | Insoluble |
| Partition coefficient: n-octanol/water (log Pow) | Not applicable |
| Auto-ignition temperature | 490C* |
| Decomposition temperature | Unknown |
| Dynamic Viscosity @25C (Brookfield RVT) | 150K-400K cp |
| Non-volatile content | 50-70% w/w |
| Other information | |
| *Based on styrene | |

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### 10/ STABILITY AND REACTIVITY

**10.1 Reactivity**

Stable under normal conditions of storage and handling.

**10.2 Chemical stability**

May undergo polymerisation. Store in a cool place to maximise shelf life.

**10.3 Possibility of hazardous reactions**

May occur in the presence of polymerisation accelerators.

**10.4 Conditions to avoid**

Avoid heat, direct sunlight, open flames or other sources of ignition such as sparks, static discharges. Avoid prolonged storage above 30C.

**10.5 Incompatible materials**

Strong oxidising agents. Alkylation catalysts and strong acids (H2SO4, H3PO4, BF3, AlCl3), halogens, halogenated organic compounds, and hydrogen halides, and metal salts. Avoid contact with zinc, copper and their alloys. Organic peroxides catalyse rapid polymerisation of styrene monomer.

**10.6 Hazardous decomposition products**

Fumes, smoke, carbon monoxide, carbon dioxide, phenols, and other organic complexes on incomplete combustion or oxidation.

### 11/ TOXICOLOGICAL INFORMATION

| | |
|---|---|
| Acute toxicity | Oral or inhalation - Category 4. Warning.<br>LD50 (Oral, rat): 2650mg/kg (*styrene),<br>LD50 (dermal, rabbit): >5010mg/kg*<br>LC50 (4 hours, vapour inhalation, rat): 12g/m3*.<br>LC50 (vapour inhalation, mouse) 6.8mg/l* |
| Skin corrosion/irritation | Material is irritating to the skin. Defatting and drying will occur on exposure to product vapors.<br>*Category 2, Warning.<br>Causes skin irritation. Rabbit FHSA rating 2.4 on a scale of 8.0, slightly irritating. |
| Serious eye damage/irritation | *Category 2. Warning. Causes serious eye irritation.<br>Rabbit FHSA rating 10.3 on a scale of 110.0, slightly irritating. |
| Respiratory or skin sensitisation | *Category 1, Danger. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause allergic skin reaction or sensitisation. No data available. |
| Germ cell mutagenicity | *Category 2. Warning. Suspected of causing genetic defects. |
| Carcinogenicity | *Category 2, Warning. Suspected of causing cancer. |

| | |
|---|---|
| Reproductive toxicity | *Category 1B, Danger. H361d (Suspected of damaging the unborn child) |
| Specific Target Organ Toxicity (STOT)- single exposure | *Category 1 (central nervous system) Danger. Causes damage to organs.<br>Category 3 (respiratory tract irritation) Warning. May cause respiratory irritation or may cause drowsiness or dizziness. |
| Specific Target Organ Toxicity (STOT)- repeated exposure | *Category 1(respiratory system, nervous system, blood system liver) Danger. Causes damage to organs through prolonged or repeated exposure. H372 (Causes damage to the hearing organs through prolonged or repeated exposure). |
| Aspiration hazard | *Category 1, Danger. May be fatal if swallowed and enters airways. Based on styrene's hydrocarbon composition and its dynamic viscosity of 0.772mm2/s (25C) (CERI calculated value). |

*Based on styrene.

## 12/ ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Hazardous to the aquatic environment (acute) Category 2. Toxic to aquatic life. Based on 96 hours LC50 (fish) of 4.02mg/L (styrene, fathead minnows).

Daphnia Magna EC50 (24hr): styrene 4700µg/L

Blue-green algae (toxicity threshold 7-8 days): styrene 67mg/L

Green algae EC50 (toxicity threshold 7-8 days): styrene 560µg/L

12.2 Persistence and degradability

Hazardous to the aquatic environment (long term). Not classified. This product is not considered to comply with international biodegradability criteria.

The major solvent in these formulations is styrene, which undergoes slow, but nearly complete biodegradation. Styrene released to soil will have a low mobility and will biodegrade. Styrene released to water will float and volatilise and will biodegrade. Styrene vapour degrades rapidly in the atmosphere.

12.3 Bio-accumulative potential

Bio-accumulation index low (styrene log Kow=2.95 (PHYSPROP Database 2005).

12.4 Mobility in soil

If product enters soil, it will be highly mobile and may contaminate groundwater.

12.5 Other adverse effects.
Unknown

## 13/ DISPOSAL INFORMATION

Disposal of spilled or waste material must be carried out in accordance with the relevant local and national government regulations. Advise flammable nature. Empty containers may contain flammable residues and vapour that are harmful. Do not puncture, cut or weld empty containers. Ensure that empty packaging is allowed to dry. Do not reuse empty containers without appropriate hazardous waste cleaning or reconditioning.

**Special Conditions for Disposal**
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 a hazardous chemical in accordance with the local regulatory authority.

## 14/ TRANSPORT INFORMATION

| | |
|---|---|
| 1. UN Number: | 3269 |
| 2. UN Proper Shipping Name: | Polyester Resin Kit |
| 3. Australian Dangerous Goods class: | 3 |
| 4. Australian Dangerous Goods Packing Group: | III |
| 5. Hazchem Code: | 3Y |

14.7 Special Precautions
IERG Number 15
Not listed as a IMDG Marine Pollutant.
Refer to Section 7 Handling and Storage for special conditions and precautions.

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## Substance name: UCCC BUILDING FILLER

### 15/ REGULATORY INFORMATION

**Australia:**

Classified as a hazardous chemical according to the GHS criteria of Safe Work Australia.
Classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

**Classified as Dangerous Goods** according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
Dangerous Goods Initial Emergency Response Guide (SAA/SNZ HB76): 14

**Poisons Schedule**
Classified according to the SUSMP as: S5.

**New Zealand:**

Classified as Hazardous according to the New Zealand Hazardous Substances (Minimum degrees of Hazard) Regulations 2001.
All components of this product are listed on the New Zealand Inventory of Chemicals (NZIoC) or exempted.
Group standard:
Additives, Process Chemicals and Raw Materials (Flammable, Toxic (6.1 + 6.7), Corrosive)
Group Standard 2006.

HSNO Approval Number
HSR002499

Hazard Category
Harmful, Corrosive, Flammable.

**Australia (AICS)**
All components of this product are listed on the Australian Inventory of Chemical Substances (AICS).

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**16/ OTHER INFORMATION**

**Date of preparation or last revision of MSDS.**
MSDS Version: 2, created June 2020.

References:

1/ Supplier Material Safety Data Sheets.
2/ Safe Work Australia website (June 2020).

Contact Person/Point: For further information or clarification, contact the Technical Manager, UCCC on Ph 03 9798 2650.

IMPORTANT ADVICE: This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS 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 the other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact the supplier listed in section 1 of the Safety Data Sheet. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

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