

1. Identification of Substance & Company

Product

| | |
|-----------------------------|---|
| Product name | Eco Coat |
| Product code | NA |
| HSNO approval | HSR002670 |
| Approval description | Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2020 |
| UN number | NA |
| DG class | NA |
| Proper Shipping Name | NA |
| Packaging group | NA |
| Hazchem code | NA |
| Uses | Mineral oil form release agent |

Company Details

| | |
|------------------|---|
| Company | Youngman Richardson & Co Ltd |
| Address | 6 – 1 0 Parkway Drive, Mairangi Bay Auckland New Zealand |
| Telephone | (09) 4432436 |
| Website | www.yrco.co.nz |

Emergency Telephone Number: 0800-764 766

2. Hazard Identification

Approval

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002670, Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2020). The substance has been classified as hazardous according to the criteria in the Hazardous Substances (Hazard Classification) Notice 2020.

Classes

Aspiration category 1
Eye irritation category 2
STOT RE category 2
STOT SE category 3

Hazard Statements

May be fatal if swallowed and enters airways.
Causes eye irritation.
May cause damage to kidneys through prolonged or repeated exposure (oral).
May cause respiratory irritation.

SYMBOLS

DANGER



Other Classifications

There are no other classifications that are known to apply.

Precautionary Statements

| | |
|-------------------|---|
| Prevention | P102 - Keep out of reach of children. P103 - Read label before use. P260 - Do not breathe vapours. P264 - Wash hands thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective gloves/protective clothing/eye protection. |
|-------------------|---|

- Response** P101 - If medical advice is needed, have product container or label at hand.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.
P331 - Do NOT induce vomiting.
P332+P313 - If skin irritation occurs: Get medical advice/ attention.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P304+P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P312 - Call a POISON CENTRE or doctor/physician if you feel unwell.
P314 - Get medical advice/attention if you feel unwell.
- Storage** P405 - Store locked up.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
- Disposal** P501 - Dispose of contents/container in accordance with local/regional/national/international regulation.

3. Composition / Information on Ingredients

| Component | CAS/ Identification | Conc (%) |
|-------------------------------|---------------------|----------|
| mineral oil blend concentrate | 67472-52-5 | <95% |
| sodium sulphonate | 68608-26-4 | <5% |
| diethylene glycol | 111-46-6 | <2% |

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

4. First Aid

General Information

If medical advice is needed, have product container or label at hand. You should call the National Poisons Centre if you feel that you may have been harmed or irritated by this product. The number is 0800 764 766 (0800 POISON) (24 hr emergency service).

Recommended first aid facilities Ready access to running water is recommended. Accessible eyewash is recommended.

Exposure

- Swallowed** IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting. Give a glass of water to drink. Contact a doctor.
- Eye contact** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Apply continuous irrigation with water for at least 15 minutes holding eyelids apart. If eye irritation persists: Get medical advice.
- Skin contact** IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: get medical advice/attention. Take off contaminated clothing and wash before re-use.
- Inhaled** IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Advice to Doctor

Treat symptomatically

5. Firefighting Measures

- Fire and explosion hazards:** There are no specific risks for fire/explosion for this chemical. It is not classed as flammable.
- Suitable extinguishing substances:** Carbon dioxide, extinguishing powder, foam, fog sprays, water jets.
- Unsuitable extinguishing substances:** Unknown.
- Products of combustion:** Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Water. May form toxic mixtures in air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures.
- Protective equipment:** No special measures are required.
- Hazchem code:** NA

6. Accidental Release Measures

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| Containment | In all cases design storage to prevent discharge to stormwater. |
| Emergency procedures | In the event of a large spillage alert the fire brigade to location and give brief description of hazard. Stop the source of the leak, if safe to do so. Wear protective equipment to prevent skin, eye and respiratory exposure. Clear area of any unprotected personnel. Contain using sand, earth or vermiculite. Prevent by whatever means possible any spillage from entering drains, sewers, or water courses. (If this occurs contact your regional council immediately). |
| Clean-up method | Use absorbent (soil, sand or other inert material). Rags are not recommended for the clean-up of spills, as they may create fire or environmental hazard. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services. |
| Disposal | Mop up and collect recoverable material into labelled containers for recycling or salvage. Recycle containers wherever possible. This material may be suitable for approved landfill. Dispose of only in accord with all regulations. |
| Precautions | Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours/mists. Work up wind or increase ventilation. |

