



SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: **Redex Engine Flush**
Product Code: RDX22
Product Use: Engine Flush
Restriction of Use: Refer to Section 15

New Zealand Supplier: **Filpro Automotive NZ Ltd**
Address: 40 Firth St Drury
Auckland
Telephone: +64 9 2946752
Fax Number: +64 9 2946751

Emergency Telephone: 0800 764 766 (National Poison Centre)

Holt Lloyd International
Address: Barton Dock Road
Manchester M32 0YQ England
Inquires: +44 161 866 4800

Date of SDS Preparation: 04 March 2021

Section 2. Hazards Identification

This substance is hazardous according to the *HSNO (Minimum Degrees of Hazard) Regulations 2001*

EPA Approval No: Additives, Process Chemical and Raw Materials (Subsidiary Hazard) – HSR002503

Pictograms

N / A

Signal Word: WARNING

| HSNO Classification | Hazard Code | Hazard Statement | GHS Category |
|---------------------|-------------|---|--------------|
| 6.1D (oral) | H302 | Harmful if swallowed. | Category 4 |
| 6.1E (aspiration) | H304 | May be fatal if swallowed and enters airways. | Category 1 |
| 6.3B | H316 | Causes mild skin irritation. | Category 3 |
| 6.4A | H319 | Causes serious eye irritation. | Category 2A |
| 9.1D | H402 | Harmful to aquatic life | Category 4 |

| Prevention Code | Prevention Statement |
|-----------------|--------------------------------|
| P102 | Keep out of reach of children. |
| P103 | Read label before use. |

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| P210 | Keep away from heat, sparks, open flames, hot surfaces. No smoking. |
| P264 | Wash exposed skin thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this product. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves, protective clothing, and eye protection. |

| Response Code | Response Statement |
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| P101 | If medical advice is needed, have product container or label at hand. |
| P330 | Rinse mouth. |
| P331 | Do NOT induce vomiting. |
| P301 + P310 | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. |
| P301 + P312 | IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. |
| P305 + P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P332 + P313 | If skin irritation occurs: Get medical advice/ attention. |
| P337 + P313 | If eye irritation persists: Get medical advice/attention. |
| P370 + P378 | In case of fire: Use CO ₂ , dry powder, chemical foam for extinction. |

| Storage Code | Storage Statement |
|--------------|--|
| P405 | Store locked up. |
| P403 + P235 | Store in a well-ventilated place. Keep cool. |

| Disposal Code | Disposal Statement |
|---------------|--|
| P501 | Dispose of according to Local Regulations or Authorities |

Section 3. Composition / Information on Ingredients

| Ingredients | Wt% | CAS NUMBER. |
|------------------------------|---------|-------------|
| Mix of Petroleum Distillates | 95-100 | Proprietary |
| Zinc dialkyl dithiophate | <1% | 68649-42-3 |
| Non hazardous substances | balance | |

Section 4. First Aid Measures

Routes of Exposure:

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| If in Eyes | Rinse cautiously with water for 15 minutes. If eye irritation persists: Get medical advice. |
| If on Skin | Wash with plenty of soap and water. Take off contaminated clothing and wash before re-use. If skin irritation occurs: get medical advice/attention. |
| If Swallowed | Rinse mouth. DO NOT induce vomiting. Never give anything to the mouth of an unconscious person. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs. Immediately call a POISON CENTER (0800 764 766) or a doctor/physician. |
| If Inhaled | Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if breathing becomes difficult. |

Section 5. Fire Fighting Measures

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| Hazard Type | Product is not likely to be combustible |
| Hazards from combustion | None known. |

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| products | |
| Suitable Extinguishing media | Use CO ₂ , dry powder, or chemical foam for extinction. Always choose fire-extinguishing media appropriate for surrounding materials. |
| Precautions for firefighters and special protective clothing | Wear full protective gear. |
| HAZCHEM CODE | 2X |

Section 6. Accidental Release Measures

Wear protective equipment as detailed in Section 8. Clear area of any unprotected personnel.

Collect for reclamation or absorb in vermiculite, dry sand or similar material.

Do not contaminate water sources or sewer. Dispose of according to Local Regulations.

Section 7. Handling and Storage

Precautions for Handling:

- Read label before use.
- Keep away from heat, sparks, open flames and hot surfaces. No smoking.
- Keep container tightly closed.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical/ventilating/lighting.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Avoid release to the environment.
- Wear protective clothing.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Keep out of reach of children
- Store locked up.
- Store in a well-ventilated place. Keep cool.
- Store above freezing.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

| Substance | TWA | | STEL | |
|-----------|-----|-------------------|------|-------------------|
| | ppm | mg/m ³ | ppm | mg/m ³ |

No ingredients have exposure limits

Workplace Exposure Standard – Time Weighted Average (WES-TWA). *The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure.* Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). *The 15-minute average exposure standard.* Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply.

