



## Geocel Joiners Mate Mitre Bond Adhesive #113-020

RS Components Pty Ltd

Chemwatch: 5162-90

Version No: 2.1.1.1

Safety Data Sheet according to WHS and ADG requirements

Chemwatch Hazard Alert Code: 2

Issue Date: 11/03/2015

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Initial Date: Not Available

L.GHS.AUS.EN

### SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

#### Product Identifier

|                               |                                                                                                        |
|-------------------------------|--------------------------------------------------------------------------------------------------------|
| Product name                  | Geocel Joiners Mate Mitre Bond Adhesive #113-020                                                       |
| Synonyms                      | Manufacturer's Code: 113-020                                                                           |
| Proper shipping name          | AVIATION REGULATED LIQUID, N.O.S. Not subject to this Code (see SP 106) (contains ethyl cyanoacrylate) |
| Other means of identification | Not Available                                                                                          |

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

|                          |                      |
|--------------------------|----------------------|
| Relevant identified uses | Adhesives, sealants. |
|--------------------------|----------------------|

#### Details of the manufacturer/importer

|                         |                                     |
|-------------------------|-------------------------------------|
| Registered company name | RS Components Pty Ltd               |
| Address                 | 25 Pavesi Street NSW 2164 Australia |
| Telephone               | 1300 656 636                        |
| Fax                     | 1300 656 696                        |
| Website                 | Not Available                       |
| Email                   | Not Available                       |

#### Emergency telephone number

|                                   |               |
|-----------------------------------|---------------|
| Association / Organisation        | Not Available |
| Emergency telephone numbers       | 1800 039 008  |
| Other emergency telephone numbers | 03 95733112   |

### SECTION 2 HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

**HAZARDOUS CHEMICAL. DANGEROUS GOODS.** According to the Model WHS Regulations and the ADG Code.

COMBUSTIBLE LIQUID, regulated for storage purposes only

#### CHEMWATCH HAZARD RATINGS

|              | Min | Max |
|--------------|-----|-----|
| Flammability | 1   | 1   |
| Toxicity     | 1   | 1   |
| Body Contact | 2   | 2   |
| Reactivity   | 1   | 1   |
| Chronic      | 0   | 0   |

0 = Minimum  
1 = Low  
2 = Moderate  
3 = High  
4 = Extreme

|                        |                                                                                                                                                                                               |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Poisons Schedule       | S5                                                                                                                                                                                            |
| GHS Classification [1] | Flammable Liquid Category 4, Oxidizing Liquid Category 3, Skin Corrosion/Irritation Category 2, Eye Irritation Category 2, STOT - SE (Resp. Irr.) Category 3, Acute Aquatic Hazard Category 3 |
| Legend:                | 1. Classified by Chemwatch; 2. Classification drawn from HSIS ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI                                                                |

#### Label elements

Continued...

## Geocel Joiners Mate Mitre Bond Adhesive #113-020

GHS label elements



SIGNAL WORD

WARNING

## Hazard statement(s)

|      |                                  |
|------|----------------------------------|
| H227 | Combustible liquid               |
| H272 | May intensify fire; oxidizer     |
| H315 | Causes skin irritation           |
| H319 | Causes serious eye irritation    |
| H335 | May cause respiratory irritation |
| H402 | Harmful to aquatic life          |

## Precautionary statement(s) Prevention

|      |                                                                                                |
|------|------------------------------------------------------------------------------------------------|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P221 | Take any precaution to avoid mixing with combustibles/organic material                         |
| P271 | Use only outdoors or in a well-ventilated area.                                                |
| P220 | Keep/Store away from clothing/organic material/combustible materials.                          |

## Precautionary statement(s) Response

|                |                                                                                                                                  |
|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| P362           | Take off contaminated clothing.                                                                                                  |
| P370+P378      | In case of fire: Use alcohol resistant foam or fine spray/water fog for extinction.                                              |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P312           | Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.                                                            |

## Precautionary statement(s) Storage

|           |                                                                  |
|-----------|------------------------------------------------------------------|
| P403+P235 | Store in a well-ventilated place. Keep cool.                     |
| P405      | Store locked up.                                                 |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |

## Precautionary statement(s) Disposal

|      |                                                                                                              |
|------|--------------------------------------------------------------------------------------------------------------|
| P501 | Dispose of contents/container to authorised chemical landfill or if organic to high temperature incineration |
|------|--------------------------------------------------------------------------------------------------------------|

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

## Substances

See section below for composition of Mixtures

## Mixtures

| CAS No    | %[weight] | Name                       |
|-----------|-----------|----------------------------|
| 7085-85-0 | >90       | <u>ethyl cyanoacrylate</u> |
| 123-31-9  | <1        | <u>hydroquinone</u>        |

## SECTION 4 FIRST AID MEASURES

## Description of first aid measures

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye Contact  | <b>Eyelid Adhesion</b> <ul style="list-style-type: none"> <li>Wash thoroughly with water and apply moist pad; maintain in position.</li> <li><b>DO NOT force separation.</b></li> <li>Transport to hospital, or doctor without delay.</li> <li>Minor eye contamination should be treated by copious washing with water or 1% sodium carbonate solution.</li> <li>The eye will generally open without further action, typically in one to two days. there should be no residual damage.</li> <li>Adhesive introduced</li> <li>Removal of contact lenses after eye injury should only be undertaken by skilled personnel.</li> </ul> <b>Adhesive in the Eye:</b> <ul style="list-style-type: none"> <li>Adhesive will attach itself to eye proteins and will disassociate from these over intermittent periods, usually within several hours.</li> <li>This will result in weeping until clearance of the protein complex.</li> <li>It is important to understand that disassociation will normally occur within a matter of hours even with gross contamination.</li> </ul> |
| Skin Contact | <p>Cyanoacrylate adhesives is a very fast setting and strong, they bond human tissues including skin in seconds. Experience shows that accidents involving cyanoacrylates are best handled by passive, non-surgical first aid.</p> <b>Skin Contact:</b> <ul style="list-style-type: none"> <li>Remove excessive adhesive.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | <ul style="list-style-type: none"> <li>▶ Soak in warm water - the adhesive should loosen from the skin in several hours. Dried adhesive does not present a health hazard.</li> <li>▶ Contact with clothes, fabric, rags or tissues may generate heat, and strong irritating odours; skin burns may also ensue.</li> </ul> <p><b>Skin Adhesion:</b></p> <ul style="list-style-type: none"> <li>▶ <b>IMMEDIATELY</b> immerse affected areas in warm soapy water.</li> <li>▶ <b>DO NOT</b> force bonded surfaces apart.</li> <li>▶ Use a gentle rolling action to peel surfaces apart if possible. It may be necessary to use a blunt edge such as a spatula or spoon handle. Do NOT attempt to pull the surfaces apart with a direct opposing action.</li> <li>▶ Remove any cured material with warm, soapy water.</li> <li>▶ Seek medical attention without delay.</li> <li>▶ A solvent such as acetone may be used (with care!) to separate bonded skin surfaces. <b>NEVER</b> use solvent near eyes, mouth, cuts, or abrasions.</li> </ul>                                                               |
| Inhalation | <ul style="list-style-type: none"> <li>▶ If fumes or combustion products are inhaled remove from contaminated area.</li> <li>▶ Lay patient down. Keep warm and rested.</li> <li>▶ Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>▶ Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>▶ Transport to hospital, or doctor, without delay.</li> <li>▶ If fumes or combustion products are inhaled remove from contaminated area.</li> <li>▶ Lay patient down. Keep warm and rested.</li> <li>▶ Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>▶ Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>▶ Transport to hospital, or doctor.</li> </ul> |
| Ingestion  | <ul style="list-style-type: none"> <li>▶ Immediately give a glass of water.</li> <li>▶ First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> <li>▶ For material bonded in the mouth seek medical/dental attention.</li> <li>▶ If lips are accidentally stuck together apply lots of warm water and encourage maximum wetting and pressure from saliva inside the mouth.</li> <li>▶ Peel or roll lips apart.</li> <li>▶ <b>Do NOT attempt to pull the lips with direct opposing action.</b></li> <li>▶ It is almost impossible to swallow cyanoacrylates. The adhesive solidifies and adheres in the mouth. Saliva will lip the adhesion in one or two days.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                 |

## Indication of any immediate medical attention and special treatment needed

It should never be necessary to use surgical means to separate tissues which become accidentally bonded. The action of physiological fluids or warm soapy water will cause this adhesive to eventually fail.  
Treat symptomatically.

