

**GOLDSEAL INDUSTRIAL RUSTPROOF SPRAY GRADE****1. PRODUCT AND COMPANY IDENTIFICATION**

TRADE NAME: Goldseal Industrial Rustproof
PRODUCT USE: Rust preventative and Corrosion control barrier coating
MANUFACTURER: Rustproof Services NZ (2005) Ltd
P.O.Box 186
Whitianga 3542
New Zealand
Ph: +64 7866 0304
E-mail: Rustproofservices@goldseal.co.nz

EMERGENCY CONTACT:

Australia: Aust. Chemwatch: 00613 9572 4700
New Zealand: NZ 03 4747 000
South Africa:
South America:
Europe:
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2. COMPOSITION AND INFORMATION ON INGREDIENTS

| Ingredient name: | CAS No | Weight |
|--|------------|--------|
| Distillates , petroleum heavy naphthenic: | 64742-52-5 | 30-50% |
| *Octadecanoic Acid,Butyl Ester/ N-Butyl Sterate: | 123-95-5 | 1-5% |
| Petroleum resins: | 64742-16-1 | 0.2-1% |

* This chemical is hazardous according to OSHA/WHIMIS criteria
Composition comments
Refer to section eight for exposure limits
Chemical ingredients not regulated by OSHA or SARA are treated confidentially

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Exposure to vapours at high temperature may cause respiratory irritation.

SENSITIZATION: No known information

CARCINOGENICITY NTP: Not Listed IARC: Not listed as a group 1,2A,2B,or 2C agent

OSHA : Not regulated

TERATOGENICITY: No known information

HEALTH WARNINGS

EYE CONTACT: Irritating

INGESTION: Can cause stomach ache and vomiting. Main hazard if ingested, is aspiration into the lungs and subsequent pneumonitis. INHALATION: Heating can generate vapours that may cause respiratory irritation, nausea and headaches. Inhalation at room temperature is unlikely due to low volatility of product. SKIN CONTACT: Repeated or prolonged contact may cause slight irritation and can result in drying of skin.

ROUTE OF ENTRY: Skin and/or eye contact. Ingestion. Inhalation

4. FIRST AID MEASURES

| | |
|-------------|---|
| INHALATION: | Remove victim from source of exposure. Get medical attention if any discomfort continues. For breathing difficulties oxygen may be necessary. If breathing stops, provide artificial respiration. |
| EYES: | Important! Immediately rinse with water for at least 15 minutes. Get medical attention if any discomfort continues. |
| SKIN: | Immediately remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing. |
| INGESTION: | DO NOT induce vomiting. Get medical attention immediately. |

5. FIRE FIGHTING MEASURES

| | |
|------------------------|---|
| FLASH POINT: | 224 Deg C (435 F) Cleveland open cup. |
| FLAMMABILITY : | LIMIT -LOWER % - No data. |
| FLAMMABILITY: | LIMIT - UPPER % - No data. |
| EXTINGUISHING MEDIA: | Use: Dry Chemical, sand , dolomite, Foam, Carbon Dioxide. |
| SPECIAL FIRE FIGHTING: | Use water to keep fire exposed containers cool and disperse vapours. Water spray may be used to solidify heated spills. Dike for molten spills. Product will float on water and may be recovered in nets. Molten product in spills will quickly set and can be recovered and recycled by filtering under manufacturers guide lines. |
| EXPLOSION HAZARD: | Pressure will increase in over heated, closed containers |
| COMBUSTION PROD: | Product will contribute acrid smoke and fumes with oxides of carbon. |
| PPE IN CASE OF FIRE: | Self contained breathing apparatus and chemical resistant clothing. |

