# SAFETY DATA SHEET

## Section 1. Identification of the material and the supplier

| | |
|---|---|
| Product: | **Dinitrol MS40 Spray** |
| Product Use: | Lubricant and additive rust remover |
| Restriction of Use: | Refer to Section 15 |
| New Zealand Supplier: | **Auto Body Equipment** |
| Address: | 17 The Boulevard<br>Te Rapa, Hamilton, 3200<br>New Zealand |
| Telephone: | +64 7 849 3514 |
| Email: | office@abe.co.nz |
| **Emergency No:** | **0800 764 766 (National Poison Centre)** |
| Date of SDS Preparation: | 4 August 2023 |

## Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

**EPA Approval No: Aerosols (Flammable) – HSR002515**

**Pictograms:**

Signal Word: **DANGER**

| GHS Classification and Category | Hazard Code | Hazard Statement |
|---|---|---|
| Aerosol Cat. 1 | H222 | Extremely flammable aerosol. |
| | H229 | Pressurised container: May burst if heated |
| specific target organ toxicity - single exposure Cat 3 - Narcotic Effects | H336 | May cause drowsiness or dizziness. |

| Prevention Code | Prevention Statement |
|---|---|
| P103 | Read carefully and follow all instructions. |
| 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. |
| P261 | Avoid breathing fumes, gas, mist, vapours or spray. |
| P271 | Use only outdoors or in a well-ventilated area. |

| Response Code | Response Statement |
|---|---|
| P312 | Call a POISON CENTER or doctor/physician if you feel unwell. |
| P304 + P340 | IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. |

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

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

## Section 3. Composition / Information on Hazardous Ingredients

| Ingredients | Wt% | CAS NUMBER. |
|---|---|---|
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics | 50-<75 | 64742-48-9 |
| Baseoil - unspecified, Distillates (petroleum), hydrotreated light paraffinic | 12.5-<20 | 64742-55-8 |
| Carbon Dioxide | 1-2.5 | 124-38-9 |
| Calcium bis (di C8-C10, branched, C9 rich, alkylnaphthalenesulphonate) | <2.5 | EC No 939-717-7 |

## Section 4. First Aid Measures

Routes of Exposure:

If in Eyes — Rinse cautiously with water for several minutes. Consult an ophthalmologist.

If on Skin — Wash with plenty of water/Soap. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

If Swallowed — If swallowed, rinse mouth with water (only if the person is conscious). Call a physician immediately.

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. Apply artificial respiration if not breathing. Get medical advice if breathing becomes difficult.

**Most important symptoms and effects, both acute and delayed**

Symptoms:
Swallowed: Not applicable.
Inhalation: May cause drowsiness or dizziness.
Skin: Not applicable.
Eyes: Not applicable.

## Section 5. Fire Fighting Measures

| | |
|---|---|
| **Hazard Type** | Flammable Aerosol. Vapours can form explosive mixtures with air. |
| **Hazards from products** | In case of fire may be liberated: Gases/vapours, toxic |
| **Suitable Extinguishing media** | Carbon dioxide (CO2), Foam, Extinguishing powder, water fog.<br>Do not use high power water jet. |

| | |
|---|---|
| **Precautions for firefighters and special protective clothing** | In case of fire: Wear self-contained breathing apparatus. Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. |
| **HAZCHEM CODE** | **None allocated** |

## Section 6. Accidental Release Measures

Wear protective gear as detailed in Section 8. Remove all sources of ignition. Provide adequate ventilation. Avoid breathing gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes.

Do not allow to enter into surface water or drains.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Prevent spread over a wide area (e.g. by containment or oil barriers). Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

Dispose of waste according to the applicable local regulations detailed in Section 13.

## Section 7. Handling and Storage

**Precautions for Handling:**

- Read carefully and follow all instructions.
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Do not spray on an open flame or other ignition source.
- Do not pierce or burn, even after use.
- Heating causes rise in pressure with risk of bursting.
- Avoid breathing fumes, gas, mist, vapours or spray.
- Use only outdoors or in a well-ventilated area.
- If handled uncovered, arrangements with local exhaust ventilation have to be used.
- If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.
- Remove contaminated, saturated clothing immediately.
- When using do not eat or drink.
- Wash hands before breaks and after work.
- Avoid contact with skin and eyes.
- Keep away from food, drink and animal feeding stuffs.

**Precautions for Storage:**

- Store away from incompatible materials listed in Section 10.
- Store locked up.
- Store in a well-ventilated place, sealed and dry.
- Keep container tightly closed.
- Protect from direct sunlight.
- Do not expose to temperatures exceeding 50 °C.
- Store in a place accessible by authorized persons only.