## SECTION 5 FIREFIGHTING MEASURES

## Extinguishing media

|  |                                                                                                                                                                 |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <ul style="list-style-type: none"> <li>▶ Foam.</li> <li>▶ Dry chemical powder.</li> <li>▶ BCF (where regulations permit).</li> <li>▶ Carbon dioxide.</li> </ul> |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Special hazards arising from the substrate or mixture

|                      |                                                                                                                                                                                            |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fire Incompatibility | <ul style="list-style-type: none"> <li>▶ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result</li> </ul> |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Advice for firefighters

|                       |                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fire Fighting         | <ul style="list-style-type: none"> <li>▶ Alert Fire Brigade and tell them location and nature of hazard.</li> <li>▶ Wear full body protective clothing with breathing apparatus.</li> <li>▶ Prevent, by any means available, spillage from entering drains or water course.</li> <li>▶ Use water delivered as a fine spray to control fire and cool adjacent area.</li> </ul> |
| Fire/Explosion Hazard | <ul style="list-style-type: none"> <li>▶ Combustible.</li> <li>▶ Slight fire hazard when exposed to heat or flame.</li> <li>▶ Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>▶ On combustion, may emit toxic fumes of carbon monoxide (CO).</li> </ul>                                                                       |

## SECTION 6 ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

|              |                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Minor Spills | <p>If cloth has been used to wipe up spills, immediately soak the cloth in water to produce polymerisation and prevent possibility of autoignition.</p> <ul style="list-style-type: none"> <li>▶ Clean up all spills immediately.</li> <li>▶ Avoid breathing vapours and contact with skin and eyes.</li> <li>▶ Control personal contact with the substance, by using protective equipment.</li> </ul> |
| Major Spills | <p>Moderate hazard.</p> <ul style="list-style-type: none"> <li>▶ Clear area of personnel and move upwind.</li> <li>▶ Alert Fire Brigade and tell them location and nature of hazard.</li> <li>▶ Wear breathing apparatus plus protective gloves.</li> </ul>                                                                                                                                            |
|              | <p>Personal Protective Equipment advice is contained in Section 8 of the MSDS.</p>                                                                                                                                                                                                                                                                                                                     |

## SECTION 7 HANDLING AND STORAGE

## Precautions for safe handling

|               |                                                                                                                                                                                              |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Safe handling | <ul style="list-style-type: none"> <li>▶ <b>DO NOT</b> allow clothing wet with material to stay in contact with skin</li> <li>▶ Avoid all personal contact, including inhalation.</li> </ul> |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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|                   |                                                                                                                                                                                                                                                                  |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   | <ul style="list-style-type: none"> <li>▶ Wear protective clothing when risk of exposure occurs.</li> <li>▶ Use in a well-ventilated area.</li> <li>▶ Prevent concentration in hollows and sumps.</li> </ul>                                                      |
| Other information | <ul style="list-style-type: none"> <li>▶ Store in original containers.</li> <li>▶ Keep containers securely sealed.</li> <li>▶ Store in a cool, dry, well-ventilated area.</li> <li>▶ Store away from incompatible materials and foodstuff containers.</li> </ul> |

## Conditions for safe storage, including any incompatibilities

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable container      | <ul style="list-style-type: none"> <li>▶ Metal can or drum</li> <li>▶ Packaging as recommended by manufacturer.</li> <li>▶ Check all containers are clearly labelled and free from leaks.</li> </ul>                                                                                                                                                                                                                                                                                                                                           |
| Storage incompatibility | <p>For cyanoacrylates:</p> <ul style="list-style-type: none"> <li>▶ Avoid contact with acids, bases, amines.</li> <li>▶ Avoid contact with clothes, fabric, rags (especially cotton and wool) rubber or paper; contact may cause polymerisation.</li> <li>▶ Cyanoacrylate adhesives undergo anionic polymerization in the presence of a weak base, such as water, and are stabilized through the addition of a weak acid. The stabiliser is usually in the form of a weak acidic gas such as SO<sub>2</sub>, NO, or BF<sub>3</sub>.</li> </ul> |

## PACKAGE MATERIAL INCOMPATIBILITIES

Not Available

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

## Control parameters

## OCCUPATIONAL EXPOSURE LIMITS (OEL)

## INGREDIENT DATA

| Source                       | Ingredient   | Material name | TWA                 | STEL          | Peak          | Notes         |
|------------------------------|--------------|---------------|---------------------|---------------|---------------|---------------|
| Australia Exposure Standards | hydroquinone | Hydroquinone  | 2 mg/m <sup>3</sup> | Not Available | Not Available | Not Available |

## EMERGENCY LIMITS

| Ingredient   | Material name | TEEL-1                | TEEL-2               | TEEL-3               |
|--------------|---------------|-----------------------|----------------------|----------------------|
| hydroquinone | Hydroquinone  | 1.8 mg/m <sup>3</sup> | 20 mg/m <sup>3</sup> | 32 mg/m <sup>3</sup> |

| Ingredient          | Original IDLH                           | Revised IDLH         |
|---------------------|-----------------------------------------|----------------------|
| ethyl cyanoacrylate | Not Available                           | Not Available        |
| hydroquinone        | Unknown mg/m <sup>3</sup> / Unknown ppm | 50 mg/m <sup>3</sup> |

## MATERIAL DATA

The recommended TLV-TWA for hydroquinone takes into account the toxicology of hydroquinone and experience of industrial exposures to benzenediols. Exposure at or below the limit is thought to minimise the risk to workers of eye injury, dermatitis and central nervous system effects. A short-term duration exposure value has not been recommended, because no quantitative data as to the levels of hydroquinone which produce eye irritation or more serious corneal changes has been identified.

## Exposure controls

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Appropriate engineering controls | <p>Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.</p> <p>The basic types of engineering controls are:</p> <p>Process controls which involve changing the way a job activity or process is done to reduce the risk.</p> <p>Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.</p> |
| Personal protection              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Eye and face protection          | <ul style="list-style-type: none"> <li>▶ Safety glasses with side shields.</li> <li>▶ Chemical goggles.</li> <li>▶ Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.</li> </ul>                                                                                                                                                                                                                                                                                                          |
| Skin protection                  | See Hand protection below                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Hands/feet protection            | <ul style="list-style-type: none"> <li>▶ Wear chemical protective gloves, e.g. PVC.</li> <li>▶ Wear safety footwear or safety gumboots, e.g. Rubber</li> </ul> <p><b>NOTE:</b></p> <ul style="list-style-type: none"> <li>▶ The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.</li> <li>▶ Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.</li> </ul>                                                                                                                                     |
| Body protection                  | See Other protection below                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Other protection                 | <ul style="list-style-type: none"> <li>▶ Overalls.</li> <li>▶ P.V.C. apron.</li> <li>▶ Barrier cream.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Thermal hazards                  | Not Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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## Recommended material(s)

## GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the **computer-generated** selection:

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| Material         | CPI |
|------------------|-----|
| NATURAL RUBBER   | C   |
| NATURAL+NEOPRENE | C   |
| NEOPRENE         | C   |
| NEOPRENE/NATURAL | C   |
| NITRILE          | C   |
| PVC              | C   |

\* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

**NOTE:** As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

## Respiratory protection

Type A-P Filter of sufficient capacity (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required.

Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

| Required Minimum Protection Factor | Half-Face Respirator | Full-Face Respirator | Powered Air Respirator  |
|------------------------------------|----------------------|----------------------|-------------------------|
| up to 10 x ES                      | A-AUS P2             | -                    | A-PAPR-AUS / Class 1 P2 |
| up to 50 x ES                      | -                    | A-AUS / Class 1 P2   | -                       |
| up to 100 x ES                     | -                    | A-2 P2               | A-PAPR-2 P2 ^           |

^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

| Appearance                                   | Colourless liquid with a pungent odour. |                                         |                |
|----------------------------------------------|-----------------------------------------|-----------------------------------------|----------------|
| Physical state                               | Liquid                                  | Relative density (Water = 1)            | Not Available  |
| Odour                                        | Not Available                           | Partition coefficient n-octanol / water | Not Available  |
| Odour threshold                              | Not Available                           | Auto-ignition temperature (°C)          | Not Available  |
| pH (as supplied)                             | Not Available                           | Decomposition temperature               | Not Available  |
| Melting point / freezing point (°C)          | Not Available                           | Viscosity (cSt)                         | Not Available  |
| Initial boiling point and boiling range (°C) | 100                                     | Molecular weight (g/mol)                | Not Applicable |
| Flash point (°C)                             | 81                                      | Taste                                   | Not Available  |
| Evaporation rate                             | Not Available                           | Explosive properties                    | Not Available  |
| Flammability                                 | Combustible.                            | Oxidising properties                    | Not Available  |
| Upper Explosive Limit (%)                    | Not Available                           | Surface Tension (dyn/cm or mN/m)        | Not Available  |
| Lower Explosive Limit (%)                    | Not Available                           | Volatile Component (%vol)               | Not Available  |
| Vapour pressure (kPa)                        | Not Available                           | Gas group                               | Not Available  |
| Solubility in water (g/L)                    | Reacts                                  | pH as a solution (1%)                   | Not Available  |
| Vapour density (Air = 1)                     | Not Available                           | VOC g/L                                 | Not Available  |

## SECTION 10 STABILITY AND REACTIVITY

|                                    |                                                                                                                                                                                                      |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                         | See section 7                                                                                                                                                                                        |
| Chemical stability                 | <ul style="list-style-type: none"> <li>▶ Unstable in the presence of incompatible materials.</li> <li>▶ Product is considered stable.</li> <li>▶ Hazardous polymerisation will not occur.</li> </ul> |
| Possibility of hazardous reactions | See section 7                                                                                                                                                                                        |
| Conditions to avoid                | See section 7                                                                                                                                                                                        |
| Incompatible materials             | See section 7                                                                                                                                                                                        |
| Hazardous decomposition products   | See section 5                                                                                                                                                                                        |

## SECTION 11 TOXICOLOGICAL INFORMATION

## Information on toxicological effects

|         |                                                                                                                                                                      |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inhaled | Evidence shows, or practical experience predicts, that the material produces irritation of the respiratory system, in a substantial number of individuals, following |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              | inhalation. In contrast to most organs, the lung is able to respond to a chemical insult by first removing or neutralising the irritant and then repairing the damage. The repair process, which initially evolved to protect mammalian lungs from foreign matter and antigens, may however, produce further lung damage resulting in the impairment of gas exchange, the primary function of the lungs. Respiratory tract irritation often results in an inflammatory response involving the recruitment and activation of many cell types, mainly derived from the vascular system.                                                                                                                                                                                                                                                                                          |
| Ingestion    | Uncured cyanoacrylates are difficult to swallow as saliva cures the surface of the adhesive with negligible bonding. The cured material is considered to be non-hazardous.<br>The material has <b>NOT</b> been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Skin Contact | Evidence exists, or practical experience predicts, that the material either produces inflammation of the skin in a substantial number of individuals following direct contact, and/or produces significant inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation being present twenty-four hours or more after the end of the exposure period. Skin irritation may also be present after prolonged or repeated exposure; this may result in a form of contact dermatitis (nonallergic). The dermatitis is often characterised by skin redness (erythema) and swelling (oedema) which may progress to blistering (vesiculation), scaling and thickening of the epidermis. At the microscopic level there may be intercellular oedema of the spongy layer of the skin (spongiosis) and intracellular oedema of the epidermis. |
| Eye          | Evidence exists, or practical experience predicts, that the material may cause eye irritation in a substantial number of individuals and/or may produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals.<br>Repeated or prolonged eye contact may cause inflammation characterised by temporary redness (similar to windburn) of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur.<br>Vapour exposure to 40-60 ppm cyanoacrylate is objectionable producing lachrymation, rhinorrhoea and blurred vision. The material is capable of gluing the eyelids together.                                                                                                                                                     |
| Chronic      | Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems.<br>Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems.<br>Limited evidence shows that inhalation of the material is capable of inducing a sensitisation reaction in a significant number of individuals at a greater frequency than would be expected from the response of a normal population.<br>Pulmonary sensitisation, resulting in hyperactive airway dysfunction and pulmonary allergy may be accompanied by fatigue, malaise and aching.                                                                                                                                                                           |

|                                                  |                                                                                                                                                                                                                               |                                                      |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| Geocel Joiners Mate Mitre Bond Adhesive #113-020 | TOXICITY                                                                                                                                                                                                                      | IRRITATION                                           |
|                                                  | Not Available                                                                                                                                                                                                                 | Not Available                                        |
| ethyl cyanoacrylate                              | TOXICITY                                                                                                                                                                                                                      | IRRITATION                                           |
|                                                  | Dermal (rabbit) LD50: 233.2 mg/kg <sup>[2]</sup><br>Oral (rat) LD50: 190.8 mg/kg <sup>[2]</sup>                                                                                                                               | [Manufacturer]                                       |
| hydroquinone                                     | TOXICITY                                                                                                                                                                                                                      | IRRITATION                                           |
|                                                  | Dermal (rabbit) LD50: >2000 mg/kg/24H <sup>[2]</sup><br>Oral (rat) LD50: 302 mg/kg <sup>[2]</sup>                                                                                                                             | Skin (human): 2% - mild<br>Skin (human): 5% - SEVERE |
| Legend:                                          | 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's msds. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances |                                                      |

|                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ETHYL CYANOACRYLATE                                                    | * [AIHAAP]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| HYDROQUINONE                                                           | The following information refers to contact allergens as a group and may not be specific to this product.<br>Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions.                                                                                                                                                                                                                                                                                                                                                                                |
| Geocel Joiners Mate Mitre Bond Adhesive #113-020 & ETHYL CYANOACRYLATE | Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS. |

|                                   |   |                          |   |
|-----------------------------------|---|--------------------------|---|
| Acute Toxicity                    | ☐ | Carcinogenicity          | ☐ |
| Skin Irritation/Corrosion         | ✔ | Reproductivity           | ☐ |
| Serious Eye Damage/Irritation     | ✔ | STOT - Single Exposure   | ✔ |
| Respiratory or Skin sensitisation | ☐ | STOT - Repeated Exposure | ☐ |
| Mutagenicity                      | ☐ | Aspiration Hazard        | ☐ |

Legend: ✔ – Data required to make classification available  
✘ – Data available but does not fill the criteria for classification  
☐ – Data Not Available to make classification

CMR STATUS  
Not Applicable

SECTION 12 ECOLOGICAL INFORMATION

## Geocel Joiners Mate Mitre Bond Adhesive #113-020

## Toxicity

NOT AVAILABLE

| Ingredient          | Endpoint      | Test Duration | Effect        | Value         | Species       | BCF           |
|---------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| ethyl cyanoacrylate | Not Available | Not Available | Not Available | Not Available | Not Available | Not Available |
| hydroquinone        | Not Available | Not Available | Not Available | Not Available | Not Available | Not Available |

Harmful to aquatic organisms.

