



MATERIAL SAFETY DATA SHEET

SDS 305

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1. Product and Company Identification

- 1.1 **PRODUCT NAME:** CHEVALINE DEXX WEARCOAT
- 1.2 **USE OF PRODUCT** Coating to enhance non-skid properties to decks as part of the Dexe Waterproof Membrane System
- 1.3 **SUPPLIER:** Equus Industries Ltd
Sheffield Street
Riverlands Industrial Estate
Blenheim, Marlborough, New Zealand
Telephone: +64 3 578 0214
Email: admin@equus.co.nz
- 1.4 **EMERGENCY CONTACT:** **National Poison Centre**
Telephone: 0800 764 766

Information about Safety Data Sheet: Telephone: +64 3 578 0214 8:00am – 6:00pm Mon – Fri

- 1.5 **Date of Preparation:** 22 September 2021

2. Hazards Identification

- 2.1 **Statement of Hazardous Nature:**
Classified as hazardous according to New Zealand Hazardous Substances (Minimum degrees of hazard) Regulations 2017.
- 2.2 **DG Status:**
Not classified as Dangerous Good under NZ 5433:2012 Transport of Dangerous Goods on Land
- 2.3 **Hazard Classification:**
- 2.4

Class and GHS Category		Hazard Statement
Reproductive Toxicity	Cat 2	Suspected of damaging fertility or the unborn child
Aquatic Toxicity (Acute)	Cat 1	Very toxic to aquatic life
- 2.5 **Signal Word:** Warning
- 2.6 **Prevention Statements:**
P103 Read instructions before use.
P202 Do not handle until all safety precautions have been read and understood
P273 Avoid release into the environment (sewers, drains etc).
P281 Use personal protective equipment as required
- 2.7 **Response Statements:**
P308 + P313 IF exposed or concerned: Get medical advice/ attention
P391 Collect spillage
- 2.8 **Storage Statement:**
P405 Store locked up
- 2.9 **Disposal Statement**
P501 Dispose of contents / container to authorised hazardous or special waste collection point in accordance with any local regulations.

3. Composition/Information on Ingredients**3.1 Hazardous Components:**

CAS NO.	COMPONENT	CONCENTRATION (% weight)	CLASSIFICATION		
34590-94-8	Dipropylene glycol monomethyl ether	0.5	Flam., 4	H227	Combustible liquid.
25265-77-4	2,2,4-trimethyl-1,3-pentanediol monoisobutyrate	0.38	Repro. Tox 2	H361	Suspected of damaging fertility or the unborn child
1336-21-6	Ammonium Hydroxide	0.14	Acute Tox (inhale) 4 Acute Tox (oral) 4 Skin Corr., 1B Eye Dam., 1 Aquatic Acute., 1	H332 H302 H314 H318 H400	Harmful if inhaled Harmful if swallowed Causes severe skin burns and eye damage. Causes serious eye damage Very toxic to aquatic life
50-00-0	Formaldehyde	0.04	Flam Liq., 3 Acute Tox, (oral) 3 Acute Tox., (dermal) 3 Acute Tox., (inhale-vapour)3 Skin Corr., 1B Eye Dam., 1 Skin Sens., 1 Mutagenicity., 2 Carcinogenicity., 1A STOT SE., 1 STOT RE., 1	H226 H301 H311 H331 H314 H318 H317 H341 H350 H370 H372	Flammable liquid and vapour Toxic if swallowed Toxic in contact with skin Toxic if inhaled Causes severe skin burns and eye damage. Causes serious eye damage May cause an allergic skin reaction Suspected of causing genetic defects May cause cancer Causes damage to organs Causes damage to organs through prolonged or repeated exposure
26530-20-1	2-octyl-24-isothiasol-3-one	0.02	Acute Tox., (oral) 3 Acute Tox., (inhale) 3 Skin Corr., 1B Eye Dam., 1 Skin Sens., 1 Aquatic Acute., 1 Aquatic Chronic., 1	H301 H331 H314 H318 H317 H400 H410	Toxic if swallowed. Toxic if inhaled Causes severe skin burns and eye damage Causes serious eye damage May cause an allergic skin reaction Very toxic to aquatic life Very toxic to aquatic life with long lasting effects.
-	Mixed Biocide	0.06	Skin Irrit., 2 Eye Irrit., 2 Skin Sens., 1 Mutagenicity., 1B Carcinogenicity., 2 Repro Tox., 1B STOT RE., 2 Aquatic Acute., 1 Aquatic Chronic., 1	H315 H319 H317 H340 H351 H360 H373 H400 H410	Causes skin irritation Causes serious eye irritation May cause an allergic skin reaction May cause genetic defects Suspected of causing cancer May damage fertility or the unborn child May cause damage to organs through prolonged or repeated exposure Very toxic to aquatic life Very toxic to aquatic life with long lasting effects

4. First Aid Measures**4.1 After Inhalation:**

Remove person to fresh air.