7. Storage & Handling

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| Storage | Avoid storage of harmful substances with food. Store out of reach of children. Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames. Avoid contact with incompatible substances as listed in Section 10. |
| Handling | Keep exposure to a minimum, and minimise the quantities kept in work areas. See section 8 with regard to personal protective equipment requirements. |

8. Exposure Controls / Personal Protective Equipment

Workplace Exposure Standards

A workplace exposure standard (WES) has not been established by WorkSafe NZ for this product. There is a general limit of 3mg/m³ for respirable particulates and 10mg/m³ for inhalable particulates when limits have not otherwise been established.

| NZ Workplace Exposure Stds | Ingredient | WES-TWA | WES-STEL |
|----------------------------|-------------------------------|----------------------------|-----------------------------|
| | mineral oil blend concentrate | 5mg/m ³ | data unavailable |
| | diethylene glycol | 10ppm, 44mg/m ³ | 40ppm, 176mg/m ³ |

Engineering Controls

In industrial situations, it is expected that employee exposure to hazardous substances will be controlled to a level as far below the WES as practicable by applying the hierarchy of control required by the Health and Safety at Work Act (2015) and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016. Exposure can be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify processes or increase ventilation.

Personal Protective Equipment

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| General | Personal Protective Equipment (PPE) should not be used as the primary means of exposure protection, except in the event of an accident or emergency situation or where all other means of protection have proven to inadequate. Clean PPE after use or dispose of as appropriate. Store PPE for re-use in a clean place. Regular training on the correct use of PPE should be provided. In particular the correct fitting and use of respirators and where applicable the cleaning of respirators should be undertaken. |
| Eyes | Avoid contact with eyes. Use safety glasses and or chemical splash goggles if splashes are possible. |
| Skin | If discomfort is felt (e.g., if pre-existing conditions exist, such as dermatitis, cuts or sensitive skin), gloves may be helpful. If you suffer from dermatitis type skin conditions, use gloves. Oil resistant gloves, e.g. nitrile gloves are recommended. Replace frequently. Gloves should be checked for tears or holes before use. |
| Respiratory | A respirator when airborne concentrations approach the WES (section 8). Use a respirator with a dust mist cartridge. If using a respirator, ensure that the cartridges are correct for the potential air contamination and are in good working order. |



WES Additional Information

Not applicable

9. Physical & Chemical Properties

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| Appearance | amber viscous liquid at room temperature |
| Odour | mild odour |
| Odour Threshold | no data |
| pH | no data |
| Freezing/melting point | no data |
| Boiling Point | no data |
| Flashpoint | >163°C (Cleveland Open Cup, min) |
| Flammability | no data |
| Upper & lower flammable limits | no data |
| Vapour pressure | no data |
| Vapour density | >5 (Air =1) |
| Specific gravity/density | no data |
| Solubility | dispersible in water |
| Partition coefficient | no data |
| Auto-ignition temperature | no data |
| Decomposition temperature | no data |
| Viscosity | 19 cST @40°C |
| Particle Characteristics | no data |
| % Volatiles | 0% |

10. Stability & Reactivity

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| Stability | Stable |
| Conditions to be avoided | Containers should be kept closed in order to avoid contamination. Keep from extreme heat and open flames. |
| Incompatible groups | strong acids, strong bases, strong oxidising agents. |
| Substance Specific Incompatibility | none known |
| Hazardous decomposition products | Smoke, carbon monoxide, aldehydes and other products of incomplete combustion. |
| Hazardous reactions | hazardous polymerisation will not occur |

11. Toxicological Information

Summary

IF SWALLOWED: may result in nausea and stomach discomforts. This mixture is an aspiration.

IF IN EYES: may cause eye irritation.

IF ON SKIN: may cause mild skin irritation, may result in dryness, dermatitis (non allergic), erythema, oil acne, cracking and defatting of the skin.