Substances containing unsaturated carbons are ubiquitous in indoor environments. They result from many sources (see below). Most are reactive with environmental ozone and many produce stable products which are thought to adversely affect human health. The potential for surfaces in an enclosed space to facilitate reactions should be considered.

## Persistence and degradability

| Ingredient          | Persistence: Water/Soil | Persistence: Air |
|---------------------|-------------------------|------------------|
| ethyl cyanoacrylate | LOW                     | LOW              |
| hydroquinone        | LOW                     | LOW              |

## Bioaccumulative potential

| Ingredient          | Bioaccumulation       |
|---------------------|-----------------------|
| ethyl cyanoacrylate | LOW (LogKOW = 1.4174) |
| hydroquinone        | LOW (BCF = 65)        |

## Mobility in soil

| Ingredient          | Mobility          |
|---------------------|-------------------|
| ethyl cyanoacrylate | LOW (KOC = 6.847) |
| hydroquinone        | LOW (KOC = 434)   |

## SECTION 13 DISPOSAL CONSIDERATIONS

## Waste treatment methods

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product / Packaging disposal | <p>Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.</p> <p>A Hierarchy of Controls seems to be common - the user should investigate:</p> <ul style="list-style-type: none"> <li>▶ Reduction</li> <li>▶ Reuse</li> <li>▶ Recycling</li> <li>▶ Disposal (if all else fails)</li> </ul> <p>This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use.</p> |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## SECTION 14 TRANSPORT INFORMATION

## Labels Required

|                  |                                                                                     |
|------------------|-------------------------------------------------------------------------------------|
|                  |  |
| Marine Pollutant | NO                                                                                  |
| HAZCHEM          | 2Z                                                                                  |

## Land transport (ADG)

|                              |                                                                                                                          |                    |             |                  |                |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------|-------------|------------------|----------------|
| UN number                    | 3334                                                                                                                     |                    |             |                  |                |
| Packing group                | Not Applicable                                                                                                           |                    |             |                  |                |
| UN proper shipping name      | AVIATION REGULATED LIQUID, N.O.S. Not subject to this Code (see SP 106) (contains ethyl cyanoacrylate)                   |                    |             |                  |                |
| Environmental hazard         | No relevant data                                                                                                         |                    |             |                  |                |
| Transport hazard class(es)   | <table> <tr> <td>Class</td><td>9</td></tr> <tr> <td>Subrisk</td><td>Not Applicable</td></tr> </table>                    | Class              | 9           | Subrisk          | Not Applicable |
| Class                        | 9                                                                                                                        |                    |             |                  |                |
| Subrisk                      | Not Applicable                                                                                                           |                    |             |                  |                |
| Special precautions for user | <table> <tr> <td>Special provisions</td><td>106 274 276</td></tr> <tr> <td>Limited quantity</td><td>0</td></tr> </table> | Special provisions | 106 274 276 | Limited quantity | 0              |
| Special provisions           | 106 274 276                                                                                                              |                    |             |                  |                |
| Limited quantity             | 0                                                                                                                        |                    |             |                  |                |

## Air transport (ICAO-IATA / DGR)

|                         |                                                                    |
|-------------------------|--------------------------------------------------------------------|
| UN number               | 3334                                                               |
| Packing group           | Not Applicable                                                     |
| UN proper shipping name | Aviation regulated liquid, n.o.s. * (contains ethyl cyanoacrylate) |
| Environmental hazard    | No relevant data                                                   |

## Geocel Joiners Mate Mitre Bond Adhesive #113-020

|                              |                                                           |                |
|------------------------------|-----------------------------------------------------------|----------------|
| Transport hazard class(es)   | ICAO/IATA Class                                           | 9              |
|                              | ICAO / IATA Subrisk                                       | Not Applicable |
|                              | ERG Code                                                  | 9A             |
| Special precautions for user | Special provisions                                        | A27            |
|                              | Cargo Only Packing Instructions                           | 964            |
|                              | Cargo Only Maximum Qty / Pack                             | 450L           |
|                              | Passenger and Cargo Packing Instructions                  | 964            |
|                              | Passenger and Cargo Maximum Qty / Pack                    | 450L           |
|                              | Passenger and Cargo Limited Quantity Packing Instructions | Y964           |
|                              | Passenger and Cargo Limited Maximum Qty / Pack            | 30 kg G        |

## Sea transport (IMDG-Code / GGVSee)

|                              |                                                                  |                |  |
|------------------------------|------------------------------------------------------------------|----------------|--|
| UN number                    | 3334                                                             |                |  |
| Packing group                | Not Applicable                                                   |                |  |
| UN proper shipping name      | AVIATION REGULATED LIQUID, N.O.S. (contains ethyl cyanoacrylate) |                |  |
| Environmental hazard         | Not Applicable                                                   |                |  |
| Transport hazard class(es)   | IMDG Class                                                       | 9              |  |
|                              | IMDG Subrisk                                                     | Not Applicable |  |
| Special precautions for user | EMS Number                                                       | Not Applicable |  |
|                              | Special provisions                                               | 960            |  |
|                              | Limited Quantities                                               | Not Applicable |  |

## SECTION 15 REGULATORY INFORMATION

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

|                                                                           |                                                                                                                                                                                                                                                                |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ethyl cyanoacrylate(7085-85-0) is found on the following regulatory lists | "Australia Inventory of Chemical Substances (AICS)", "Australia Hazardous Substances Information System - Consolidated Lists"                                                                                                                                  |
| hydroquinone(123-31-9) is found on the following regulatory lists         | "Australia Exposure Standards", "Australia Inventory of Chemical Substances (AICS)", "International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs", "Australia Hazardous Substances Information System - Consolidated Lists" |

| National Inventory            | Status                                                                                                                                                                                |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Australia - AICS              | Y                                                                                                                                                                                     |
| Canada - DSL                  | Y                                                                                                                                                                                     |
| China - IECSC                 | Y                                                                                                                                                                                     |
| Europe - EINEC / ELINCS / NLP | Y                                                                                                                                                                                     |
| Japan - ENCS                  | Y                                                                                                                                                                                     |
| Korea - KECI                  | Y                                                                                                                                                                                     |
| New Zealand - NZIoC           | Y                                                                                                                                                                                     |
| Philippines - PICCS           | Y                                                                                                                                                                                     |
| USA - TSCA                    | Y                                                                                                                                                                                     |
| <b>Legend:</b>                | Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets) |

## SECTION 16 OTHER INFORMATION

## Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at:

[www.chemwatch.net](http://www.chemwatch.net)

The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

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TEL (+61 3) 9572 4700.



