AUTO BODY EQUIPMENT

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product:	**Dinitrol 444 Aerosol**
Product Use:	Paint
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, Toxic) – HSR002517

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
6.1E (oral)	H303	May be harmful if swallowed.	Acute Tox. 5
6.1E (dermal)	H313	May be harmful in contact with skin.	Acute Tox. 5
6.3A	H315	Causes skin irritation.	Skin Irrit. 2
6.4A	H319	Causes serious eye irritation.	Eye Irrit. 2A
6.5B	H317	May cause an allergic skin reaction.	Skin Sens. 1
6.7B	H351	Suspected of causing cancer.	Carc. 2
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
9.1A	H400	Very toxic to aquatic life.	Aquatic Acute 1

9.2C	H423	Harmful to the soil environment.	-
9.3C	H433	Harmful to terrestrial vertebrates.	-

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
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 fume, vapours or spray.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective clothing.
P281	Use personal protective equipment as required.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P362	Take off contaminated clothing and wash before re-use.
P391	Collect spillage.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
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.
P333 + P313	If skin irritation or rash 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.
Xylene, mixed isomers, pure	25-<50	1330-20-7
Propane Liquefied	10-<25	74-98-6
Butane, pure	10-<25	106-97-8
Aluminium powder	5-<10	7429-90-5
Zinc Dust Super Fine	5-<10	7440-66-6
Naphtha (petroleum), hydrotreated heavy	1-<5	64742-48-9
Solvent naphtha (petroleum), light arom.	1-<5	64742-95-6
Ethylbenzene	1-<5	100-41-4
Ethyl methyl ketoxime	<1	96-29-7

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	Take off contaminated clothing and wash before re-use. Immediately wash with water and soap and rinse thoroughly. If skin irritation or rash 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:	Headache, dizziness.
Ingestion:	May be harmful if swallowed.
Inhalation:	Not applicable.
Skin:	May be harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction.
Eye:	Causes eye irritation.
Chronic:	Suspected of causing cancer. 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, sand, extinguishing powder. 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.
- 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 fume, vapours or spray.
- Wash hands thoroughly after handling.
- Use only outdoors or in a well-ventilated area.
- Open and handle receptacle with care.
- Contaminated work clothing should not be allowed out of the workplace.
- 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 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		
Xylene (o-, m-, p-isomers) [1330-20-7]	50	217		
Ethyl benzene [100-41-4]	100	434	125	543

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.

· ***Ingredients with limit values that require monitoring at the workplace:***	
1330-20-7 Xylene, mixed isomers, pure	
WEL	***Short-term value: 441 mg/m³, 100 ppm*** ***Long-term value: 220 mg/m³, 50 ppm*** ***Sk; BMGV***
106-97-8 Butane, pure	
WEL	***Short-term value: 1810 mg/m³, 750 ppm*** ***Long-term value: 1450 mg/m³, 600 ppm*** ***Carc (if more than 0.1% of buta-1.3-diene)***
100-41-4 Ethylbenzene	

WEL	*Short-term value: 552 mg/m³, 125 ppm* *Long-term value: 441 mg/m³, 100 ppm* *Sk*
·	*Ingredients with biological limit values:*
1330-20-7 Xylene, mixed isomers, pure	
BMGV	*650 mmol/mol creatinine* *Medium: urine* *Sampling time: post shift* *Parameter: methyl hippuric acid*

Engineering Controls
Ensure there is adequate ventilation available.

Personal Protection Equipment

Eyes	Tightly sealed goggles with side shields. Avoid wearing contact lenses.
Skin	Wear fluorocarbon rubber (Viton) gloves. Wear protective work 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 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	Silver Grey
Odour	Aromatic
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	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Upper and Lower Explosive Limits	1.0 – 10.9% (vol)
Vapour Pressure @20^{0}C	4000 hPa
Density@ 20^{0}C	0.84 g/cm³ (DIN 51757)
Specific Gravity	Not available
Water Solubility	Not miscible or difficult to mix.
Partition Coefficient:	Not available
Ignition Temperature	365^{0}C
Decomposition Temperature	Not available
Kinematic Viscosity @20^{0}C	Not available
Particle Characteristics	Not available
Solvent content	Organic Solvents: 75.0%
Solids content	25.0% (DIN 53216)
VOC(EU)	632.0 g/L

	75.00%

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Possibility of hazardous reactions	Contact with water releases flammable gases.
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	Carbon monoxide.

Section 11 Toxicological Information

Acute Effects:

Swallowed	May be harmful if swallowed.
Dermal	May be harmful if in contact with skin.
Inhalation	Not applicable.
Eye	Causes serious eye irritation.
Skin	Causes skin irritation. May cause an allergic skin reaction.

Chronic Effects:

Carcinogenicity	Suspected of causing cancer.
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			
1330-20-7 Xylene, mixed isomers, pure	8700mg/kg(Rat)	2000mg/kg (Rabbit)	6350mg/l(Rat)
64742-48-9 Naphtha (petroleum), hydrotreated	>5000mg/kg(rat)	>3000mg/kg(Rabbit)	
106-97-8 Butane, pure			658mg/l(Rat)
100-41-4 Ethylbenzene	3500mg/kg(Rat)	17800mg/kg(Rabbit)	
64742-95-6 Solvent naphtha (petroleum), light		>2000mg/kg (Rabbit)	
96-29-7 2-Butanone oxime	2528mg/kg(Rat)	200-2000,g/kg (Rat)	>10.5mg/l (Rat) (4 hrs) >100mg/l (Fish) (96 hrs)

Section 12. Ecotoxicological Information

HSNO Classes: 9.1A = Very toxic to aquatic life.
9.2C = Harmful to the soil environment.
9.3C =Harmful to terrestrial vertebrates.

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 undiluted product to reach ground water, water course or sewage system.

· **Aquatic toxicity:**
96-29-7 2-Butanone oxime
EC50/48 h 201 mg/l (DAPHNIA MAGNA)
IC50/72 h 11.8 mg/l (ALGAE)

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
Class-primary	2
Sub Class	9
Proper Shipping Name:	AEROSOLS

Air Transport

UN No:	1950
Class-primary	2
Sub Class	9
Proper Shipping Name:	AEROSOLS

Marine Transport

UN No:	1950
Class-primary	2
Sub Class	9
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, Toxic) – HSR002517

HSNO Classification: 2.1.2A, 6.1E(oral, dermal), 6.3A, 6.4A, 6.5B, 6.7B, 6.8B, 6.9B, 6.9N, 9.1A, 9.2C, 9.3C

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	100L (9.1A)
Emergency Response Plan	100L (9.1A)
Secondary Containment	100L (9.1A)
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

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