IF INHALED: high concentration of mists and vapours of this mixture may be irritating to the respiratory tract. Prolonged exposure may result in dizziness and nausea.

CHRONIC TOXICITY: repeated or prolonged oral exposure may affect kidneys.

Supporting Data

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| Acute | Oral | Using LD ₅₀ 's for ingredients, the calculated LD ₅₀ (oral, rat) for the mixture is >5,000 mg/kg. Data considered includes: mineral oil blend concentrate >5000mg/kg, diethylene glycol 3300 mg/kg bw (cat). |
| | Aspiration | This mixture is an aspiration hazard. It contains hydrocarbons and has a viscosity of <20.5mm ² /s. |
| | Dermal | No evidence of acute dermal toxicity. |
| | Inhaled | No evidence of inhalation toxicity. |
| | Eye | The mixture is considered to be an eye irritant. Sodium sulphonate is considered an eye irritant. |
| | Skin | The mixture is considered to be a skin irritant. Hydrocarbons may cause skin irritation. |

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| Chronic | Sensitisation Mutagenicity Carcinogenicity | No ingredient present at concentrations > 0.1% is considered a sensitizer. No ingredient present at concentrations > 0.1% is considered a mutagen. No ingredient present at concentrations > 0.1% is considered a carcinogen. There is some evidence that mineral oil mists may be carcinogenic, however the mineral oil contained in this mixture is highly refined and is not considered carcinogenic by IARC. |
| | Reproductive / Developmental Systemic | No ingredient present at concentrations > 0.1% is considered a reproductive or developmental toxicant or have any effects on or via lactation. |
| | Aggravation of existing conditions | This mixture is considered a respiratory irritant and a suspected systemic toxicant through prolonged or repeated exposure (oral, kidneys, diethylene glycol). None known. |

12. Ecological Data

Summary

This mixture may be harmful in the aquatic environment. Do not allow to enter waterways.

Supporting Data

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|------------------------------------|--|
| Aquatic | This mixture may be harmful in the aquatic environment, based on ecotoxicity of hydrocarbon compounds (mineral oil blend). |
| Bioaccumulation | no data |
| Degradability | not readily biodegradable |
| Soil | No evidence of soil toxicity. |
| Terrestrial vertebrate | This mixture is not classed as toxic towards terrestrial vertebrates. |
| Terrestrial invertebrate | There is no evidence of toxicity towards terrestrial invertebrates. |
| Biocidal | no data |
| Environmental effect levels | No EELs are available for this mixture or ingredients |

13. Disposal Considerations

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| Restrictions | There are no product-specific restrictions, however, local council and resource consent conditions may apply, including requirements of trade waste consents. |
| Disposal method | Disposal of this product must comply with the Hazardous Substances (Disposal) Notice 2017 and the requirements of the Resource Management Act for which approval should be sought from the Regional Authority. The substance must be treated and therefore rendered non-hazardous before discharge to the environment. |
| Contaminated packaging | Disposal of contaminated packaging must comply with the Hazardous Substances (Disposal) Notice 2017 clause 12. Ensure that the package is rendered incapable of containing any substance and is disposed in a manner that is consistent with the requirements of the substance it contained and the material of the package. If possible reuse or recycle packaging. |

14. Transport Information

Land Transport Rule: Dangerous Goods 2005 - NZS 5433:2007

There are no specific restrictions for this product (not a dangerous good).

| | | | |
|---------------------|------|------------------------------|----|
| UN number: | NA | Proper shipping name: | NA |
| Class(es) | NA | Packing group: | NA |
| Precautions: | none | Hazchem code: | NA |

| | | | |
|---------------------|------|------------------------------|----|
| IMDG | | | |
| UN number: | NA | Proper shipping name: | NA |
| Class(es) | NA | Packing group: | NA |
| Precautions: | none | EMS code | NA |

| | | | |
|---------------------|------|------------------------------|----|
| IATA | | | |
| UN number: | NA | Proper shipping name: | NA |
| Class(es) | NA | Packing group: | NA |
| Precautions: | none | | |

15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR002670, Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2020.

