



SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: **Dinitrol 840 B**
Product Use: Adhesives, sealants, Resin
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: 5 December 2022

Section 2. Hazards Identification

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

EPA Approval No: Surface Coatings and Colourants (subsidiary) – HSR002670

Pictograms:



Corrosive

Signal Word: **DANGER**

| GHS Classification and Category | Hazard Code | Hazard Statement |
|---|-------------|--|
| Skin irritation Cat. 2 | H315 | Causes skin irritation. |
| Serious eye damage Cat. 1 | H318 | Causes serious eye damage. |
| Hazardous to the aquatic environment chronic Cat. 3 | H412 | Harmful to aquatic life with long lasting effects. |

| Prevention Code | Prevention Statement |
|-----------------|--|
| P102 | Keep out of reach of children. |
| P103 | Read label before use. |
| P264 | Wash hands thoroughly after handling. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective clothing as detailed in Section 8. |

| Response Code | Response Statement |
|---------------|--------------------|
|---------------|--------------------|

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|------------------|--|
| P101 | If medical advice is needed, have product container or label at hand. |
| P310 | Immediately call a POISON CENTER or doctor/physician. |
| P362 | Take off contaminated clothing and wash before re-use. |
| 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. |
| P332 + P313 | If skin irritation occurs: Get medical advice/ attention. |

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|---------------------|--------------------------|
| Storage Code | Storage Statement |
| None allocated | |

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

Section 3. Composition / Information on Hazardous Ingredients

| Ingredients | Wt% | CAS NUMBER. |
|------------------------------------|----------|-------------|
| Ethylendiamine, propoxylated | 50 - <55 | 25214-63-5 |
| 4,4'-Methylenebis(cyclohexylamine) | 1 - <5 | 1761-71-3 |
| Vinyltrimethoxysilane | 1 - <5 | 2768-02-7 |

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. Immediately call a POISON CENTER or doctor/physician.
- If on Skin After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.
- If Swallowed Do NOT induce vomiting. 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. Immediately call a POISON CENTER or doctor/physician.
- 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 skin irritation.
Eye: Causes severe eye damage.

Notes to Doctor: Treat symptomatically.

Section 5. Fire Fighting Measures

| | |
|------------------------------|---|
| Hazard Type | Non Flammable |
| Hazards from products | Formation of: Pyrolysis products, toxic |

| | |
|---|---|
| Suitable Extinguishing media | Carbon dioxide (CO ₂), Extinguishing powder, alcohol resistant foam, water spray jet. Do not use full water jet. |
| Precautions for firefighters and special protective clothing | Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit. 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. Evacuate all unnecessary personnel. Avoid contact with skin, eyes and clothes. Special danger of slipping by leaking/spilling product. Provide adequate ventilation.

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not allow to enter into surface water or drains.

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 label before use.
- Wash hands thoroughly after handling.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.
- In case of inadequate ventilation wear respiratory protection.
- Avoid contact with skin and eyes.
- Keep away from food, drink and animal feeding stuffs.
- Protect skin by using skin protective cream.
- Take off contaminated clothing and wash it before reuse.
- Avoid contact with skin and eyes.
- When using do not eat, drink or smoke.
- Protect skin by using skin protective cream.
- Take off contaminated clothing and wash it before reuse.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Keep out of reach of children.
- Store locked up.
- Store in a well-ventilated place. Keep container tightly closed in a cool place.
- Do not store together with: Water, Oxidising agent.
- Keep away from food, drink and animal feeding stuffs.
- Keep the packing dry and well-sealed to prevent contamination and absorption of humidity. storage temperature: <0°C - < 50°C.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

| Substance | TWA | | STEL | |
|-----------|-----|-------------------|------|-------------------|
| | ppm | mg/m ³ | ppm | mg/m ³ |

No ingredients have exposure limits

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

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Date of SDS: 5 December 2022

SDS Prepared by: Technical Compliance Consultants (NZ) Ltd
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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 Values:

| CAS No | Substance | Exposure route | Effect | Value |
|--------------------------|------------------------------------|----------------|----------|------------------------|
| 25214-63-5 | Ethylenediamine, propoxylated | | | |
| Worker DNEL, long-term | | dermal | systemic | 13,9 mg/kg |
| Consumer DNEL, long-term | | inhalation | systemic | 29 mg/m ³ |
| Consumer DNEL, long-term | | dermal | systemic | 8,3 mg/kg bw/day |
| Worker DNEL, long-term | | inhalation | systemic | 98 mg/m ³ |
| Consumer DNEL, long-term | | oral | systemic | 8,3 mg/kg bw/day |
| 1761-71-3 | 4,4'-Methylenebis(cyclohexylamine) | | | |
| Worker DNEL, long-term | | dermal | systemic | 0,1 mg/kg bw/day |
| Worker DNEL, long-term | | inhalation | systemic | 1 mg/m ³ |
| Consumer DNEL, long-term | | inhalation | systemic | 0,21 mg/m ³ |
| Consumer DNEL, long-term | | dermal | systemic | 0,06 mg/kg |
| Consumer DNEL, long-term | | oral | systemic | 0,06 mg/kg |