## Section 8 Exposure Controls / Personal Protection

**WORKPLACE EXPOSURE STANDARDS (provided for guidance only)**

| | TWA | | STEL | |
|---|---|---|---|---|
| **Substance** | **ppm** | **mg/m$^3$** | **ppm** | **mg/m$^3$** |
| Carbon dioxide [124-38-9] | 5000 | 9000 | 30000 | 54000 |

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. Workplace Exposure Standards and Biological Exposure Indices APRIL 2022 13TH EDITION.

**DNEL/DMEL values**

| CAS No Substance | | | |
|---|---|---|---|
| DNEL type | Exposure route | Effect | Value |
| 64742-48-9 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics | | | |
| Worker DNEL, long-term | dermal | systemic | 300 mg/kg bw/day |
| Worker DNEL, long-term | inhalation | systemic | 1500 mg/m³ |
| Consumer DNEL, long-term | inhalation | systemic | 900 mg/m³ |
| Consumer DNEL, long-term | dermal | systemic | 300 mg/kg bw/day |
| Consumer DNEL, long-term | oral | systemic | 300 mg/kg bw/day |

**Engineering Controls**

Provide adequate ventilation.
If handled uncovered, arrangements with local exhaust ventilation should be used if possible.
If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

**Personal Protection Equipment**

| | |
|---|---|
| **Eyes** | Eye glasses with side protection (EN 166). |
| **Hands** | Tested protective gloves must be worn (EN ISO 374):<br>FKM (fluoro rubber), Breakthrough time:480 min<br>NBR (Nitrile rubber), Breakthrough time: 480 min<br>For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.<br>Protective gloves have to be replaced at the first sign of deterioration.<br>Protect skin by using skin protective cream. |
| **Skin** | Wear anti-static footwear and clothing. |
| **Respiratory** | Work in well-ventilated zones or use proper respiratory protection. gas filtering equipment (EN 141)., Filter material/medium: A2/P3 |

## Section 9 Physical and Chemical Properties

| | |
|---|---|
| **Form** | Aerosol |
| **Colour** | Light Brown |
| **Odour** | Characteristic |
| **Odour Threshold** | Not available |
| **pH @20$^0$C** | Not available |
| **Boiling Point** | Not available |
| **Melting Point** | Not available |
| **Freezing Point** | Not available |
| **Flash Point** | Not available |
| **Flammability** | Flammable Aerosol |
| **Upper and Lower Explosive Limits** | 0.6 Vol% - 7.0 Vol % |
| **Vapour Pressure @20$^0$C** | 5500 hPa |
| **Density@ 20$^0$C** | 0.8 g/cm$^3$ |

| | |
|---|---|
| **Specific Gravity** | Not available |
| **Water Solubility** | The study does not need to be conducted because the substance is known to be insoluble in water. |
| **Partition Coefficient:** | Not available |
| **Auto-Ignition Temperature** | $240^0$C |
| **Decomposition Temperature** | Not available |
| **Viscosity /Dynamic** | Not available |
| **Particle Characteristics** | Not available |
| **Solvent content** | 73% |
| **Solids content** | 6% |

## Section 10. Stability and Reactivity

| | |
|---|---|
| **Stability of Substance** | The product is stable under storage at normal ambient temperatures. |
| **Possibility of hazardous reactions** | No hazardous reaction when handled and stored according to provisions. |
| **Conditions to Avoid** | Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air. |
| **Incompatible Materials** | No data available. |
| **Hazardous Decomposition Products** | No known hazardous decomposition products. |

## Section 11 Toxicological Information

**Acute Effects:**

| | |
|---|---|
| **Swallowed** | Not applicable. |
| **Dermal** | Not applicable. |
| **Inhalation** | Not applicable. ATE (inhalation vapour) 27,12 mg/l |
| **Eye** | Not applicable. |
| **Skin** | Not applicable. |

**Chronic Effects:**

| | |
|---|---|
| **Carcinogenicity** | Not applicable. |
| **Reproductive Toxicity** | Not applicable. |
| **Germ Cell Mutagenicity** | Not applicable. |
| **Aspiration** | Not applicable. |
| **STOT/SE** | Not applicable. |
| **STOT/RE** | May cause drowsiness or dizziness. |

Toxicity:

| CAS No | Chemical name | | | | |
|---|---|---|---|---|---|
| | Exposure route | Dose | Species | Source | |
| 64742-48-9 | Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics | | | | |
| | oral | LD50 >5000 mg/kg | Rat | | |
| | dermal | LD50 >3000 mg/kg | Rat | | |
| | inhalation (4 h) vapour | LC50 5000 mg/l | Rat | | |
| 64742-55-8 | Baseoil - unspecified, Distillates (petroleum), hydrotreated light paraffinic | | | | |
| | oral | LD50 >5000 mg/kg | Rat | | |

| | | | | | |
|---|---|---|---|---|---|
| | dermal | LD50 >3000 mg/kg | Rabbit | | |
| | inhalation (4 h) vapour | LC50 5,53 mg/l | Rat | | |
| | calcium bis (di C8-C10, branched, C9 rich, alkylnaphthalenesulphonate) | | | | |
| | oral | LD50 >5000 mg/kg | Rat | | |
| | dermal | LD50 > 20000 mg/kg | Rabbit | | |
| | inhalation (4 h) vapour | LC50 > 18 mg/l | Rat | | |

## Section 12. Ecotoxicological Information

Based on available data, the classification criteria are not met.

