AUTO BODY EQUIPMENT

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product:	**Dinitrol 352**
Product Code:	352
Product Use:	Lubricant
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:	24 August 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 Chronic

Signal Word: **DANGER**

HSNO Classes	Hazard Code	Hazard Statement	GHS Category
2.1.2A	H222	Extremely flammable aerosol.	Flam. Aero. 1
6.9B	H373	May cause damage to organs through prolonged or repeated exposure.	STOT RE 2
9.1C	H412	Harmful to aquatic life with long lasting effects.	Aquatic Chronic 3

Prevention Code	Prevention Statement
P103	Read label before use.
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.
P273	Avoid release to the environment.

Response Code	Response Statement
P314	Get medical advice if you feel unwell.

Storage Code	Storage Statement
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.
Propane liquefied	10-<25	74-98-6
Butane, pure	10-<25	106-97-8
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	5-<10	64742-82-1
1,2,4-Trimethylbenzene	<1	95-63-6
Non Hazardous	To bal	74-98-6

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes — Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice.

If on Skin — Rinse skin with water/shower. If skin irritation occurs: get medical advice/attention.

If Swallowed — Rinse mouth. 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. Seek medical assistance if needed.

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: Not applicable.
Eye: Not applicable.
Chronic: Prolonged or repeated exposure causes damage to the organs.

Section 5. Fire Fighting Measures

Hazard Type	Flammable Aerosol
Hazards from products	Carbon monoxide (CO).
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	Wear full protective gear. Cool endangered receptacles with water spray.

clothing	
HAZCHEM CODE	**2YE**

Section 6. Accidental Release Measures

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

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:

- Read label before use.
- 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, vapours or spray.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10 and foodstuffs.
- Keep container tightly closed. Keep cool.
- Do not seal receptacle gas tight.
- Protect from sunlight and heat. Do not expose to temperatures exceeding 50 °C.
- Do not seal receptacle gas tight.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	**TWA ppm**	**TWA mg/m³**	**STEL ppm**	**STEL mg/m³**
Propane [74-98-6]	Simple asphyxiant – may present an explosion hazard			
Butane [106-97-8]	800	1,900		

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.

Engineering Controls

Ensure there is adequate ventilation available.

Personal Protection Equipment

Eyes	Tightly sealed goggles.
Skin	Wear Neoprene gloves (0,47 mm) with penetration time of >480 min. Do not wear strong material gloves or leather gloves. Wear protective clothing.

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 AX
General	Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols.

Section 9 Physical and Chemical Properties

Form	Aerosol
Colour	Clear
Odour	Characteristic
Odour Threshold	Not available
pH @20^{0}C	Not available
Boiling Point	-44^{0}C
Melting Point	Not available
Freezing Point	Not available
Flash Point	<-20°C (DIN 53213)
Flammability	Not available
Upper and Lower Explosive Limits	1.5 – 10.9% (vol)
Vapour Pressure	4000 hPa @20^{0}C
Density@ 20^{0}C	0.71 g/cm^3 (DIN 51757)
Specific Gravity	Not available
Water Solubility	Not miscible or difficult to mix.
Partition Coefficient:	Not available
Ignition Temperature	210^{0}C
Decomposition Temperature	Not available
Dynatic Viscosity @20^{0}C	Not available
Particle Characteristics	Not available
Solvent content	Organic Solvents: 47.2%
Solids content	Not applicable
VOC(EU)	47.00 % 335.0 g/l

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 ignition sources and heat.
Incompatible Materials	None known.
Hazardous Decomposition Products	Carbon monoxide.

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable.
Dermal	Not applicable.
Inhalation	Not applicable.
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	Cause damage to organs through prolonged or repeated exposure.

Acute Toxicity -

Chemical Name	LD50 (Oral)	LD50 (Dermal)	LC50 (inhalation)
Product			
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (Cas No 64742-82-1)	>5000mg/kg(Rat)	>3000mg/kg(Rabbit)	>2.8mg/l (Rat)
Butane, pure (Cas No 106-97-8)	-	-	658mg/l (Rat) – 4hr

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	Hazardous for water. Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

Do not allow to enter waterways.

Section 13. Disposal Considerations

Disposal Method:
Spent media that has removed toxic chemicals should be examined for specific hazards. Spilled product liquid 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, Ecotoxic “ and that the label also has the Flammable and Ecotoxic Pictogram, and the business name, address, and phone number.

Precautions or methods to avoid: Must not be disposed together with household garbage. 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
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
Marine Pollutant:	No

Section 15 Regulatory Information

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, 6.9A, 9.1C

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 (9.1C)
Emergency Response Plan	1000L (9.1C)
Secondary Containment	1000L (9.1C)
Fire Extinguishers	3000L - 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

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

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