



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
Te Rapa, Hamilton, 3200
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 (CO ₂), Foam, Extinguishing powder, water fog. 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)

Substance	TWA		STEL	
	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	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/m ³
Consumer DNEL, long-term		inhalation	systemic	900 mg/m ³
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): FKM (fluoro rubber), Breakthrough time:480 min NBR (Nitrile rubber), Breakthrough time: 480 min 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. Protective gloves have to be replaced at the first sign of deterioration. 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°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°C	5500 hPa
Density@ 20°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°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 mg/kg	>3000	Rabbit		
	inhalation (4 h) vapour	LC50	5,53 mg/l	Rat		
calcium bis (di C8-C10, branched, C9 rich, alkyl)naphthalenesulphonate						
	oral	LD50 mg/kg	>5000	Rat		
	dermal	LD50 mg/kg	> 20000	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 mg/l	>100	96 h	Pimephales promelas (fathead minnow)	
	Acute crustacea toxicity	EC50 mg/l	>10000	48 h	Daphnia magna (Big water flea)	
	Algae toxicity	NOEC mg/l	>100	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, alkyl)naphthalenesulphonate						
	Acute fish toxicity	LC50 mg/l	> 0,28	96 h	fish	
	Acute crustacea toxicity	EC50 mg/l	> 0,27	48 h	Daphnia magna (Big water flea)	
	Algae toxicity	NOEC mg/l	> 0,27	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. 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

Disclaimer

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

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