

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

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| Product name: | FIRESHIELD STEEL 1002 |
| Other names: | Not Assigned |
| Recommended Use: | Water based intumescent coating for interior structural steel |
| Product codes: | Not Assigned |
| Group Approval: | Not Applicable |
| Supplier: | Fireshield, a division of Fire Protection Coatings Limited |
| NZBN: | 9429041746059 |
| Address: | Level 1, 60 Cashel Street, Christchurch 8013, New Zealand |
| Contact Number: | Ph: 0800 FIRESHIELD (0800 347374) |
| Email: | info@fireshieldcoatings.com |
| Website: | www.fireshieldcoatings.com |
| Emergency Number: | Ph: 111- Police, Ambulance and Fire Brigade |
| Poison Information Centre: | Ph: 0800 764 766 |

2. HAZARDS IDENTIFICATION

Classified as not hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Notice 2017.

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| HSNO Classification | : | Not applicable as there are no known hazards |
| Prevention statement | : | Not applicable as there are no known hazards |

3. COMPOSITION INFORMATION

This product does not contain any substance that is classified as hazardous to health or environment

4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If breathing difficulties occur, seek medical advice.

Skin contact: For gross contamination, immediately drench with water and remove clothing. Continue to flush skin and hair with plenty of water. Seek medical assistance if symptoms remain

Eye contact: If in eyes wash out immediately with water. Seek medical attention.

Ingestion: Rinse mouth with water. If swallowed, do NOT induce vomiting. Seek medical advice.

Most important symptoms caused by exposure, acute and delayed: Frequent or repeated contact may degrease the skin, resulting in non-allergic contact dermatitis. Eye contact may cause irritation.

Notes to physician: Treat symptomatically.



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5. FIRE-FIGHTING MEASURES

Flammability - The product is water based and is not combustible.

Extinguishing media - Use appropriate for surrounding materials. Suitable extinguishing media may include water spray, carbon dioxide, dry powder or foam.

Hazardous combustion products: Carbon and nitrogen oxides may be formed.

Special hazards arising from the substance or mixture - Not available.

Advice for fire fighters - Not available.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Wipe up with absorbent (clean rag or paper towels). Place in a suitable, labelled container for waste disposal.

LARGE SPILLS

Shut off all possible sources of ignition. Clear area of all unprotected personnel. Prevent further leakage or spillage if safe to do so. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. Use a spark-free shovel. If contamination of sewers or waterways has occurred advise local emergency services.

7. HANDLING AND STORAGE

Handling: Avoid skin and eye contact and inhalation of vapour, mist or aerosols. . Prohibit eating, drinking and smoking in work areas. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Storage: Store at a minimum temperature of 5°C. Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat or ignition. Keep containers closed when not in use - check regularly for leaks.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Substance with an exposure limit: No known exposure limit

Exposure controls:

If used according to the handling and storage guidelines, there are no health risks. Observe the general safety and hygiene measures. Wash and nourish the skin after work.

Biological exposure monitoring: No exposure limits set in the *Workplace Exposure Standards and Biological Exposure Indices (2018)*.

Engineering measures: Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use with local exhaust ventilation or while wearing appropriate respirator. Vapour heavier than air - prevent concentration in hollows or sumps. DO NOT enter confined spaces where vapour may have collected. Keep containers closed when not in use.



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Personal protection equipment: G: OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES, RESPIRATOR.

Skin: Wear overalls, safety glasses and impervious gloves. Use with adequate ventilation. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment.

Eyes: Splash resistant Safety Glasses with side shields or safety goggles (AS/NZS 1337) are recommended.

Inhalation: If inhalation risk exists wear organic vapour/particulate respirator (half or full mask with P2 dust filter) meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

Hygiene measures: When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid skin and eye contact and inhalation of vapour, mist or aerosols. Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

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| Form / Colour / Odour: | Viscous white liquid with a mild characteristic odour |
| Solubility: | Miscible with Water |
| Specific Gravity (20 °C): | 1.3 kg/m ³ +/- 0.03 |
| Relative Vapour Density (air=1): | N Av |
| Vapour Pressure (20 °C): | N Av |
| Flash Point (°C): | N Av |
| Flammability Limits (%): | Non-combustible material |
| Autoignition Temperature (°C): | N Av |
| % Volatile by Weight: | 33 +/- 2 |
| Melting Point/Range (°C): | N Av |
| Boiling Point/Range (°C): | N Av |
| Decomposition Point (°C): | N Av |
| pH: | 8.5 +/- 0.3 |
| Viscosity: | Viscous |
| VOC (bp < 250°C) | <50 g/l |

(Typical values only - consult specification sheet)

N Av = Not available

N App = Not applicable

10. STABILITY AND REACTIVITY

There is no test data for the reactivity of this product. The products are chemically stable and have no reactivity therefore; it is not expected to produce hazardous reactions. There are no special requirements with regard to incompatible materials and no conditions to avoid.



