



MATERIAL SAFETY DATA SHEET

SDS 133

PAGE 1 OF 11

1. Product and Company Identification

- 1.1 PRODUCT NAME:** CHEVALINE SUPERFLUSH
- 1.2 USE OF PRODUCT** Waterborne, elastomeric, surface filling flushing paste
- 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:** 24 January 2022

2. Hazards Identification

- 2.1 Statement of Hazardous Nature:**
Classified as hazardous according to New Zealand Hazardous Substances (Minimum degrees of hazard) Regulations 2020.
- 2.2 DG Status:**
Not classified as Dangerous Good under NZ 5433:2012 Transport of Dangerous Goods on Land
- 2.3 Hazard Classification:**
- | Class and GHS Category | | Hazard Statement |
|--------------------------|-------|---|
| Acute Toxicity (oral) | Cat 5 | May be harmful if swallowed |
| Aquatic Toxicity (Acute) | Cat 3 | Harmful to aquatic life with long lasting effects |
- 2.5 Signal Word: Warning**
- 2.6 Prevention Statements:**
P273 Avoid release into the environment (sewers, drains etc).
- 2.7 Response Statements:**
P312 Call a Poison Centre or doctor/physician if you feel unwell
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	0.3	Flam., 4	H227	Combustible liquid.
25265-77-4	2,2,4-trimethyl-1,3-pentanediol monoisobutyrate	0.2	Acute toxicity (oral) 5 Aquatic toxicity (chronic) 3	H303 H412	May be harmful if swallowed. Harmful to aquatic life with long lasting effects.
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
84133-50-6	Alcohols, c12-c14-secondary ethoxylated	0.01	Acute Tox, (oral) 4 Eye Dam., 1 Aquatic Acute 2	H302 H318 H401	Harmful if swallowed. Toxic if inhaled Toxic to aquatic life.
8649-55-8	Ammonium nonylphenoxy polyethoxy sulphate, branched	<0.55	No information available	-	-
-	Mixed Biocide	0.095	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
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
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9.1 General Information:

Appearance	Paste
Colour	Various colours
Odour	Slight ammoniacal/acrylic
Odour Threshold	Not established
PH	9.0
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	1.5
Water Solubility (ies)	Dilutable/partially soluble
Water solubility of ingredients	2,2,4-trimethyl-1,3-pentanediol monoisobutyrate 0.5-3.79g/l @25°C
Partition coefficient:n-octanol/water	Not established
Auto-ignition temperature	Not applicable
Decomposition temperature	Not established
Viscosity	Brookfield 50rpm, 63,000-76,000 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

11.1 *Toxicological information appears in this section when such data is available.*

Acute toxicity

Acute oral toxicity	}	Product test data not available. Refer to component data.
Acute dermal toxicity	}	
Acute inhalation toxicity	}	

Skin corrosion/irritation: Product test data not available. Refer to component data.

Serious eye damage/eye irritation: Product test data not available. Refer to component data.

Sensitization: Product test data not available. Refer to component data.

Specific Target Organ Systemic Toxicity: Product test data not available. Refer to component data.
(Single Exposure)

Specific Target Organ Systemic Toxicity: Product test data not available. Refer to component data.
(Repeated Exposure)

Carcinogenicity: Product test data not available. Refer to component data.

Teratogenicity: Product test data not available. Refer to component data.

Reproductive toxicity: Product test data not available. Refer to component data.

Mutagenicity: Product test data not available. Refer to component data.

Aspiration Hazard: Product test data not available. Refer to component data.

Additional information:

No data are available for this material. The information shown is based on profiles of compositionally similar materials.

Dipropylene glycol monomethyl ether.

- **Acute Toxicity**

Acute oral toxicity:	LD50 Rat	>5,000 mg/kg
Acute dermal toxicity:	LD50 Rabbit	9,510 mg/kg
Acute inhalation toxicity:	LC50 Rat	55-60 mg/l (4 hours)

- **Aspiration hazard:**

No data available

- **Respiratory irritation**

No data available

- **Skin corrosion / irritation:**

Rabbit – no skin irritation.

- **Serious eye damage / eye irritation:**

In vitro study – no eye irritation (1 hr).

- **Respiratory or skin sensitisation:**

In vivo assay – human - negative

- **Gen cell mutagenicity:**

In vitro chromosome aberration and gene mutation tests - negative

- **Carcinogenicity:**

No significant product $\geq 0.1\%$ in this product is identified as a possible, probable or confirmed human carcinogen by IARC

- **Reproductive toxicity – Assessment:**
No data available
- **Specific target organ toxicity - Single exposure:**
No data available
- **Specific target organ toxicity – Repeated exposure:**
No data available
- **Narcotic effects**
No data available