## Geocel Joiners Mate Mitre Bond Activator #113-020

RS Components Pty Ltd

Chemwatch: 5162-91

Version No: 2.1.1.1

Safety Data Sheet according to WHS and ADG requirements

Chemwatch Hazard Alert Code: 3

Issue Date: 11/03/2015

Print Date: 15/05/2015

Initial Date: Not Available

L.GHS.AUS.EN

### SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

#### Product Identifier

|                               |                                                   |
|-------------------------------|---------------------------------------------------|
| Product name                  | Geocel Joiners Mate Mitre Bond Activator #113-020 |
| Synonyms                      | Manufacturer's Code: 113-020                      |
| Proper shipping name          | AEROSOLS                                          |
| Other means of identification | Not Available                                     |

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

|                          |                                                                                           |
|--------------------------|-------------------------------------------------------------------------------------------|
| Relevant identified uses | Application is by spray atomisation from a hand held aerosol pack<br>Adhesives, sealants. |
|--------------------------|-------------------------------------------------------------------------------------------|

#### Details of the manufacturer/importer

|                         |                                     |
|-------------------------|-------------------------------------|
| Registered company name | RS Components Pty Ltd               |
| Address                 | 25 Pavese Street NSW 2164 Australia |
| Telephone               | 1300 656 636                        |
| Fax                     | 1300 656 696                        |
| Website                 | Not Available                       |
| Email                   | Not Available                       |

#### Emergency telephone number

|                                   |               |
|-----------------------------------|---------------|
| Association / Organisation        | Not Available |
| Emergency telephone numbers       | 1800 039 008  |
| Other emergency telephone numbers | 03 95733112   |

### SECTION 2 HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

**HAZARDOUS CHEMICAL. DANGEROUS GOODS.** According to the Model WHS Regulations and the ADG Code.

#### CHEMWATCH HAZARD RATINGS

|              | Min | Max |
|--------------|-----|-----|
| Flammability | 3   | 4   |
| Toxicity     | 2   | 3   |
| Body Contact | 2   | 3   |
| Reactivity   | 1   | 2   |
| Chronic      | 2   | 3   |

0 = Minimum  
1 = Low  
2 = Moderate  
3 = High  
4 = Extreme

|                        |                                                                                                                                                                                                                                 |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Poisons Schedule       | Not Applicable                                                                                                                                                                                                                  |
| GHS Classification [1] | Flammable Aerosol Category 1, Skin Corrosion/Irritation Category 2, Reproductive Toxicity Category 2, STOT - SE (Narcosis) Category 3, STOT - RE Category 2, Acute Aquatic Hazard Category 2, Chronic Aquatic Hazard Category 2 |
| Legend:                | 1. Classified by Chemwatch; 2. Classification drawn from HSIS; 3. Classification drawn from EC Directive 1272/2008 - Annex VI                                                                                                   |

#### Label elements

|                    |                                                                                                                                                                                                                                                                                                                                                 |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GHS label elements |     |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Continued...

## Geocel Joiners Mate Mitre Bond Activator #113-020

SIGNAL WORD **DANGER**

## Hazard statement(s)

|        |                                                                   |
|--------|-------------------------------------------------------------------|
| H222   | Extremely flammable aerosol                                       |
| H315   | Causes skin irritation                                            |
| H361   | Suspected of damaging fertility or the unborn child               |
| H336   | May cause drowsiness or dizziness                                 |
| H373   | May cause damage to organs through prolonged or repeated exposure |
| H401   | Toxic to aquatic life                                             |
| H411   | Toxic to aquatic life with long lasting effects                   |
| AUH044 | Risk of explosion if heated under confinement                     |

## Precautionary statement(s) Prevention

|      |                                                                                                |
|------|------------------------------------------------------------------------------------------------|
| P201 | Obtain special instructions before use.                                                        |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P211 | Do not spray on an open flame or other ignition source.                                        |
| P251 | Do not pierce or burn, even after use.                                                         |

## Precautionary statement(s) Response

|           |                                                                       |
|-----------|-----------------------------------------------------------------------|
| P308+P313 | IF exposed or concerned: Get medical advice/attention.                |
| P362      | Take off contaminated clothing.                                       |
| P312      | Call a POISON CENTER/doctor/physician/first aider/if you feel unwell. |
| P391      | Collect spillage.                                                     |

## Precautionary statement(s) Storage

|           |                                                                              |
|-----------|------------------------------------------------------------------------------|
| P405      | Store locked up.                                                             |
| P410+P412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed.             |

## Precautionary statement(s) Disposal

|      |                                                                                                              |
|------|--------------------------------------------------------------------------------------------------------------|
| P501 | Dispose of contents/container to authorised chemical landfill or if organic to high temperature incineration |
|------|--------------------------------------------------------------------------------------------------------------|

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

## Substances

See section below for composition of Mixtures

## Mixtures

| CAS No      | %[weight] | Name                                          |
|-------------|-----------|-----------------------------------------------|
| 64742-49-0. | 50-70     | <u>naphtha petroleum, light, hydrotreated</u> |
| 106-97-8    | 10-30     | <u>butane</u>                                 |

## SECTION 4 FIRST AID MEASURES

## Description of first aid measures

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye Contact  | <p>If aerosols come in contact with the eyes:</p> <ul style="list-style-type: none"> <li>▶ Immediately hold the eyelids apart and flush the eye continuously for at least 15 minutes with fresh running water.</li> <li>▶ Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>▶ Transport to hospital or doctor without delay.</li> <li>▶ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>                                               |
| Skin Contact | <p>If solids or aerosol mists are deposited upon the skin:</p> <ul style="list-style-type: none"> <li>▶ Flush skin and hair with running water (and soap if available).</li> <li>▶ Remove any adhering solids with industrial skin cleansing cream.</li> <li>▶ <b>DO NOT use solvents.</b></li> <li>▶ Seek medical attention in the event of irritation.</li> </ul>                                                                                                                                                                                                                                             |
| Inhalation   | <p>If aerosols, fumes or combustion products are inhaled:</p> <ul style="list-style-type: none"> <li>▶ Remove to fresh air.</li> <li>▶ Lay patient down. Keep warm and rested.</li> <li>▶ Prosthesis such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>▶ If breathing is shallow or has stopped, ensure clear airway and apply resuscitation, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>▶ Transport to hospital, or doctor.</li> </ul> |
| Ingestion    | <ul style="list-style-type: none"> <li>▶ Avoid giving milk or oils.</li> <li>▶ Avoid giving alcohol.</li> <li>▶ Not considered a normal route of entry.</li> <li>▶ If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.</li> </ul>                                                                                                                                                                                                                                                                                 |

Continued...

## Geocel Joiners Mate Mitre Bond Activator #113-020

## Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5 FIREFIGHTING MEASURES

## Extinguishing media

|  |                                                                                                                                                                                                |
|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>SMALL FIRE:</b> <ul style="list-style-type: none"> <li>Water spray, dry chemical or CO2</li> </ul> <b>LARGE FIRE:</b> <ul style="list-style-type: none"> <li>Water spray or fog.</li> </ul> |
|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Special hazards arising from the substrate or mixture

|                             |                                                                                                                                                                                          |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Fire Incompatibility</b> | <ul style="list-style-type: none"> <li>Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result</li> </ul> |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Advice for firefighters

|                              |                                                                                                                                                                                                                                                                                                                         |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Fire Fighting</b>         | <ul style="list-style-type: none"> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> </ul> |
| <b>Fire/Explosion Hazard</b> | <ul style="list-style-type: none"> <li>Liquid and vapour are highly flammable.</li> <li>Severe fire hazard when exposed to heat or flame.</li> <li>Vapour forms an explosive mixture with air.</li> <li>Severe explosion hazard, in the form of vapour, when exposed to flame or spark.</li> </ul>                      |

## SECTION 6 ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

|                     |                                                                                                                                                                                                                                                                                                           |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Minor Spills</b> | <ul style="list-style-type: none"> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Wear protective clothing, impervious gloves and safety glasses.</li> <li>Shut off all possible sources of ignition and increase ventilation.</li> </ul> |
| <b>Major Spills</b> | <ul style="list-style-type: none"> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear breathing apparatus plus protective gloves.</li> </ul>                          |
|                     | Personal Protective Equipment advice is contained in Section 8 of the MSDS.                                                                                                                                                                                                                               |

