

Safety data sheet

according to 1907/2006/EC, Article 31

Date of issue: 02/10/2025

Trade name FORSHIELD-2KWB (ULTRA) Comp B. Date of Revision 11/11/2028

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name FORSHIELD-2KWB (ULTRA), Comp. B

Article number: 202560.02

1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

1.3 Details of the supplier of the safety data sheet

Australian Importer / Supplier:

Name: Calce Company Pty Ltd

Address: 24/13-15 Baker Street, Banksmeadow NSW 2019, Australia

Telephone: +61 2 9666 4492

Email: info@calcecompany.com

Manufacturer

Forcrete Ltd

6 Fitzmaurice Court Industrial Estate, Valley Side, Wymondham NR18 0NN

Tel: +441603455962

Mob: +447472483348

Information department:

Product Safety department: George Hunt Tel: +447472483348

E-Mail: sales@forcrete.co.uk

1.4 Emergency telephone number:

Emergency Services (Australia): 000

Poisons Information Centre (Australia): 13 11 26 (24 hours / 7 days)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Acute Tox. 4 H332 Harmful if inhaled.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Safety data sheet

according to 1907/2006/EC, Article 31

Date of issue: 02/10/2025

Trade name **FORSHIELD-2KWB (ULTRA) Comp B**. Date of Revision 11/11/2028

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



Signal word Warning

Hazard-determining components of labelling:

aliphatic polyisocyanate

Hydrophilic aliphatic polyisocyanate

hexamethylene-di-isocyanate

Hazard statements

H332 Harmful if inhaled.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

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

P280 Wear protective gloves.

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

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

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

EUH204 Contains isocyanates. May produce an allergic reaction.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

Description: Mixture of the substances listed below with harmless additions.

Dangerous components:

Safety data sheet

according to 1907/2006/EC, Article 31

Date of issue: 02/10/2025

Trade name FORSHIELD-2KWB (ULTRA) Comp B. Date of Revision 11/11/2028

CAS: 666723-27-9	aliphatic polyisocyanate Consisting of: 822-06-0 hexamethylene-di-isocyanate (<0.1%) Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335; Aquatic Chronic 3, H412	50-90%
CAS: 108-32-7	propylene carbonate Eye Irrit. 2, H319	20-50%
CAS: 160994-68-3	Hydrophilic aliphatic polyisocyanate Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335; Aquatic Chronic 3, H412, EUH204	10-20%
CAS: 822-06-0 EINECS: 212-485-8 Index number: 615-011-00-1 Reg.nr.: 01-2119457571-37	hexamethylene-di-isocyanate Acute Tox. 3, H331; Resp. Sens. 1, H334; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335, EUH204 Specific concentration limits: Resp. Sens. 1; H334: C ≥ 0.5 % Skin Sens. 1; H317: C ≥ 0.5 %	<0.1%

Additional information For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information When symptoms occur or in case of doubt, seek medical advice

After inhalation

Supply fresh air and call for doctor for safety reasons.

In case of unconsciousness bring patient into stable side position for transport.

After skin contact

If skin irritation continues, consult a doctor.

Wash immediately with water and soap and rinse thoroughly.

After eye contact Rinse opened eye for several minutes under running water.

After swallowing Seek medical treatment.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

symptomatic treatment

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents Use firefighting measures that suit the environment.

5.2 Special hazards arising from the substance or mixture

May be released in case of fire

Carbon monoxide (CO)

Under certain fire conditions, traces of other toxic substances cannot be excluded.

5.3 Advice for firefighters

Safety data sheet

according to 1907/2006/EC, Article 31

Date of issue: 02/10/2025

Trade name FORSHIELD-2KWB (ULTRA) Comp B. Date of Revision 11/11/2028

Protective equipment: No special measures required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Particular danger of slipping on leaked/spilled product

6.2 Environmental precautions:

Do not allow to enter the ground/soil.

Do not allow product to reach sewage system or water bodies.

Inform responsible authorities in case product reaches bodies of water or sewage system.

Dilute with plenty of water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation

6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaust in workplaces.

Avoid the formation of aerosols.

7.2 Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and containers: No special requirements.

Information on storage in a common storage facility: none

Further information about storage conditions: Protect from frost.

7.3 Specific end use(s) No further relevant information available

SECTION 8: Exposure controls/personal protection

Additional information about design of technical systems: No further data; see item 7.

8.1 Control parameters

Exposure limit values:

822-06-0 hexamethylene-di-isocyanate

WEL Short-term value: 0.07 mg/m³

Long-term value: 0.02 mg/m³

Sen; as -NCO

Safety data sheet

according to 1907/2006/EC, Article 31

Date of issue: 02/10/2025

Trade name FORSHIELD-2KWB (ULTRA) Comp B. Date of Revision 11/11/2028

Ingredients with biological limit values:

822-06-0 hexamethylene-di-isocyanate

BMGV 1 µmol creatinine/mol

Medium: urine

Sampling time: At the end of the period of exposure

Parameter: isocyanate-derived diamine

Additional information: The lists that were valid during compilation were used as a basis.