**Toxicity:**

| CAS No | Chemical name | | | | | |
|---|---|---|---|---|---|---|
| | Aquatic toxicity | Dose | [h] \| [d] | Species | Source | Method |
| 64742-55-8 | Baseoil - unspecified, Distillates (petroleum), hydrotreated light paraffinic | | | | | |
| | Acute fish toxicity | LC50 >100 mg/l | 96 h | Pimephales promelas (fathead minnow) | | |
| | Acute crustacea toxicity | EC50 >10000 mg/l | 48 h | Daphnia magna (Big water flea) | | |
| | Algae toxicity | NOEC >100 mg/l | 3 d | Pseudokirchneriella subcapitata | | |
| | Crustacea toxicity | NOEC >10 mg/l | 21 d | Daphnia magna (Big water flea) | | |
| | calcium bis (di C8-C10, branched, C9 rich, alkylnaphthalenesulphonate) | | | | | |
| | Acute fish toxicity | LC50 > 0,28 mg/l | 96 h | fish | | |
| | Acute crustacea toxicity | EC50 > 0,27 mg/l | 48 h | Daphnia magna (Big water flea) | | |
| | Algae toxicity | NOEC > 0,27 mg/l | 3 d | | | |

**Persistence and Degradability:**

There are no data available on the mixture itself.

| CAS No | Chemical name | | |
|---|---|---|---|
| | Method | Value | d |
| | Evaluation | | |
| 64742-48-9 | Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics | | |
| | Readily biodegradable (according to OECD criteria). | 80 % | |

**Bioaccumulative Potential:**

There are no data available on the mixture itself.

**Partition coefficient n-octanol/water**

| CAS No | Chemical name | Log Pow |
|---|---|---|
| 64742-55-8 | Baseoil - unspecified, Distillates (petroleum), hydrotreated light paraffinic | >3,5 |
| 124-38-9 | Carbon dioxide | 0,83 |

**Mobility in Soil:**

There are no data available on the mixture itself.

## Section 13. Disposal Considerations

**Disposal Method:**

Spent media that has removed toxic chemicals should be examined for specific hazards. Spilled

product may be recovered for use if it has not come in contact with liquids or been exposed to significant amounts of gaseous contaminants. Dispose of according to Local Regulations.

Ensure any container holding waste product or contaminated spill media is labelled "Hazardous Waste – "Flammable Aerosol" and that the label also has the Flammable Pictogram, and the business name, address, and phone number.

**Precautions or methods to avoid:** None known.

## Section 14 Transport Information

**This product is classified as a Dangerous Good for transport in NZ; NZS 5433:2020 and SNZ HB 5433:2021**


**Road, Rail, Sea and Air Transport**

| | |
|---|---|
| **UN No** | 1950 |
| **Class - Primary** | 2 |
| **Packing Group** | N/A |
| **Proper Shipping Name** | AEROSOLS |
| **Marine Pollutant** | NO |
| **Special Provisions** | If the product's individual container is below 1L, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.<br>Special Provisions: 63, 190, 277, 344, 327 |

## Section 15 Regulatory Information

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval Code: Aerosols (Flammable) – HSR002515

| HSW (HS) Regulations 2017 and EPA Notices | Trigger Quantity |
|---|---|
| Certified Handler | Not required |
| Location Certificate | 3000L (AWC) |
| Tracking Trigger Quantities | Not required |
| Signage Trigger Quantities | 3000L (AWC) |
| Emergency Response Plan | 3000L (AWC) |
| Secondary Containment | 3000L (AWC) |
| Fire Extinguishers | 3000L (AWC) - require 1X |
| Restriction of Use | Only use for the intended purpose. |

## Section 16 Other Information

### Glossary

| | |
|---|---|
| $EC_{50}$ | Median effective concentration. |
| EEL | Environmental Exposure Limit. |
| EPA | Environmental Protection Authority |
| HSNO | Hazardous Substances and New Organisms. |
| HSW | Health and Safety at Work. |
| $LC_{50}$ | 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 |

References:


1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices April 2022 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2020
5. HSW (Hazardous Substances) Regulations 2017


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Please contact Auto Body Equipment, if further information is required.

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