## SECTION 7 HANDLING AND STORAGE

## Precautions for safe handling

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Safe handling</b>     | <ul style="list-style-type: none"> <li><b>DO NOT allow clothing wet with material to stay in contact with skin</b></li> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> </ul>                                                                                  |
| <b>Other information</b> | <ul style="list-style-type: none"> <li>Keep dry to avoid corrosion of cans. Corrosion may result in container perforation and internal pressure may eject contents of can</li> <li>Store in original containers in approved flammable liquid storage area.</li> <li><b>DO NOT store in pits, depressions, basements or areas where vapours may be trapped.</b></li> <li>No smoking, naked lights, heat or ignition sources.</li> </ul> |

## Conditions for safe storage, including any incompatibilities

|                                |                                                                                                                                                                                                                                                                                                    |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable container</b>      | <ul style="list-style-type: none"> <li>Aerosol dispenser.</li> <li>Check that containers are clearly labelled.</li> </ul>                                                                                                                                                                          |
| <b>Storage incompatibility</b> | <ul style="list-style-type: none"> <li>Avoid reaction with oxidising agents</li> <li>Compressed gases may contain a large amount of kinetic energy over and above that potentially available from the energy of reaction produced by the gas in chemical reaction with other substances</li> </ul> |

## PACKAGE MATERIAL INCOMPATIBILITIES

Not Available

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

## Control parameters

## OCCUPATIONAL EXPOSURE LIMITS (OEL)

## INGREDIENT DATA

| Source                       | Ingredient | Material name | TWA                  | STEL          | Peak          | Notes         |
|------------------------------|------------|---------------|----------------------|---------------|---------------|---------------|
| Australia Exposure Standards | butane     | Butane        | 1900 mg/m3 / 800 ppm | Not Available | Not Available | Not Available |

## EMERGENCY LIMITS

| Ingredient | Material name | TEEL-1 | TEEL-2 | TEEL-3 |
|------------|---------------|--------|--------|--------|
|------------|---------------|--------|--------|--------|

Continued...

## Geocel Joiners Mate Mitre Bond Activator #113-020

| butane                                 | Butane        | Not Available | Not Available | Not Available |
|----------------------------------------|---------------|---------------|---------------|---------------|
| Ingredient                             | Original IDLH | Revised IDLH  |               |               |
| naphtha petroleum, light, hydrotreated | Not Available | Not Available |               |               |
| butane                                 | Not Available | Not Available |               |               |

## MATERIAL DATA

for: hexane, isomers (excluding n-hexane)

The TLV-TWA is thought to be protective against nausea, headache, upper respiratory tract irritation and CNS depression. The STEL is added to prevent objective depression of the CNS. The lower value ascribed

to n-hexane is due to the neurotoxicity of its metabolites, principally 5-hydroxy-2-hexanone and 2,5-hexanedione. It is considered unlikely that other hexanes follow the same metabolic route.

## Exposure controls

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Appropriate engineering controls | <p><b>CARE:</b> Use of a quantity of this material in confined space or poorly ventilated area, where rapid build up of concentrated atmosphere may occur, could require increased ventilation and/or protective gear</p> <p>Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.</p> <p>The basic types of engineering controls are:</p> <p>Process controls which involve changing the way a job activity or process is done to reduce the risk.</p> <p>Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.</p> |
| Personal protection              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Eye and face protection          | <ul style="list-style-type: none"> <li>Safety glasses with side shields.</li> <li>Chemical goggles.</li> <li>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Skin protection                  | See Hand protection below                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Hands/feet protection            | <ul style="list-style-type: none"> <li>No special equipment needed when handling small quantities.</li> <li><b>OTHERWISE:</b></li> <li>For potentially moderate exposures:</li> <li>Wear general protective gloves, eg. light weight rubber gloves.</li> <li>For potentially heavy exposures:</li> <li>Wear chemical protective gloves, eg. PVC. and safety footwear.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Body protection                  | See Other protection below                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Other protection                 | <p>No special equipment needed when handling small quantities.</p> <p><b>OTHERWISE:</b></p> <ul style="list-style-type: none"> <li>Overalls.</li> <li>Skin cleansing cream.</li> <li>Eyewash unit.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Thermal hazards                  | Not Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## Recommended material(s)

## GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

**"Forsberg Clothing Performance Index".**

The effect(s) of the following substance(s) are taken into account in the **computer-generated** selection:

Geocel Joiners Mate Mitre Bond Activator #113-020 Not Available

| Material | CPI |
|----------|-----|
|----------|-----|

\* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

**NOTE:** As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

## Respiratory protection

Type AX Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required.

Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

| Required Minimum Protection Factor | Half-Face Respirator | Full-Face Respirator | Powered Air Respirator |
|------------------------------------|----------------------|----------------------|------------------------|
| up to 5 x ES                       | Air-line*            | AX-2                 | AX-PAPR-2 ^            |
| up to 10 x ES                      | -                    | AX-3                 | -                      |
| 10+ x ES                           | -                    | Air-line**           | -                      |

\* - Continuous Flow; \*\* - Continuous-flow or positive pressure demand

^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

|                |                                                                                                  |                              |               |
|----------------|--------------------------------------------------------------------------------------------------|------------------------------|---------------|
| Appearance     | Colourless highly flammable liquid aerosol with a characteristic odour; does not mix with water. |                              |               |
| Physical state | Liquid                                                                                           | Relative density (Water = 1) | Not Available |

Continued...

## Geocel Joiners Mate Mitre Bond Activator #113-020

|                                                     |                   |                                                |                |
|-----------------------------------------------------|-------------------|------------------------------------------------|----------------|
| <b>Odour</b>                                        | Not Available     | <b>Partition coefficient n-octanol / water</b> | Not Available  |
| <b>Odour threshold</b>                              | Not Available     | <b>Auto-ignition temperature (°C)</b>          | Not Available  |
| <b>pH (as supplied)</b>                             | Not Applicable    | <b>Decomposition temperature</b>               | Not Available  |
| <b>Melting point / freezing point (°C)</b>          | 90.5              | <b>Viscosity (cSt)</b>                         | Not Available  |
| <b>Initial boiling point and boiling range (°C)</b> | 98                | <b>Molecular weight (g/mol)</b>                | Not Applicable |
| <b>Flash point (°C)</b>                             | -4                | <b>Taste</b>                                   | Not Available  |
| <b>Evaporation rate</b>                             | Not Available     | <b>Explosive properties</b>                    | Not Available  |
| <b>Flammability</b>                                 | HIGHLY FLAMMABLE. | <b>Oxidising properties</b>                    | Not Available  |
| <b>Upper Explosive Limit (%)</b>                    | Not Available     | <b>Surface Tension (dyn/cm or mN/m)</b>        | Not Available  |
| <b>Lower Explosive Limit (%)</b>                    | Not Available     | <b>Volatile Component (%vol)</b>               | Not Available  |
| <b>Vapour pressure (kPa)</b>                        | Not Available     | <b>Gas group</b>                               | Not Available  |
| <b>Solubility in water (g/L)</b>                    | Immiscible        | <b>pH as a solution (1%)</b>                   | Not Applicable |
| <b>Vapour density (Air = 1)</b>                     | Not Available     | <b>VOC g/L</b>                                 | Not Available  |