2,2,4-trimethyl-1,3-pentanediol diisobutyrate

- **Acute Toxicity**

Oral	LD50 Rat	3200mg/kg
Dermal	LD50 Rat	>15,200mg/kg
Inhalation	LC50 Rat	>3.55mg/l (6 hours)
- **Aspiration hazard:**
No data available
- **Respiratory irritation**
No data available
- **Skin corrosion / irritation:**
No data available.
- **Serious eye damage / eye irritation:**
No data available
- **Respiratory or skin sensitisation:**
No data available
- **Gem cell mutagenicity:**
No data available
- **Carcinogenicity:**
No data available
- **Reproductive toxicity – Assessment:**
No data available
- **Specific target organ toxicity - Single exposure:**
No data available
- **Specific target organ toxicity – Repeated exposure:**
No data available
- **Narcotic effects**
No data available

Ammonium Hydroxide:

- **Acute toxicity**
Acute oral toxicity
Oral LD50 (Rat): 350mg/kg
Inhalation LD50 (Rat) 5131mg/m³(7338ppm) to 11,592mg/m³
(16,600ppm) 60minute exposure
- **Aspiration Hazard:**
Aspiration into the lungs may occur during ingestion or vomiting, causing tissue damage or lung injury.

- **Respiratory irritation:**
No data available
- **Skin corrosion/irritation:**
No data available.
- **Serious eye damage/eye irritation:**
No data available.
- **Respiratory or skin sensitisation:**
No data available.
- **Germ cell mutagenicity:**
In vitro and animal toxicity studies were negative
- **Carcinogenicity:**
Does not cause cancer in laboratory animals.
- **Reproductive toxicity:**
No data available.
- **Specific Target Organ Toxicity:**
(Single Exposure)
Evaluation of available data suggests that this material is not a STOT-SE toxicant.
- **Specific Target Organ Toxicity:**
(Repeated Exposure)
No data available.
- **Narcotics effects:**
No data available

Alcohols, C₁₂ – C₁₄ – secondary, ethoxylated

- **Acute Toxicity**

Oral	LD50 Rat	1800mg/kg
Dermal	LD50 Rabbit	>2,000mg/kg
- **Aspiration Hazard:**
No data available
- **Respiratory irritation:**
No data available
- **Skin corrosion/irritation:**
No data available.
- **Serious eye damage/eye irritation:**
No data available.
- **Respiratory or skin sensitisation:**
No data available.
- **Germ cell mutagenicity:**
No data available
- **Carcinogenicity:**
No significant ingredient is classified as carcinogen by SWA, MTP or IARC
- **Reproductive toxicity:**
No data available.

- **Specific Target Organ Toxicity - Single Exposure**
No data available
- **Specific Target Organ Toxicity – Repeated Exposure**
No data available.
- **Narcotics effects:**
No data available

Ammonium nonylphenoxy polyphenoxy sulphate, branched

- **Acute Toxicity**
No data available
- **Aspiration Hazard:**
No data available
- **Respiratory irritation:**
No data available
- **Skin corrosion/irritation:**
No data available.
- **Serious eye damage/eye irritation:**
No data available.
- **Respiratory or skin sensitisation:**
No data available.
- **Germ cell mutagenicity:**
No data available
- **Carcinogenicity:**
No data available
- **Reproductive toxicity:**
No data available.
- **Specific Target Organ Toxicity**
(Single Exposure)
No data available
- **Specific Target Organ Toxicity**
(Repeated Exposure)
No data available.
- **Narcotics effects:**
No data available

Mixed Biocide

- **Acute Toxicity**
Oral LD50 Rat >3,300mg/kg
Dermal LD50 Rabbit >2,000mg/kg
- **Aspiration Hazard:**
Classification criteria are not met based on available data.
- **Respiratory irritation:**
No data available
- **Skin corrosion/irritation:**
Causes skin irritation

- **Serious eye damage/eye irritation:**
Causes serious eye irritation
- **Respiratory or skin sensitisation:**
May cause allergic skin reaction.
- **Germ cell mutagenicity:**
May cause genetic defects.
- **Carcinogenicity:**
Suspected of causing cancer
- **Reproductive toxicity:**
May damage fertility may damage the unborn child.
- **Specific Target Organ Toxicity - Single Exposure**
Classification criteria are not met based on available data.
- **Specific Target Organ Toxicity – Repeated Exposure**
May cause damage to organs through prolonged or repeated exposure.
- **Narcotics effects:**
No data available

12. Ecological Information

12.1 Toxicity:

Chevaline Superflush: 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 – pentanediol 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
- **Alcohol C₁₂ – C₁₄ – secondary ethoxylated:**
LC50: Fish (Oryzias lapites) 5.1mg/l
Aquatic invertebrates (Daphnia) No data available
Algae/aquatic plants (algae) No data available
- **Ammonium nonylphenoxy polyphenoxy sulphate, branched**
No data available

- 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
- Alcohol C₁₂ – C₁₄ – secondary ethoxylated:
No data available
- Ammonium nonylphenoxy polyphenoxy sulphate, branched:
No data available
- 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
- Alcohol C₁₂ – C₁₄ – secondary ethoxylated:
No data available
- Ammonium nonylphenoxy polyphenoxy sulphate, branched:
No data available
- 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:**
 H303 May be harmful if swallowed
 H412 Harmful to aquatic life with long lasting effects.
- 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: 24 January 2022
 Reasons: Update and format change (GHS)
 Replaces: 4 August 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.