Specific Controls

Key workplace requirements are:

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|---------------------------------|---|
| SDS | To be available within 10 minutes in workplaces storing any quantity. |
| Inventory | An inventory of all hazardous substances must be prepared and maintained. |
| Packaging | All hazardous substances should be appropriately packaged including substances that have been decanted, transferred or manufactured for own use or have been supplied |
| Labelling | Must comply with the Hazardous Substances (Labelling) Notice 2017. |
| Emergency plan | Not required. |
| Certified handler | Not required. |
| Tracking | Not required. |
| Bunding & secondary containment | Not required. |
| Signage | Not required. |
| Location compliance certificate | Not required. |
| Flammable zone | Not required. |
| Fire extinguisher | Not required. |

Note: The above workplace requirements apply if only this particular substance is present. The complete set of controls for a location will depend on the classification and total quantities of other substances present in that location.

Other Legislation

In New Zealand, the use of this product may come under the Resource Management Act and Regulations, the Health and Safety at Work Act 2015 and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016, local Council Rules and Regional Council Plans.

16. Other Information

Abbreviations

| | |
|------------------------|--|
| Approval Code | Approval HSR002670, Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2020 Controls, EPA. www.epa.govt.nz |
| CAS Number | Unique Chemical Abstracts Service Registry Number |
| EC₅₀ | Ecotoxic Concentration 50% – concentration in water which is fatal to 50% of a test population (e.g. daphnia, fish species) |
| EPA | Environmental Protection Authority (New Zealand) |
| GHS | Globally Harmonised System of Classification and Labelling of Chemicals, 7 th revised edition, 2017, published by the United Nations. |
| HAZCHEM Code | Emergency action code of numbers and letters that provide information to emergency services, especially fire fighters |
| HSNO | Hazardous Substances and New Organisms (Act and Regulations) |
| IARC | International Agency for Research on Cancer |
| LEL | Lower Explosive Limit |
| LD₅₀ | Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats). |
| LC₅₀ | Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population (usually rats) |
| NZIoC | New Zealand Inventory of Chemicals |
| MSDS (SDS) | Material Safety Data Sheet (or Safety Data Sheet) |
| STEL | Short Term Exposure Limit - The maximum airborne concentration of a chemical or biological agent to which a worker may be exposed in any 15 minute period, provided the TWA is not exceeded |
| STOT RE | System Target Organ Toxicity – Repeated Exposure |
| STOT SE | System Target Organ Toxicity – Single Exposure |
| TWA | Time Weighted Average – generally referred to WES averaged over typical work day (usually 8 hours) |
| UEL | Upper Explosive Limit |
| UN Number | United Nations Number |
| WES | Workplace Exposure Standard - The airborne concentration of a biological or chemical agent to which a worker may be exposed during work hours (usually 8 hours, 5 days a week). The WES relates to exposure that has been measured by personal monitoring using procedures that gather air samples in the worker's breathing zone. |

References

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|--------------------------|---|
| Data | Unless otherwise stated comes from the EPA HSNO chemical classification information database (CCID). |
| Controls | EPA notices, www.epa.govt.nz , Health and Safety at Work (Hazardous Substances) Regulations 2017, www.legislation.govt.nz |
| WES | The latest NZ Workplace Exposure Standards, published by WorkSafe NZ and available on their web site – www.worksafe.govt.nz . |
| Other References: | Suppliers SDS |

Review

| | |
|-------------|--|
| Date | Reason for review |
| July 2021 | Not applicable – new SDS |
| 7 May 2026 | 5 yearly update, update of WES. Expires 7 May 2031 |

Disclaimer

This SDS was prepared by Datachem LTD and is based on our current state of knowledge, including information obtained from suppliers. The SDS is given in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties (as summarised in the SDS) AND HOW THE SUBSTANCE IS USED. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. The likely GHS 7 classifications for this SDS have been estimated based on general information from the supplier (e.g., hazard, toxicological). This SDS is copyright Datachem and must not be copied, edited or used for other than intended purpose. To contact the SDS author, email info@datachem.co.nz or phone: **+64 21 1040951**.