## SECTION 10 STABILITY AND REACTIVITY

|                                           |                                                                                                                                                                                                            |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reactivity</b>                         | See section 7                                                                                                                                                                                              |
| <b>Chemical stability</b>                 | <ul style="list-style-type: none"> <li>► Elevated temperatures.</li> <li>► Presence of open flame.</li> <li>► Product is considered stable.</li> <li>► Hazardous polymerisation will not occur.</li> </ul> |
| <b>Possibility of hazardous reactions</b> | See section 7                                                                                                                                                                                              |
| <b>Conditions to avoid</b>                | See section 7                                                                                                                                                                                              |
| <b>Incompatible materials</b>             | See section 7                                                                                                                                                                                              |
| <b>Hazardous decomposition products</b>   | See section 5                                                                                                                                                                                              |

## SECTION 11 TOXICOLOGICAL INFORMATION

## Information on toxicological effects

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhaled</b>      | <p>Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by narcosis, reduced alertness, loss of reflexes, lack of coordination and vertigo.</p> <p>Inhalation of aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual. Limited evidence or practical experience suggests that the material may produce irritation of the respiratory system, in a significant number of individuals, following inhalation.</p>                                                                                                                                                                                                                                                                                                                                                       |
| <b>Ingestion</b>    | <p>Accidental ingestion of the material may be damaging to the health of the individual.</p> <p>Not normally a hazard due to physical form of product.</p> <p>Considered an unlikely route of entry in commercial/industrial environments</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Skin Contact</b> | <p>Evidence exists, or practical experience predicts, that the material either produces inflammation of the skin in a substantial number of individuals following direct contact, and/or produces significant inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation being present twenty-four hours or more after the end of the exposure period. Skin irritation may also be present after prolonged or repeated exposure; this may result in a form of contact dermatitis (nonallergic). The dermatitis is often characterised by skin redness (erythema) and swelling (oedema) which may progress to blistering (vesiculation), scaling and thickening of the epidermis. At the microscopic level there may be intercellular oedema of the spongy layer of the skin (spongiosis) and intracellular oedema of the epidermis.</p> |
| <b>Eye</b>          | <p>Limited evidence or practical experience suggests, that the material may cause eye irritation in a substantial number of individuals. Repeated or prolonged eye contact may cause inflammation characterised by temporary redness (similar to windburn) of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur.</p> <p>Direct contact with the eye may not cause irritation because of the extreme volatility of the gas; however concentrated atmospheres may produce irritation after brief exposures..</p> <p>Petroleum hydrocarbons may produce pain after direct contact with the eyes.</p>                                                                                                                                                                                                               |
| <b>Chronic</b>      | <p>Harmful: danger of serious damage to health by prolonged exposure through inhalation.</p> <p>Serious damage (clear functional disturbance or morphological change which may have toxicological significance) is likely to be caused by repeated or prolonged exposure. As a rule the material produces, or contains a substance which produces severe lesions. Such damage may become apparent following direct application in subchronic (90 day) toxicity studies or following sub-acute (28 day) or chronic (two-year) toxicity tests.</p>                                                                                                                                                                                                                                                                                                                                      |

|                                                          |                                                                                                                |                   |
|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-------------------|
| <b>Geocel Joiners Mate Mitre Bond Activator #113-020</b> | <b>TOXICITY</b>                                                                                                | <b>IRRITATION</b> |
|                                                          | Not Available                                                                                                  | Not Available     |
| <b>naphtha petroleum, light, hydrotreated</b>            | <b>TOXICITY</b>                                                                                                | <b>IRRITATION</b> |
|                                                          | <p>Dermal (rabbit) LD50: &gt;1900 mg/kg<sup>[1]</sup></p> <p>Oral (rat) LD50: &gt;2000 mg/kg<sup>[1]</sup></p> | Not Available     |

## Geocel Joiners Mate Mitre Bond Activator #113-020

extracted from RTECS - Register of Toxic Effect of chemical Substances

**Geocel Joiners Mate Mitre Bond Activator #113-020 & NAPHTHA PETROLEUM, LIGHT, HYDROTREATED**

No significant acute toxicological data identified in literature search.

Studies indicate that normal, branched and cyclic paraffins are absorbed from the mammalian gastrointestinal tract and that the absorption of n-paraffins is inversely proportional to the carbon chain length, with little absorption above C30. With respect to the carbon chain lengths likely to be present in mineral oil, n-paraffins may be absorbed to a greater extent than iso- or cyclo-paraffins.

The major classes of hydrocarbons have been shown to be well absorbed by the gastrointestinal tract in various species.

|                                   |   |                          |   |
|-----------------------------------|---|--------------------------|---|
| Acute Toxicity                    | ☹ | Carcinogenicity          | ☹ |
| Skin Irritation/Corrosion         | ✓ | Reproductivity           | ✓ |
| Serious Eye Damage/Irritation     | ☹ | STOT - Single Exposure   | ✓ |
| Respiratory or Skin sensitisation | ☹ | STOT - Repeated Exposure | ✓ |
| Mutagenicity                      | ☹ | Aspiration Hazard        | ☹ |

Legend: ✓ – Data required to make classification available  
 ✗ – Data available but does not fill the criteria for classification  
 ☹ – Data Not Available to make classification

**CMR STATUS**

Not Applicable

**SECTION 12 ECOLOGICAL INFORMATION****Toxicity****NOT AVAILABLE**

| Ingredient                             | Endpoint      | Test Duration | Effect        | Value         | Species       | BCF           |
|----------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| naphtha petroleum, light, hydrotreated | Not Available | Not Available | Not Available | Not Available | Not Available | Not Available |
| butane                                 | Not Available | Not Available | Not Available | Not Available | Not Available | Not Available |

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

**Persistence and degradability**

| Ingredient | Persistence: Water/Soil | Persistence: Air |
|------------|-------------------------|------------------|
| butane     | LOW                     | LOW              |

**Bioaccumulative potential**

| Ingredient | Bioaccumulation     |
|------------|---------------------|
| butane     | LOW (LogKOW = 2.89) |

**Mobility in soil**

| Ingredient | Mobility          |
|------------|-------------------|
| butane     | LOW (KOC = 43.79) |

**SECTION 13 DISPOSAL CONSIDERATIONS****Waste treatment methods**

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product / Packaging disposal | <p>Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.</p> <p>A Hierarchy of Controls seems to be common - the user should investigate:</p> <ul style="list-style-type: none"> <li>▶ Reduction</li> <li>▶ Reuse</li> <li>▶ Recycling</li> <li>▶ Disposal (if all else fails)</li> </ul> <p>This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use.</p> |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**SECTION 14 TRANSPORT INFORMATION****Labels Required**

## Geocel Joiners Mate Mitre Bond Activator #113-020

Marine Pollutant



HAZCHEM 2YE

## Land transport (ADG)

|                              |                                                                                                                                          |                    |                    |                  |                |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------|------------------|----------------|
| UN number                    | 1950                                                                                                                                     |                    |                    |                  |                |
| Packing group                | Not Applicable                                                                                                                           |                    |                    |                  |                |
| UN proper shipping name      | AEROSOLS                                                                                                                                 |                    |                    |                  |                |
| Environmental hazard         | No relevant data                                                                                                                         |                    |                    |                  |                |
| Transport hazard class(es)   | <table> <tr> <td>Class</td><td>2.1</td></tr> <tr> <td>Subrisk</td><td>Not Applicable</td></tr> </table>                                  | Class              | 2.1                | Subrisk          | Not Applicable |
| Class                        | 2.1                                                                                                                                      |                    |                    |                  |                |
| Subrisk                      | Not Applicable                                                                                                                           |                    |                    |                  |                |
| Special precautions for user | <table> <tr> <td>Special provisions</td><td>63 190 277 327 344</td></tr> <tr> <td>Limited quantity</td><td>See SP 277</td></tr> </table> | Special provisions | 63 190 277 327 344 | Limited quantity | See SP 277     |
| Special provisions           | 63 190 277 327 344                                                                                                                       |                    |                    |                  |                |
| Limited quantity             | See SP 277                                                                                                                               |                    |                    |                  |                |