Engineering Controls

Ensure adequate ventilation is available.

Personal Protection

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| Eyes | Wear goggles with side shields. Avoid wearing contact lenses. |
| Hands and Skin | Use suitable protective gloves if risk of skin contact. EN374 Rubber gloves are recommended. |

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| Respiratory | If ventilation is poor, use appropriate cartridge respirator. |
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| Section 9 | Physical and Chemical Properties |
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| Appearance | Amber liquid |
| Odour | Mild petroleum |
| Odour Threshold | Not applicable |
| pH | Not applicable |
| Boiling Point | Not applicable |
| Melting Point | Not applicable |
| Freezing Point | Not applicable |
| Flash Point | Not available |
| Flammability | Unlikely To Be Combustible |
| Upper and Lower Exposure Limits | Not applicable |
| Vapour Pressure | Not applicable |
| Vapour Density | Not applicable |
| Relative Density | Not applicable |
| Solubilities | Insoluble |
| Partition Coefficient: | Not applicable |
| Auto-ignition Temperature | Not applicable |
| Decomposition Temperature | Not applicable |
| Kinematic Viscosity | Not applicable |
| Particle Characteristics | Not applicable |

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| Section 10. Stability and Reactivity |
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| Stability of Substance | This product is stable under normal conditions. |
| Conditions to Avoid | Keep away from heat, sparks, open flames and hot surfaces |
| Incompatible Materials | None known. |
| Hazardous Decomposition Products | None known. |

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| Section 11 | Toxicological Information |
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Acute Effects:

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| Swallowed | Harmful if swallowed. LD ₅₀ = 500mg/kg (calculation average) |
| Dermal | Not applicable. |
| Inhalation | May be fatal if swallowed and enters airways. |
| Eye | Causes serious eye irritation. |
| Skin | Causes mild skin irritation. |

Chronic Effects:

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|-------------------------------|---|
| Carcinogenicity | Not applicable. |
| Reproductive Toxicity | Not applicable. |
| Germ Cell Mutagenicity | Not applicable. |
| Aspiration | May be fatal if swallowed and enters airways. |
| STOT/SE | Not applicable. |
| STOT/RE | Not applicable. |

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| Section 12. Ecotoxicological Information |
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HSNO Classes: 9.1D = Harmful to aquatic life with long lasting effects.

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| Persistence and degradability | No data available |
| Bioaccumulation | No data available |
| Mobility in Soil | No data available |
| Other adverse effects | No data available |

Do not allow to enter waterways.

Section 13. Disposal Considerations

Disposal Method:

Precautions: Dispose of waste according to Local regulations. Collected spillage and unused product must be placed in a sealable waste container for disposal through a disposal company.

Disposal methods to avoid: Do not allow product to enter sewers, streams, or waterways

Section 14 Transport Information

This product is NOT classified as a Dangerous Good in NZ ; NZS 5433:2012

Section 15 Regulatory Information

EPA Approval Code: **Additives, Process Chemical and Raw Materials (Combustible) – HSR002490**

HSNO Classification: 6.1D(oral), 6.1E(asp), 6.3B, 6.4A, 9.1D

HSNO Controls:

Trigger quantities for this substance:

| | Trigger Quantity |
|-----------------------------|--|
| Approved Handler | Not required |
| Location Certificate | Not required |
| Tracking Trigger Quantities | Not required |
| Signage Trigger Quantities | 10 000L |
| Emergency Response Plan | 1000L |
| Secondary Containment | 1000L |
| Restriction of Use | Additive, Process Chemical, or Raw Material only |

Section 16 Other Information

Glossary

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| EC ₅₀ | Median effective concentration. |
| EEL | Environmental Exposure Limit. |
| EPA | Environmental Protection Authority |
| HSNO | Hazardous Substances and New Organisms. |
| LC ₅₀ | Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it. |
| LD ₅₀ | Lethal dose to kill 50% of test animals/organisms. |
| LEL | Lower explosive level. |
| OSHA | American Occupational Safety and Health Administration. |
| TEL | Tolerable Exposure Limit. |
| TLV | Threshold Limit Value-an exposure limit set by responsible authority. |
| UEL | Upper Explosive Level |
| WES | Workplace Exposure Limit |
| AWC | Aggregate water capacity |

1. HSNO Approved Code of Practice: Preparation of Safety Data Sheets, September 2006.

Disclaimer

This document has been issued by Filpro Automotive Ltd and serves as their Safety Data Sheet ('SDS'). It represents the appropriate safety and handling precautions for the product at the time of issue. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated., it does not provide any warranty as to accuracy or completeness. Please contact the country distributor, if further information is required.

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