4.2 After Skin Contact:

Wash with plenty of soap and water as a precaution. If skin irritation develops, consult a doctor.

4.3 After Eye Contact:

Immediately rinse with plenty of water for at least 10 minutes, while holding eyelid open. Remove contact lenses, if present and easy to do. If eye irritation persists, consult a doctor.

4.4 After Ingestion:

Drink 1 or 2 glasses of water. Consult a doctor if necessary. Never give anything by mouth to an unconscious person.

5. Fire Fighting Measures

5.1 Suitable Extinguishing Media:

Use extinguishing media appropriate for surrounding fire.

5.2 Protective Equipment:

Wear self contained breathing apparatus and protective suit.

5.3 Specific Hazards:

Material can splatter above 100°C. Dried product can burn.

5.4 Combustion Products:

Carbon monoxide, carbon dioxide, toxic fumes and smoke. May yield acrylic monomers.

6. Accidental Release Measures

6.1 Preliminary Action and Precautions:

6.1.1 Use personal protective equipment.

6.1.2 Keep people away from and upwind of spill/leak.

6.1.3 Material can create slippery conditions.

6.1.4 Contain spills immediately with inert materials (e.g. sand, earth etc.)

6.1.5 Transfer liquids and solid diking material to suitable containers for recovery or disposal.

6.1.6 Keep spills and cleaning run off from entering sewers, drains and open bodies of water.

7. Handling and Storage

7.1 Handling:

7.1.1 Avoid contact with eyes, skin and clothing.

7.1.2 Wash hands thoroughly after handling.

7.1.3 Keep containers tightly closed when not in use.

7.1.4 Do not breathe vapours, mist or gas.

7.2 Storage:

7.2.1 Store in a cool well-ventilated space.

7.2.2 Keep containers tightly closed at all times.

8. Exposure Controls and Personal Protection Equipment

8.1 Exposure Limits:

CHEMICAL NAME	CAS NUMBER	REGULATION	LIMIT	
			ppm	mg/m ³
Ammonium hydroxide	1336-21-6	WES/TWA	25	17
		WES/STEL	35	24
Formaldehyde	50-00-0	WES	0.5 (8hr shift)	
			0.33 (12hr Shift)	
			Ceiling 1	
Dipropylene glycol mono methyl ether (skin)	34590-94-8	WES/TWA	100	606
		WES/STEL	150	909

8.2 Exposure Controls:

8.2.1 Exposure Controls in the Workplace

Use only in well ventilated areas. Provide maximum ventilation in enclosed area. Use local exhaust when the general, ventilation is inadequate.

8.2.2 Personal Protection Equipment:

Respiratory Protection

If engineering controls are not effective in controlling airborne exposure, then an approved respirator with are placeable dust/particulate filter should be used. Reference should be made to Australia/New Zealand Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices: and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances

Eye Protection

Safety glasses with side shields or chemical goggles should be worn. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform with Australia/New Zealand Standard AS/NZS 1337 – Eye Protectors for Industrial Applications.

Hand Protection

Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e., methods of handling or according to risk assessments undertaken. References should be made to AS/NZS 2161.1: Occupational protective gloves – Selection, use and maintenance.

Body Protection

Suitable protective workwear, e.g., cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled. Industrial clothing should conform to the specifications detailed in AS/NZS 2919: Industrial Clothing.