6. ACCIDENTAL RELEASE MEASURES

| | |
|-----------------------|--|
| PERSONAL PRECAUTIONS: | Minimise skin contact. |
| ENVIRONMENTAL: | Keep product out of water courses or sewers by diking or impounding. Advise local authorities of spills or breakouts in line with local regulations. |
| SPILL CLEANUP: | <p>Product is solid as packaged, so spills are unlikely, from damaged containers, without associated fire. If fire potential exists, remove containers to well ventilated area and blanket with foam or cool with water. Product will not dilute in water, however remnants adhering to road surfaces will be slippery and should be removed by dilution with petroleum spirit or degreasers and stiff brooming, followed by detergent cleanup and absorption.</p> <p>If damaged containers are releasing molten product during a fire, dike with sand or dolomite and cool with water jet. Product can be recovered by shovelling into containers then heated and filtered. This will return the product to commercial viability without dumping. Refer to local Licensee.</p> <p>If molten product enters water ways it will immediately cool and float. Collect with containment booms or noodles. Collect larger slabs by hand and smaller particles with fine mesh nets. The product is fully spill recyclable enabling it to be heated and filtered removing water, sticks, stones or organic detritus by local Licensee.</p> <p>Damaged containers can be steel recycled as product is not Dangerous Goods classified for storage or transport.</p> |

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS: During application the product is heated and applied at about 70 deg Celsius. Avoid spills, cone and caution tape the preparation area. Avoid skin and eye contact. When not in use the product is solid and should be kept away from heat sources with the lid closed.

STORAGE PRECAUTIONS: Store separate from strong acids and oxidisers. Not Dangerous Goods classified for storage or transport. Can be stored outside. Product has no shelf life. Store with other associated chemical products.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

| COMPONENT: | STD | TWA | STEL | TWA | STEL |
|------------------------|-------|------------------|------|-------------------|------|
| DISTILLATES PETROLEUM/ | OSHA | 5mg/m3(oil mist) | | | |
| HEAVY NAPHTHENIC: | ACGIH | 5mg/m3(oil mist) | | 10mg/m3(oil mist) | |
| PETROLEUM RESINS: | OSHA | 5mg/m3(oil mist) | | | |
| | ACGIH | 5mg/m3(oil mist) | | 10mg/m3(oil mist) | |

PERSONAL PROTECTIVE EQUIPMENT (PPE)

VENTILATION: No specific requirements noted but forced ventilation may still be required in confined spaces to circulate wax mist and control space temperature.

RESPIRATORS: No specific recommendations but basic masks may be advisable for extended periods of spray application.

PROTECTIVE GLOVES: Application.

EYE PROTECTION: Essential during substrate preparation and around hot product.

PROTECTIVE CLOTHING: Wear appropriate clothing to prevent prolonged skin contact.

HYGIENIC WORK PRACTICES: Wash at the end of each work shift or before eating or using the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/PHYSICAL STATE: Waxy. firm paste to soft slurry

COLOUR: Neutral or coloured red, brown ,grey ,yellow, green or black.

VOLATILE CONTENT: 2.9%

ODOUR: Mild/faint ,waxy, petroleum.

SOLUBILITY: Insoluble in water , soluble in most petroleum spirits.

DENSITY: 0.97 @ 15.6 Deg C or 60 Deg F.

VAPOUR PRESSURE: No data mm/Hg.

Ph VALUE ,SOLUTION CONC: N/A.

10 . STABILITY AND REACTIVITY

STABILITY: Normally stable with no shelf life.

CONDITIONS TO AVOID: Avoid contact with acids and oxidizing substances.

HAZARDOUS POLYMERIZATION: Will not occur.

POLYMERIZATION DESCRIPTION: Not applicable.

HAZARDOUS DECOMPOSITION: Oxides of carbon.

11. TOXICOLOGY INFORMATION

No experimental toxicological data on the preparation as such is available.

COMPONENT: DISTILLATES, PETROLEUM ,HEAVY NAPHTHENIC.
TOXICOLOGICAL DATA: Carcinogenicity. IP 346 <3%.
TOXIC DOSE -LD50: >5000mg/kg (oral rat).
TOXIC DOSE -LD50 SKIN: >2000mg/kg (skin rabbit).
TOXIC CONC-LD50: No information available (NIA).
CARCINOGENICITY: The petroleum base oil in this product has been highly refined to remove aromatics and improve performance characteristics.
The base oil is not listed as a carcinogen by NTP, IARC or OSHA.
COMPONENT: OCTADECANOIC ACID, BUTYL ESTER.
TOXIC DOSE: 32,000mg/kg (oralrat).
COMPONENT: PETROLEUM RESINS.
TOXIC DOSE: No information is available.
TOXIC CONC: No information is available.
CARCINOGENICITY OSHA: Not regulated. NTP: Not listed. IARC.
Not listed as Group 1,2A or 2B agent.