PNEL Values:

| CAS No | Substance | Environmental compartment | Value |
|------------|------------------------------------|--|--------------|
| 25214-63-5 | Ethylenediamine, propoxylated | | |
| | | Freshwater | 0,085 mg/l |
| | | Marine water | 0,0085 mg/l |
| | | Freshwater sediment | 0,074 mg/kg |
| | | Marine sediment | 0,0074 mg/kg |
| | | Micro-organisms in sewage treatment plants (STP) | 70 mg/kg |
| | | Soil | 0,0162 mg/kg |
| 1761-71-3 | 4,4'-Methylenebis(cyclohexylamine) | | |
| | | Freshwater | 0,08 mg/l |
| | | Marine water | 0,008 mg/l |
| | | Freshwater sediment | 0,39 mg/kg |
| | | Marine sediment | 0,039 mg/kg |
| | | Micro-organisms in sewage treatment plants (STP) | 80 mg/l |
| | | Soil | 0,072 mg/kg |

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). |
| Skin | Tested protective gloves must be worn (EN ISO 374): NBR (Nitrile rubber), Breakthrough time: 480 min. Butyl caoutchouc (butyl rubber), Breakthrough time: 480 min. |

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|--------------------|--|
| | 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. Wear suitable protective clothing. |
| Respiratory | Work in well-ventilated zones or use proper respiratory protection. gas filtering equipment (EN 141)., Filter material/medium: A/P2. |

Section 9 Physical and Chemical Properties

| | |
|---|--|
| Form | Liquid |
| Colour | Various |
| 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 | >150°C |
| Flammability | Non flammable |
| Upper and Lower Explosive Limits | Not applicable |
| Vapour Pressure | Not available |
| Density@ 20°C | 1.08 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 |
| Ignition Temperature | >300°C |
| Decomposition Temperature | Not available |
| Kinematic /Dynamic @23°C | 1000 mPa·s |
| Particle Characteristics | Not available |

Section 10. Stability and Reactivity

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|---|---|
| Stability of Substance | This product is stable under normal conditions. |
| Possibility of hazardous reactions | Reacts with : Oxidising agent |
| Conditions to Avoid | Keep away from heat. |
| Incompatible Materials | Keep away from: Oxidising agent |
| Hazardous Decomposition Products | No data available. |

Section 11 Toxicological Information

Acute Effects:

| | |
|-------------------|---|
| Swallowed | Not applicable. LD50, oral > 2000 mg/kg |
| Dermal | Not applicable. LD50, dermal > 2000 mg/kg |
| Inhalation | Not applicable. LC50, inhalation (vapour) (4 h) > 20 mg/l |
| Eye | Causes severe eye damage. |
| Skin | Causes skin irritation. |

Chronic Effects:

| | |
|------------------------|-----------------|
| Carcinogenicity | Not applicable. |
|------------------------|-----------------|

| | |
|-------------------------------|-----------------|
| Reproductive Toxicity | Not applicable. |
| Germ Cell Mutagenicity | Not applicable. |
| Aspiration | Not applicable. |
| STOT/SE | Not applicable. |
| STOT/RE | Not applicable. |

Acute Toxicity for components:

| CAS No | Chemical name | | | | |
|------------|------------------------------------|---------------|----------|--------|--------|
| | Exposure route | Dose | Species | Source | Method |
| 25214-63-5 | Ethylendiamine, propoxylated | | | | |
| | oral | LD50 mg/kg | > 2000 | Rat | |
| | dermal | LD50 mg/kg | > 2000 | Rat | |
| 1761-71-3 | 4,4'-Methylenebis(cyclohexylamine) | | | | |
| | oral | LD50 mg/kg | 625 | Rat | |
| | dermal | LD50 mg/kg | 2110 | Rabbit | |
| 2768-02-7 | vinyltrimethoxysilane | | | | |
| | oral | LD50 mg/kg | 7130 | Rat | |
| | dermal | LD50 mg/kg | 3260 | Rabbit | |
| | inhalation vapour | ATE | 11 mg/l | | |
| | inhalation dust/mist | ATE | 1,5 mg/l | | |

Section 12. Ecotoxicological Information

Harmful to aquatic life with long lasting effects.

| CAS No | Chemical name | | | | | |
|------------|------------------------------------|---------------|-----------|---------|--------------------------------|--------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 25214-63-5 | Ethylendiamine, propoxylated | | | | | |
| | Acute fish toxicity | LC50 mg/l | 4600 | 96 h | Leuciscus idus (golden orfe) | |
| | Acute algae toxicity | ErC50 mg/l | 150,67 | 72 h | Desmodesmus subspicatus | |
| | Acute crustacea toxicity | EC50 mg/l | > 100 | 48 h | Daphnia magna (Big water flea) | |
| 1761-71-3 | 4,4'-Methylenebis(cyclohexylamine) | | | | | |
| | Acute fish toxicity | LC50 mg/l | 46-100 | 96 h | Leuciscus idus (golden orfe) | |
| | Acute algae toxicity | ErC50 mg/l | 140-200 | 72 h | alga | |
| | Acute crustacea toxicity | EC50 mg/l | 6,84 | 48 h | Daphnia magna (Big water flea) | |

Persistence and Degradability:

The product has not been tested.

Bioaccumulative Potential:

The product has not been tested.

Mobility in Soil:

The product has not been tested.

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Section 13. Disposal Considerations

Disposal Method:

Triple rinse and dispose as per Local Regulations.

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

Section 14 Transport Information

This product is NOT classified as a Dangerous Good for transport in NZ ; NZS 5433:2020

Section 15 Regulatory Information

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

EPA Approval Code: Surface Coatings and Colourants (Subsidiary) – HSR002670

| HSW (HS) Regulations 2017 and EPA Notices | Trigger Quantity |
|---|------------------------------------|
| Certified Handler | Not required |
| Location Certificate | Not required |
| Tracking Trigger Quantities | Not required |
| Signage Trigger Quantities | 1000L |
| Emergency Response Plan | 1000L |
| Secondary Containment | 1000L |
| 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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