9. Physical and Chemical Properties

9.1 General Information:

Appearance	Liquid
Colour	Various colours
Odour	Slight ammoniacal/acrylic
Odour Threshold	Not established
PH	9.0 -10.0
Melting point/ freezing point	<0°C
Initial Boiling Point/ Range	>100°C
Flash Point	Not established
Flammability (solid,gas)	Not applicable
Upper/lower flammability or explosive limits	Not applicable
Vapour pressure	Not established
Vapour density	Not established
Relative density	1.26
Water Solubility (ies)	Dilutable/partially soluble
Water solubility of ingredients	Dipropylene glycol monomethyl ether 100% @ 25°C

Partition coefficient:n-octanol/water	2,2,4-trimethyl-1,3-pentanediol monoisobutyrate 0.5-3.79g/l @25°C
Auto-ignition temperature	N-methyl-2-pyrrolidone 1g/l@25°C Not established
Decomposition temperature	Not applicable
Viscosity	Not established Brookfield 50rpm, 11,200-16,000 cps @23°C

10. Stability and Reaction

10.1 General Information:

This product is stable, and no hazardous reactions are known.

10.2 Conditions to Avoid:

There are no known conditions which should be avoided.

10.3 Material to Avoid:

There are no known materials which are incompatible with this product.

10.4 Hazardous Decomposition Products:

None expected when material properly handled and stored. For thermal decomposition see Section 5.

11. Toxicological Information

Acute Toxicity

Dexx Wearcoat: No data available

– Dipropylene glycol monomethyl ether. CAS. 34590-94-8

Acute oral toxicity: LD50 Rat >5,000 mg/kg

Acute dermal toxicity: LD50 Rabbit 9,510 mg/kg

Acute inhalation toxicity: LC50 Rat 7hours, vapour 3.35mg/l

No deaths occurred at this concentration

– 2,2,4 – trimethyl -1,3 – pentanediol monoisobutyrate. CAS. 25265-77-4

Acute oral toxicity: No data available

Acute dermal toxicity: No data available

Acute inhalation toxicity: No data available

– Ammonia Hydroxide. CAS 1336-21-6

Acute oral toxicity: LD50 Rat 350mg/kg

Acute Inhalation toxicity: LD50 Rat 5131mg/m³ 7338ppm to 11,592mg/m³ (16,600ppm)
60 minutes exposure

– Formaldehyde. CAS. 50-00-0

Acute toxicity oral, dermal, inhalation: No data available

– 2 – octyl -2H – isothiazole – 3 – one

Acute oral toxicity: LD50 Rat 279mg/kg

Acute dermal toxicity: LD50 Rat >2000mg/kg

Acute inhalation toxicity: LC50 Rat 4 hours(dusts and mists) 0.6mg/l

– Mixed Biocide

Acute oral toxicity: LD50 Rat >73,300mg/kg

Acute dermal toxicity: LD50 Rabbit >2,000mg/kg

– Skin corrosion / irritation:

Not primarily irritating on the skin. May have a degreasing effect and repeated exposure. May cause skin dryness and lead to cracking.

– Serious eye damage / eye irritation:

Slightly irritation effect is possible.

- **Respiratory or skin sensitisation:**
Based on available data, the classification criteria are not met.
- **Gem cell mutagenicity:**
Based on available data, the classification criteria are not met.
- **Carcinogenicity:**
Based on available data, the classification criteria are not met.
- **Reproductive toxicity – Assessment:**
Some evidence that there could be some effects on development, based on animal experiments with 2,2,4 – trimethyl-1, 3-pentenediol monoisobutyrate.
- **Specific target organ toxicity - Single exposure:**
Based on available data, the classification criteria are not met.
- **Specific target organ toxicity – Repeated exposure:**
Based on available data, the classification criteria are not met.
- **Aspiration hazard:**
Based on available data, the classification criteria are not met.
- **Note**
Ingestion may cause gastrointestinal discomfort and inhalation may cause slight irritation to the respiratory tract.