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11. TOXICOLOGICAL INFORMATION

There are no data available for the product itself.

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| Acute toxicity: | The product is not expected to cause any health hazard. |
| Irritation: | Long term exposure may cause skin irritation. Particles from the product may cause technical damage and cause eye irritation. Only by inhalation of spray mist may respiratory irritation occur. |
| Sensitisation: | Not known. |
| Repeated dose toxicity: | Not known. |
| Carcinogenicity: | Not known. |
| Mutagenic effects: | Not known. |
| Reproductive toxicity: | Not known |

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

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| Ecotoxicity: | No information available. |
| Persistence and degradability: | No information available. |
| Bioaccumulative potential: | No information available. |
| Mobility: | No information available. |

13. DISPOSAL CONSIDERATIONS

Recycle wherever possible. Do not allow to enter drains and watercourses. Waste should be disposed of according to local regulation. Bulk or contaminated product may be disposed of through an approved hazardous waste contractor. Small quantities may be disposed of through normal household/commercial waste removal facilities. This product is not classified as hazardous waste.

14. TRANSPORT INFORMATION

Not classified as a Dangerous Goods according to NZS 5433.

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|-------------------------------|--------------------|
| UN No: | Not dangerous good |
| Proper Shipping Name: | Not applicable |
| Dangerous Goods Class: | Not applicable |
| Packing Group: | Not applicable |

15. REGULATORY INFORMATION

The preparation has been assessed following the New Zealand EPA method for the Assigning a Product to a HSNO Approval publication and is not classified as harmful. This preparation is not classified as a health or environmental hazard according to the Hazardous Substances (Minimum Degrees of Hazard) Notice 2017.



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16. OTHER INFORMATION

Abbreviations / Terminology:

| | |
|-------------|--|
| AS/NZS 1337 | Personal eye-protection |
| AS/NZS 1715 | Selection Use and Maintenance of Respiratory Protective Devices |
| AS/NZS 1716 | Respiratory Protective Devices |
| AS/NZS | Joint Australian New Zealand Standard |
| CAS# | Chemical Abstract Service number (a unique identifier for chemicals) |
| CCID | Chemical Classification and Information Database |
| HSNO | Hazardous Substances and New Organisms (New Zealand) |
| NZS 5433 | Transport of Dangerous Goods on Land |
| NZS | New Zealand Standard SDS Safety Data Sheet |
| STEL | Short Term Exposure Limit |
| WES | Workplace Exposure Standard |

Prepared with reference to: EPA - *Hazardous Substances (Safety Data Sheets) Notice 2017*.

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| Current Version: | 01 May 2019 |
| Revision Information: | SDS will be revised every 5 years. |
| This revision: | Updated to meet New Zealand requirements. |
| Previous version dated: | na |

Disclaimer:

This safety data sheet attempts to describe as accurately as possible the potential exposures associated with normal use of the product described herein. Health and safety precautions in the data sheet may not be adequate for all individuals and/or situations. Users have the responsibility to evaluate and use this product safely and to comply with all applicable laws and regulations. Whilst the information contained in this document is based on data, which, to the best of our knowledge, was accurate and reliable at the time of preparation, no warranty or responsibility can be accepted by Chemsafety Ltd for errors and omissions. The provision of this information should not be construed as a recommendation to use any of our products in violation of any patent rights or in breach of any statute or regulation. Users are advised to make their own determination as to the suitability of this information in relation to their purposes and specific circumstances. Since the information contained in the document may be applied under conditions beyond our control, no responsibility can be accepted by us for any loss or damage caused by any person acting or refraining from action as a result of this information. The user is responsible for that last revision of this document is used. Please check on www.fireshieldcoatings.com.

End of SDS