



SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: **Dinitrol 4941 Aerosol**
Product Use: Anti Corrosive Additive
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: 22 June 2018

Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

EPA Approval No: Aerosols (Flammable) – HSR002515

Pictograms



Flammable



Irritant



Chronic



Ecotoxic

Signal Word: **DANGER**

HSNO Classes	Hazard Code	Hazard Statement	GHS Category
2.1.2A	H222	Extremely flammable aerosol.	Flam. Aero. 1
6.3B	H316	Causes mild skin irritation.	Skin Irrit. 3
6.4A	H319	Causes serious eye irritation.	Eye Irrit. 2A
6.8B	H361	Suspected of damaging fertility or the unborn child.	Repr. 2
6.9B	H373	May cause damage to organs through prolonged or repeated exposure.	STOT RE 2
6.9N	H336	May cause drowsiness or dizziness.	STOT SE 3
9.1B	H411	Toxic to aquatic life with long lasting effects.	Aquatic Chronic 2

Prevention Code	Prevention Statement
P103	Read label before use.
P201	Obtain special instructions before use.

P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, sparks, open flames or hot surfaces. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Pressurized container: Do not pierce or burn, even after use.
P260	Do not breathe fumes, vapours or spray.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective clothing.
P281	Use personal protective equipment as required.

Response Code	Response Statement
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P314	Get medical advice/attention if you feel unwell.
P391	Collect spillage.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.

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.
Naphtha (petroleum), hydrotreated light	10-<25	64742-49-0
Methyl Ethyl ketone	10-<25	78-93-3
Propane Liquefied	10-<25	74-98-6
Butane, pure	10-<25	106-97-8
Naphtha (petroleum), hydrotreated light	2-<10	64742-49-0
Solvent naphtha (petroleum), light arom.	1-<5	64742-95-6
Methanol	<1	67-56-1

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.
If on Skin	Immediately wash with water and soap and rinse thoroughly. If skin irritation occurs: get medical advice/attention.
If Swallowed	Rinse mouth. Wash out mouth thoroughly with water. 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. Call a POISON CENTER if unwell.
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:

Ingestion: Not applicable.

Inhalation: Not applicable.

Skin: Causes mild skin irritation.

Eye: Causes eye irritation.

Chronic: Suspected of damaging fertility or the unborn child. Prolonged or repeated exposure may cause damage to the organs. May cause drowsiness or dizziness.

Section 5. Fire Fighting Measures

Hazard Type	Flammable Aerosol
Hazards from decomposition products	Carbon monoxide, Nitrogen oxides (NOx).
Suitable Extinguishing media	CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Do not use water with full jet.
Precautions for firefighters and special protective clothing	Mount respiratory protective device. Cool endangered receptacles with water spray.
HAZCHEM CODE	2YE

Section 6. Accidental Release Measures

Wear protective gear as detailed in Section 8. Evacuate all unnecessary personnel. Ensure adequate ventilation. Keep away from ignition sources.

Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of waste according to the applicable local and national regulations.

Section 7. Handling and Storage

Precautions for Handling:

- Keep out of reach of children.
- Read label before use.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Open and handle receptacle with care.
- Keep away from heat, sparks, open flames or hot surfaces. No smoking.
- Do not spray on an open flame or other ignition source.
- Pressurized container: Do not pierce or burn, even after use.
- Do not breathe fumes, gas, vapours or spray.
- Wash hands thoroughly after handling.
- Use only outdoors or in a well-ventilated area.
- Avoid release to the environment.
- Wear protective clothing.
- Use personal protective equipment as required.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Store locked up.
- Store in a well-ventilated place. Keep container tightly closed.
- Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C.
- Do not seal receptacle gas tight.
- Do not pierce or burn, even after use.
- Store in a cool location.
- Do not seal receptacle gas tight.
- Store in cool, dry conditions in well sealed receptacles.
- Protect from heat and direct sunlight.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
Propane [74-98-6]	Simple asphyxiant – may present an explosion hazard			
Butane [106-97-8]	800	1,900		
Methyl ethyl ketone [78-93-3]	150	445	300	890
Methanol [67-56-1]	200	262	250	328

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 NOV 2017 9TH EDITION.