12. Ecological Information

12.1 Toxicity:

Dexx Wearcoat: no data available

- **Dipropylene glycol monomethyl ether:**
 - To fish
LC50, Poecilia reticulata (guppy) static test, 96hr, >1000mg/l
 - To aquatic invertebrates
LC50, Daphnia magna (water flea) static test, 48hr, 1919mg/l
 - To algae / aquatic plants
ErC50, Pseudokirchneriella subcapitata (green algae) static test, 96hr biomass, >969mg/l
- **2,2,4 – trimethyl -1,3 – pentenediol monoisobutyrate:**
 - LC50: Fish, 96hr, 9.552mg/l
 - EC50: Crustacea, 48hr, >19mg/l
 - EC50: Algae or other aquatic plants, 96hr, 0.789mg/l
 - NOEC: Algae or other aquatic plants, 72hrs, 2mg/l
- **Ammonium hydroxide:**
 - LC50: Fish, 96hr, 0.09-3.51mg/l
 - NOEC: Fish, 0.025-1.2mg/l
 - LC50: Invertebrates, 48hr, 2.94mg/l
 - NOEC: Invertebrates, 0.163-0.42mg/l
 - LOEC: Terrestrial plants, 3-250ppm
 - LOEC: Aquatic plants, 0.5-500mg/l
- **Formaldehyde:**
No data available

- 2 – octyl -2H – isothiazole – 3 – one
EC50: Desmodesmus subspicatus, 72hr, 0.084mg/l
NOEC: Algae, 72hr, 0.004mg/l
EC50: Daphnia, 48hr, 0.42mg/l
NOEC, Daphnia, 21d, 0.002 mg/l
LC50, Rainbow trout, 96hr, 0.036mg/l
NOEC, Rainbow trout, 28d, 0.022mg/l

- Mixed biocide:
No data available for mixture

12.2 Persistence and degradability:

- Dipropylene glycol monomethyl ether:
Passes OECD tests for ready biodegradability.
- 2,2,4 – trimethyl -1,3 – pentanediol monoisobutyrate:
Low persistence, water / soil / air
- Ammonium hydroxide:
Biodegradable in soil. Ozonation in the air, Soluble in water
- Formaldehyde:
No data available
- 2 – octyl -2H – isothiazole – 3 – one:
Rapidly degradable, Biodegradable / eliminable in activated sludge unit
- Mixed biocide:
Contains ingredients that are not rapidly degradable in water and only moderately eliminable in wastewater plants.

12.3 Bioaccumulative Potential:

- Dipropylene glycol monomethyl ether:
Low (Log Pow <3)
- 2,2,4 – trimethyl -1,3 – pentanediol monoisobutyrate:
Low (Log Kow = 2.9966)
- Ammonium hydroxide:
Not Applicable
- Formaldehyde:
No data available
- 2 – octyl -2H – isothiazole – 3 – one:
Low (Log Kow = 2.92)
- Mixed biocide
Low (Log Kow <2.92)

12.4 Mobility in Soil:

No data available

12.5 Other adverse effects:

Additional ecological information: Discharge into the environment must be avoided.

13. Disposal Consideration

13.1 Material:

Recycle or dispose of according to regulation by incineration in a special waste incinerator or landfill at a permitted facility in accordance with local/national regulations.

14. Transport Information

- 14.1 Land Transport:**
Not regulated under NZS 5433 for land transport.
- 14.2 Sea Transport: (IMO/IMDG):** Not regulated.
- 14.3 Air Transport: (IATA/ICAO):** Not regulated.

15. Regulatory Information

- 15.1 HSNO Approval:**
Approved Code: HSR002670
HSNO Group Standard: Surface Coatings and colourants (Subsidiary Hazard)
- 15.2 HSNO Controls:**
Approved Handler: Not required.

16. Other Information

- 16.1 Relevant Hazard Phrases:**
H361 Suspected of damaging fertility or the unborn child
H400 Very toxic to aquatic life.
- 16.2 Abbreviations/Terminology:**
HSNO Hazardous substances and New Organisms Act
CAS Chemical Abstract Service
WES Workplace Exposure Standard (Worksafe NZ)
TWA Time weighted average exposure level designed to protect from the effects of long-term exposure.
STEL Short-term Exposure Level (15 minutes)
VOC Volatile Organic Compound
- 16.3 Issue Information:**
Date of Preparation: 22 September 2021
Reasons: Update and format change (GHS)
Replaces: 16 July 2015
- 16.4** The information contained in this Data Sheet relates only to the specific material identified. Equus Industries Ltd believes the information to be accurate and reliable as at the date of this Data Sheet. No Warranty, Guarantee or representation is expressed or implied by the Company as to the absolute correctness or completeness of any representation contained in this Data and assumes no legal responsibility in connection therewith. It can not be assumed that all acceptable safety measures are contained in this Data Sheet, or that additional measures may not be required under particular or exceptional circumstances or conditions.