8.2 Exposure controls

Personal protective equipment

General protective and hygienic measures

Do not eat, drink or smoke while working.

Use skin protection cream for preventive skin protection.

Keep away from food, beverages and animal feed.

Immediately remove soiled, saturated clothing.

Wash hands before pauses and after work.

Avoid contact with eyes and skin.

The following indication regarding the personal protective equipment are to be considered as suggestions. The selection of the necessary personal protective equipment is to be evaluated by the employer depending on the types of operations and the local circumstances. If a risk assessment onsite shows that there is no risk for employees, the personal protective equipment is not required or the amount of the PPE can be adapted accordingly.

Respiratory equipment:

In case of insufficient ventilation/or spraying procedures: Respiratory equipment with particle filter P 2

In case of brief exposure or low pollution load, use respiratory protection equipment with filter. In case of intensive or longer exposure, use self-contained respiratory protection equipment.

Protection of hands:

Protective gloves.

The glove material must be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the Degradation

Material of gloves

Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The determined penetration times according to EN 16523-1:2015 are not performed under practical

Safety data sheet

according to 1907/2006/EC, Article 31

Date of issue: 02/10/2025

Trade name **FORSHIELD-2KWB (ULTRA) Comp B**. Date of Revision **11/11/2028**

conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

The exact break through time must be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: if there is a risk of splashes

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
General Information
Appearance: Form: Fluid Colour: Clear Odour: Weak, Characteristic Odour threshold: Not determined.
pH-value at 20°C: 9
Change in condition Melting point/freezing point: Not determined Initial boiling point and boiling range: Not determined
Flash point: > 100°C
Inflammability (solid, gaseous) Not applicable.
Ignition temperature: not applicable
Decomposition temperature: Not determined.
Self-inflammability: Product is not self-igniting.
Explosive properties: Product is not explosive.
Explosive Limits: Lower: Not determined. Upper: Not determined.
Vapour pressure at 20°C: 23 hPa
Density at 20 °C: 1.176 g/cm ³ Relative density: Not determined. Vapour density: Not determined. Evaporation rate: Not determined.
Solubility in / Miscibility with Water: Fully miscible
Distribution coefficient (n-octanol/water): Not determined.
Viscosity: Dynamic at 20°C: Not determined. Kinematic: 46 s (DIN 53211/4)
Organic separation test: 29.9%
VOC (EC): 29.9%
9.2 Other information No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

Safety data sheet

according to 1907/2006/EC, Article 31

Date of issue: 02/10/2025

Trade name **FORSHIELD-2KWB (ULTRA) Comp B**. Date of Revision 11/11/2028

No decomposition if handled and stored according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known.

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: No dangerous decomposition products known

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity: Acute toxicity Harmful if inhaled.

LD/LC50 values relevant for classification:

108-32-7 propylene carbonate

Oral LD50 29,000 mg/kg (rat)

822-06-0 hexamethylene-di-isocyanate

Oral LD50 738 mg/kg (rat)

Dermal LD50 593 mg/kg (rat)

Serious eye damage/irritation Causes serious eye irritation.

Respiratory or skin sensitisation May cause an allergic skin reaction.

STOT-single exposure May cause respiratory irritation.

Additional toxicological information:

Repeated dose toxicity Undetermined.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) Undetermined.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability The solvent is biodegradable.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

Ecotoxicological effects:

Remark: Harmful for fish

General notes:

Do not allow product to reach ground water, bodies of water or sewage system.

Hazardous to drinking water even if small quantities leak into soil.

Also toxic for fish and plankton in bodies of water.

Harmful for aquatic organisms

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Safety data sheet

according to 1907/2006/EC, Article 31

Date of issue: 02/10/2025

Trade name FORSHIELD-2KWB (ULTRA) Comp B. Date of Revision 11/11/2028

12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

Recommendation

Liquid material remains are to be disposed of at collection facilities for old varnishes.

Hardened material can be disposed of as building rubble.

The given refuse codes are recommendations based upon the intended use of the product. Because of special use and disposal conditions at the user's, other codes may apply under other conditions.

European waste catalogue

08 01 19 - aqueous suspensions containing paint or varnish containing organic solvents or other hazardous substances

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN-Number ADR, IMDG, IATA UN3082	This product is not dangerous according to ADR, ADN, IMDG, IATA. VOID
14.2 UN proper shipping name ADR IMDG IATA	VOID
14.3 Transport hazard class(es) ADR, IMDG, IATA Class	VOID
14.4 Packing group ADR, IMDG, IATA	VOID
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
UN "Model Regulation":	VOID

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

Safety data sheet

according to 1907/2006/EC, Article 31

Date of issue: 02/10/2025

Trade name FORSHIELD-2KWB (ULTRA) Comp B. Date of Revision 11/11/2028

SECTION 16: Other information

Delivery specifications are found in the respective Technical Information Sheets.

This data is based on our present state of knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally valid contractual relationship.

Relevant phrases

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

EUH204 Contains isocyanates. May produce an allergic reaction.

Classification according to Regulation (EC) No 1272/2008 Calculation method

Department issuing data specification sheet: Product Safety department / EHS

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the

International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Resp. Sens. 1: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3