DNELs		
64742-49-0 Naphtha (petroleum), hydrotreated light		
Oral	Long-term - systemic effects, general population	699 mg/kg bw/day (General Population)
Dermal	Long-term - systemic effects, general population	699 mg/kg bw/day (General population)
	Long-term - systemic effects, worker	773 mg/kg bw/day (Worker)
Inhalative	Long-term - systemic effects, general population	608 mg/m3 (General Population)
	Long-term - systemic effects, worker	2035 mg/m3 (Worker)
64742-49-0 Naphtha (petroleum), hydrotreated light		
Oral	Long-term - systemic effects, general population	300 mg/kg bw/day (General Population)
Dermal	Long-term - systemic effects, general population	300 mg/kg bw/day (General population)
	Long-term - systemic effects, worker	300 mg/kg bw/day (Worker)
Inhalative	Long-term - systemic effects, general population	900 mg/m3 (General Population)
	Long-term - systemic effects, worker	1500 mg/m3 (Worker)
64742-49-0 Naphtha (petroleum), hydrotreated light		
Oral	Long-term - systemic effects, general population	699 mg/kg bw/day (General Population)
Dermal	Long-term - systemic effects, general population	699 mg/kg bw/day (General population)
	Long-term - systemic effects, worker	773 mg/kg bw/day (Worker)
Inhalative	Long-term - systemic effects, general population	608 mg/m3 (General Population)
	Long-term - systemic effects, worker	2035 mg/m3 (Worker)
64742-95-6 Solvent naphtha (petroleum), light arom.		
Oral	Long-term - systemic effects, general population	11 mg/kg bw/day (General Population)
Dermal	Long-term - systemic effects, general population	11 mg/kg bw/day (General population)
	Long-term - systemic effects, worker	25 mg/kg bw/day (Worker)
Inhalative	Long-term - systemic effects, worker	150 mg/m3 (Worker)
67-56-1 Methanol		

Oral	<i>Acute - systemic effects, general population</i>	8 mg/kg bw/day (General Population)
	<i>Long-term - systemic effects, general population</i>	8 mg/kg bw/day (General Population)
Dermal	<i>Acute - systemic effects, general population</i>	8 mg/kg (General population)
	<i>Acute - systemic effects, worker</i>	40 mg/kg bw/day (Worker)
	<i>Long-term - systemic effects, general population</i>	8 mg/kg bw/day (General population)
	<i>Long-term - systemic effects, worker</i>	40 mg/kg bw/day (Worker)
Inhalative	<i>Acute - Local effects, worker</i>	260 mg/m3 (Worker)
	<i>Acute - local effects, general population</i>	50 mg/m3 (General Population)
	<i>Acute - systemic effects, general population</i>	50 mg/m3 (General Population)
	<i>Acute - systemic effects, worker</i>	260 mg/m3 (Worker)
	<i>Long-term - local effects, general population</i>	50 mg/m3 (General Population)
	<i>Long-term - local effects, worker</i>	260 mg/m3 (Worker)
	<i>Long-term - systemic effects, general population</i>	50 mg/m3 (General Population)
	<i>Long-term - systemic effects, worker</i>	260 mg/m3 (Worker)
· PNECs		
67-56-1 Methanol		
<i>Aquatic compartment - freshwater</i>	154 mg/L (not specified) 15.4	
<i>Aquatic compartment - marine water</i>	mg/L (not specified) 570.4 mg/kg	
<i>Aquatic compartment - sediment in marine water</i>	sed dw (not specified)	
<i>Aquatic compartment - water, intermittent releases</i>	1540 mg/L (not specified)	
<i>Sewage treatment plant</i>	100 mg/L (not specified)	
<i>Terrestrial compartment - soil</i>	23.5 mg/kg dw (not specified)	
· Ingredients with biological limit values:		
78-93-3 Methyl ethyl ketone		
BMGV	70 µmol/L Medium: urine Sampling time: post shift Parameter: butan-2-one	

Engineering Controls

Ensure there is adequate ventilation available.

Personal Protection Equipment



Eyes	Tightly sealed goggles with side shields. Avoid wearing contact lenses.
Skin	Not required.
Respiratory	In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Filter A/P2 / Filter AX
General	Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes. Avoid contact with the eyes and skin.