## Air transport (ICAO-IATA / DGR)

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |              |                                 |                |                               |        |                                          |     |                                        |       |                                                           |      |                                                |         |
|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------|---------------------------------|----------------|-------------------------------|--------|------------------------------------------|-----|----------------------------------------|-------|-----------------------------------------------------------|------|------------------------------------------------|---------|
| UN number                                                 | 1950                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                    |              |                                 |                |                               |        |                                          |     |                                        |       |                                                           |      |                                                |         |
| Packing group                                             | Not Applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                    |              |                                 |                |                               |        |                                          |     |                                        |       |                                                           |      |                                                |         |
| UN proper shipping name                                   | Aerosols, flammable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                    |              |                                 |                |                               |        |                                          |     |                                        |       |                                                           |      |                                                |         |
| Environmental hazard                                      | No relevant data                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |              |                                 |                |                               |        |                                          |     |                                        |       |                                                           |      |                                                |         |
| Transport hazard class(es)                                | <table> <tr> <td>ICAO/IATA Class</td><td>2.1</td></tr> <tr> <td>ICAO / IATA Subrisk</td><td>Not Applicable</td></tr> <tr> <td>ERG Code</td><td>10L</td></tr> </table>                                                                                                                                                                                                                                                                                                                                                                  | ICAO/IATA Class    | 2.1          | ICAO / IATA Subrisk             | Not Applicable | ERG Code                      | 10L    |                                          |     |                                        |       |                                                           |      |                                                |         |
| ICAO/IATA Class                                           | 2.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                    |              |                                 |                |                               |        |                                          |     |                                        |       |                                                           |      |                                                |         |
| ICAO / IATA Subrisk                                       | Not Applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                    |              |                                 |                |                               |        |                                          |     |                                        |       |                                                           |      |                                                |         |
| ERG Code                                                  | 10L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                    |              |                                 |                |                               |        |                                          |     |                                        |       |                                                           |      |                                                |         |
| Special precautions for user                              | <table> <tr> <td>Special provisions</td><td>A145A167A802</td></tr> <tr> <td>Cargo Only Packing Instructions</td><td>203</td></tr> <tr> <td>Cargo Only Maximum Qty / Pack</td><td>150 kg</td></tr> <tr> <td>Passenger and Cargo Packing Instructions</td><td>203</td></tr> <tr> <td>Passenger and Cargo Maximum Qty / Pack</td><td>75 kg</td></tr> <tr> <td>Passenger and Cargo Limited Quantity Packing Instructions</td><td>Y203</td></tr> <tr> <td>Passenger and Cargo Limited Maximum Qty / Pack</td><td>30 kg G</td></tr> </table> | Special provisions | A145A167A802 | Cargo Only Packing Instructions | 203            | Cargo Only Maximum Qty / Pack | 150 kg | Passenger and Cargo Packing Instructions | 203 | Passenger and Cargo Maximum Qty / Pack | 75 kg | Passenger and Cargo Limited Quantity Packing Instructions | Y203 | Passenger and Cargo Limited Maximum Qty / Pack | 30 kg G |
| Special provisions                                        | A145A167A802                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                    |              |                                 |                |                               |        |                                          |     |                                        |       |                                                           |      |                                                |         |
| Cargo Only Packing Instructions                           | 203                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                    |              |                                 |                |                               |        |                                          |     |                                        |       |                                                           |      |                                                |         |
| Cargo Only Maximum Qty / Pack                             | 150 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                    |              |                                 |                |                               |        |                                          |     |                                        |       |                                                           |      |                                                |         |
| Passenger and Cargo Packing Instructions                  | 203                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                    |              |                                 |                |                               |        |                                          |     |                                        |       |                                                           |      |                                                |         |
| Passenger and Cargo Maximum Qty / Pack                    | 75 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                    |              |                                 |                |                               |        |                                          |     |                                        |       |                                                           |      |                                                |         |
| Passenger and Cargo Limited Quantity Packing Instructions | Y203                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                    |              |                                 |                |                               |        |                                          |     |                                        |       |                                                           |      |                                                |         |
| Passenger and Cargo Limited Maximum Qty / Pack            | 30 kg G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                    |              |                                 |                |                               |        |                                          |     |                                        |       |                                                           |      |                                                |         |

## Sea transport (IMDG-Code / GGVSee)

|                              |                                                                                                                                                                                              |            |          |                    |                        |                    |           |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------|--------------------|------------------------|--------------------|-----------|
| UN number                    | 1950                                                                                                                                                                                         |            |          |                    |                        |                    |           |
| Packing group                | Not Applicable                                                                                                                                                                               |            |          |                    |                        |                    |           |
| UN proper shipping name      | AEROSOLS                                                                                                                                                                                     |            |          |                    |                        |                    |           |
| Environmental hazard         | Not Applicable                                                                                                                                                                               |            |          |                    |                        |                    |           |
| Transport hazard class(es)   | <table> <tr> <td>IMDG Class</td><td>2.1</td></tr> <tr> <td>IMDG Subrisk</td><td>Not Applicable</td></tr> </table>                                                                            | IMDG Class | 2.1      | IMDG Subrisk       | Not Applicable         |                    |           |
| IMDG Class                   | 2.1                                                                                                                                                                                          |            |          |                    |                        |                    |           |
| IMDG Subrisk                 | Not Applicable                                                                                                                                                                               |            |          |                    |                        |                    |           |
| Special precautions for user | <table> <tr> <td>EMS Number</td><td>F-D, S-U</td></tr> <tr> <td>Special provisions</td><td>63 190 277 327 344 959</td></tr> <tr> <td>Limited Quantities</td><td>See SP277</td></tr> </table> | EMS Number | F-D, S-U | Special provisions | 63 190 277 327 344 959 | Limited Quantities | See SP277 |
| EMS Number                   | F-D, S-U                                                                                                                                                                                     |            |          |                    |                        |                    |           |
| Special provisions           | 63 190 277 327 344 959                                                                                                                                                                       |            |          |                    |                        |                    |           |
| Limited Quantities           | See SP277                                                                                                                                                                                    |            |          |                    |                        |                    |           |

## SECTION 15 REGULATORY INFORMATION

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

|                                                                                               |                                                                                                                                                             |
|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| naphtha petroleum, light, hydrotreated(64742-49-0) is found on the following regulatory lists | "Australia Exposure Standards","Australia Inventory of Chemical Substances (AICS)","Australia Hazardous Substances Information System - Consolidated Lists" |
| butane(106-97-8) is found on the following regulatory lists                                   | "Australia Exposure Standards","Australia Inventory of Chemical Substances (AICS)","Australia Hazardous Substances Information System - Consolidated Lists" |

| National Inventory | Status |
|--------------------|--------|
| Australia - AICS   | Y      |
| Canada - DSL       | Y      |

Continued...

## Geocel Joiners Mate Mitre Bond Activator #113-020

|                               |                                                                                                                                                                                              |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| China - IECSC                 | Y                                                                                                                                                                                            |
| Europe - EINEC / ELINCS / NLP | Y                                                                                                                                                                                            |
| Japan - ENCS                  | N (naphtha petroleum, light, hydrotreated)                                                                                                                                                   |
| Korea - KECI                  | Y                                                                                                                                                                                            |
| New Zealand - NZIoC           | Y                                                                                                                                                                                            |
| Philippines - PICCS           | Y                                                                                                                                                                                            |
| USA - TSCA                    | Y                                                                                                                                                                                            |
| <b>Legend:</b>                | <i>Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)</i> |

## SECTION 16 OTHER INFORMATION

## Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at:

[www.chemwatch.net](http://www.chemwatch.net)

The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

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