12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: There is no specific ecological data on the product itself.

COMPONENT: DISTILLATES , PETROLEUM , HEAVY NAPHTHENIC.
COMPONENT: OCTADECANOIC ACID, BUTYL ESTER.
PARTITION COEFFICIENT: (log pow) 9.70.
COMPONENT: PETROLEUM RESINS.

13. DISPOSAL METHODS

Spills on water will float and can be collected into steel containers. Spills on the ground can be shovelled into containers and returned to the local licensee. The product is spill recyclable. Since the product has no shelf life it should not need dumping. However unused material in empty containers should be disposed of according to local, state and federal regulations. Steel drums are recycle able.

14. TRANSPORT INFORMATION

DOT HAZARD CLASS: Not regulated.
REPORTABLE QUANTITY: (RQ) No.
U.S. DOT HAZARD LABEL: No DOT label requirement.
SEA TRANSPORT NOTES: Not regulated per IMDG.
AIR TRANSPORT NOTES: Not regulated per IATA.

15 REGULATORY INFORMATION

US FEDERAL REGULATIONS:

| COMPONENT: | SARA 302 | CERCLA | SARA 313 |
|--|----------|--------|----------|
| DISTILLATES, PETROLEUM HEAVY NAPHTHENIC: | No | No | No |
| PETROLEUM RESINS: | No | No | No |

REGULATORY STATUS: Not regulated under SARA302, SARA 313 or CERCLA

US STATE REGULATIONS CLEAN AIR ACT

| COMPONENT | CA | MA | FL | MN | NJ | PA | RI |
|--|----|----|----|----|----|-----|-----|
| DISTILLATES, PETROLEUM, HEAVY NAPHTHENIC | | | | | | Yes | Yes |

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM:

WHMIS NOT CONTROLLED : This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. Not a controlled product.

RISK PHASES: R-36/37/38 Irritating to eyes, respiratory system and skin.

GLOBAL INVENTORIES

| COMPONENT: | CAN | US | EU | AUS | JAP | KOR | PHLP | CHN |
|--|--|-----|--------|-----|-----|-----|------|-----|
| OCTADECANOIC ACID/BUTYL ESTER: | DSL | Yes | EINECS | Yes | Yes | Yes | Yes | |
| PETROLEUM RESINS: | DSL | Yes | EINECS | Yes | Yes | Yes | | Yes |
| DISTILLATES,PETROLEUM , HEA NAPH: USA (TSCA): | DSL | Yes | EINECS | Yes | Yes | Yes | Yes | Yes |
| | All components in this product are listed on the US Toxic Substances Control Act (TSCA) Inventory or are exempt from TSCA Inventory requirements. | | | | | | | |
| CANADA (DSL): | All components in this product are listed on the Canada Domestic Substances List (DSL) or are exempt from DSL requirements. | | | | | | | |
| EUROPE: | All components in this product are listed on the European Inventory of New and Existing Chemical Substances (EINECS) , the European List of Notified Chemical Substances (ELINCS) or the No Longer Polymers (NLP) list or are exempt from EU listing requirements. | | | | | | | |

16. OTHER INFORMATION NFPA-HMIS HAZARD RATING

HEALTH: Irritation, minor residual injury (1) - HMIS/NFPA.

FLAMMABILITY: Burns only if pre-heated (1) - HMIS/NFPA.

NCPA HMIS HAZARD INDEX : SLIGHT. May cause slight irritation (1).

PERSONAL PROTECTION: INDEX B - SAFETY EYEWEAR AND GLOVES.

NCPA HMIS FLAMMABILITY INDEX - BURNS ONLY IF PRE-HEATED (1).

PREPARED BY : Charles Stevenson

Disclaimer: While the information and recommendations set forth herein are believed to be accurate as of the revision date , the company (Rustproof Services NZ (2005) Ltd) makes no warranty with respect thereto and disclaims all liability from reliance therein.