Section 9 Physical and Chemical Properties

Form	Aerosol
Colour	Black
Odour	Characteristic
Odour Threshold	Not available
pH @20°C	Not available

Boiling Point	-44 ^o C
Melting Point	Not available
Freezing Point	Not available
Flash Point	<-20 °C (DIN 53213)
Flammability	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Upper and Lower Explosive Limits	0.6 – 11.5% (vol)
Vapour Pressure @20^oC	8300 hPa
Density@ 20^oC	0.812 g/cm ³ (DIN 51757)
Specific Gravity	Not available
Water Solubility	Not miscible or difficult to mix.
Partition Coefficient:	Not available
Ignition Temperature	200 ^o C
Decomposition Temperature	Not available
Kinematic Viscosity @20^oC	Not available
Particle Characteristics	Not available
Solvent content	Organic Solvents: 65.1% Water: 0.1%
Solids content	34.8% (DIN 53216)
VOC(EU)	528.9 g/L 65.14%

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reactions known.
Conditions to Avoid	Keep away from heat, sparks, open flames or hot surfaces. No smoking. Protect from sunlight and do not expose to temperatures exceeding 50 °C.
Incompatible Materials	None known.
Hazardous Decomposition Products	No decomposition if used according to specifications.

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable.
Dermal	Not applicable.
Inhalation	Not applicable.
Eye	Causes serious eye irritation.
Skin	Causes mild skin irritation.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Suspected of damaging fertility or the unborn child.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	May cause drowsiness or dizziness.
STOT/RE	May cause damage to organs through prolonged or repeated exposure.

Acute Toxicity -

Chemical Name	LD50 (Oral)	LD50 (Dermal)	LC50 (inhalation)
Product			
64742-49-0 Naphtha (petroleum), hydrotreated	>5000mg/kg(Rat)	>2800mg/kg(Rabbit)	>23.3mg/l (Rat)
78-93-3 Methyl ethyl ketone	3300mg/kg(rat)	5000mg/kg(Rabbit)	
106-97-8 Butane, pure			658mg/l(Rat)
64742-49-0 Naphtha (petroleum), hydrotreated light	>5840mg/kg(Rat)	>2920mg/kg(Rabbit)	>25.2mg/l(Rat)
64742-95-6 Solvent naphtha (petroleum), light		>2000mg/kg (Rabbit)	
67-56-1 Methanol	13000mg/kg(Rat)		

Section 12. Ecotoxicological Information

HSNO Classes: 9.1B = Toxic to aquatic life with long lasting effects.

Persistence and degradability	No data available
Bioaccumulation	No data available
Mobility in Soil	No data available
Other adverse effects	Slightly hazardous for water. Do not allow undiluted product to reach ground water, water course or sewage system.

· <i>Aquatic toxicity:</i>	
<i>64742-49-0 Naphtha (petroleum), hydrotreated light</i>	
<i>EL50/48 h</i>	<i>3 mg/l (DAPHNIA MAGNA)</i>
<i>EL50/72 h</i>	<i>10-30 mg/l (SELENASTRUM CAPRICORNUTUM)</i>
<i>LL50/96 h</i>	<i>>13.4 mg/l (SALMO GAIRDNERI / ONCORHYNCHUS MYKISS)</i>
<i>64742-49-0 Naphtha (petroleum), hydrotreated light</i>	
<i>EC50/48 h</i>	<i>10 mg/l (PHAEOPHYTA)</i>
<i>EL50/48 h</i>	<i>3 mg/l (DAPHNIA MAGNA)</i>
<i>EL50/72 h</i>	<i>30-100 mg/l (SELENASTRUM CAPRICORNUTUM)</i>
<i>LL50/96 h</i>	<i>11.4 mg/l (SALMO GAIRDNERI / ONCORHYNCHUS MYKISS)</i>

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 – "Spilled Flammable Liquid from Aerosol" and that the label also has the Flammable Pictogram, and the business name, address, and phone number.

Precautions or methods to avoid: Avoid release to the environment.

Section 14 Transport Information

This product is classified as a Dangerous Good for transport in NZ ; NZS 5433:2012

Road and Rail Transport

UN No: 1950

Product Name: Dinitrol 4941 Aerosol
Date of SDS: 22 June 2018

Prepared by: Technical Compliance Consultants (NZ) Ltd
Tel: 64 9 475 5240 www.techcomp.co.nz

Class-primary 2
Proper Shipping Name: AEROSOLS

Air Transport

UN No: 1950
Class-primary 2
Proper Shipping Name: AEROSOLS

Marine Transport

UN No: 1950
Class-primary 2
Proper Shipping Name: AEROSOLS

Section 15 Regulatory Information

New Zealand:

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

EPA Approval Code: Aerosols (Flammable) – HSR002515

HSNO Classification: 2.1.2A, 6.3B, 6.4A, 6.8B, 6.9B, 6.9N, 9.1B

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	1000L (9.1B)
Emergency Response Plan	1000L (9.1B)
Secondary Containment	1000L (9.1B)
Fire Extinguishers	>3000(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 Nov 2017 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

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

Issue Date: 22 June 2018 Review Date: 23 June 2023