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## MATERIAL SAFETY DATA SHEET

MSDS 177

PAGE 1 OF 7

### 1. Product and Company Identification

- 1.1 PRODUCT NAME:** CHEVALINE CLEARCURE
- 1.2 USE OF PRODUCT** High performance clear topcoat for walls to enhance wearing characteristics and provide graffiti protection, and for floors, in interior and exterior situations.
- 1.3 SUPPLIER:** Equus Industries Ltd  
Sheffield Street  
Riverlands Industrial Estate  
Blenheim, Marlborough, New Zealand  
Telephone: +64 3 578 0214  
Fax: +64 3 578 0919
- 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

### 2. Hazards Identification

- 2.1 Classification:**  
Dangerous Goods – classification according to New Zealand Dangerous Goods Code.
- 2.2 Risk/Safety Phrases:**  
R10,37,43,66,67,  
S24,37,51

The full text of each R & S phrases are listed in Section 16.

### 3. Composition/Information on Ingredients

- 3.1 Chemical Characterization (Preparation):**  
This product is a preparation.



### 3.2 Hazardous Ingredients:

CAS NO.	COMPONENT	CONCENTRATION %	CLASSIFICATION
-	Aliphatic polyisocyanate prepolymer	40-80%	R10/37/43/66/67
108-65-6	1-methoxy-2-propanol acetate	<10.0%	R10/36
1330-20-7	Xylene	<10.0%	R10/20-21/38
122-51-0	Triethyl orthoformate	<1.0%	R10

3.3 Only ingredients, additive and impurities which are classified and contribute to the classification of the product are included in this section.

## 4. First Aid Measures

### 4.1 After Inhalation:

In case of irritation of the respiratory tract, consult a doctor.

### 4.2 After Skin Contact:

Wipe off mechanically and wash afflicted areas thoroughly with soap and plenty of water.

### 4.3 After Eye Contact:

Hold eyes open and rinse with preferably lukewarm water for a sufficiently long period of time (at least 10 minutes) and seek medical attention.

### 4.4 After Ingestion:

Do not induce vomiting. Seek medical attention.

### 4.5 Advice to Doctor:

Symptoms and findings:

#### 4.5.1 Oral:

Gastrointestinal discomfort, nausea, vomiting, lethargy or diarrhea. Treatment should be directed at the control of symptoms and the clinical condition of the patient.

#### 4.5.2 Inhalation:

Prolonged over exposure to either vapour or mist can cause coughing, shortness of breath, dizziness and drunkenness.

## 5. Fire Fighting Measures

### 5.1 Suitable Extinguishing Media:

Use carbon dioxide, dry chemical powder or foam.

### 5.2 Protective Equipment:

Suitable self contained breathing apparatus and wear full body protective clothing.

### 5.3 Specific Hazards:

Keep away from heat and flames.



**5.4 Combustion Products:**

Carbon monoxide, carbon dioxide, nitrogen oxide, isocyanate vapour, and traces of hydrogen cyanide are possible.

**5.5 Precautions in Connection with Fire:**

Firemen must wear self contained breathing apparatus.

<b>6. Accidental Release Measures</b>
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**6.1 Preliminary Action and Precautions:**

**6.1.1** Extinguish or remove all sources of ignition.

**6.1.2** Wear appropriate protective equipment to protect eyes, skin and to avoid inhalation of gases, vapours or aerosols.

**6.1.3** Clear area of all unprotected personnel.

**6.1.4** If safe to do so, shut off sources of leak.

**6.1.5** Avoid spill/leak from entering sewers, storm water drains and open bodies of water.

**6.1.6** Recover free liquid, then apply wet, absorbent material (sand, earth, sawdust, etc.) to spill area.

**6.1.7** After approx 1 hour, place spent absorbent into suitable properly labelled container. Do not seal (evolution of carbon dioxide).

**6.1.8** Store away from heat source, sparks and naked flames in a damp, well ventilated place for several days before disposal.

<b>7. Handling and Storage</b>
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**7.1 Handling:**

**7.1.1** Ensure adequate ventilation at all times.

**7.1.2** Avoid contact with eyes, skin and clothing.

**7.1.3** Avoid inhaling vapours or mist.

**7.1.4** Wash hands thoroughly after handling. Especially before eating, drinking, smoking or using the toilet.

**7.1.5** Use only non-sparking tools.

**7.1.6** Handle empty container with care. Flammable/combustible residue may remain after emptying.

**7.1.7** Use adequate personal protective equipment and observe precautions pertaining to confined space entry.



## 7.2 Storage:

- 7.2.1 Store only in tightly closed containers.
- 7.2.2 Store away from heat, sparks, open flames.
- 7.2.3 Store in a cool, well ventilated space.

## 8. Exposure Controls and Personal Protection Equipment

### 8.1 Exposure Limits:

Xylene	Cas – 1330-20-7	TLV/TWA (ACGIH): 100ppm (434mg/m <sup>3</sup> ) STEL (ACGIH): 150ppm (651mg/m <sup>3</sup> )
1-Methoxy-2-propanol acetate	Cas – 108-65-6	TLV/TWA (ACGIH): 50ppm STEL (ACGIH): 75ppm
Solvent naphtha	Cas – 64742-95-6	TLV/TWA (ACGIH): 20ppm (100mg/m <sup>3</sup> ) STEL (ACGIH): 50ppm (250mg/m <sup>3</sup> )

### 8.2 Exposure Controls:

#### 8.2.1 Exposure Controls in the Work Place:

Local exhaust and general ventilation must be adequate to meet exposure limit(s).

#### 8.2.2 Personal Protection Equipment

Respiratory Protection – Required in insufficiently ventilated areas and during spraying. An air fed mask, or for short periods of use, a combination of charcoal and particulate filter are recommended.

Hand Protection – Use PVC, neoprene or nitril-rubber gloves is required.

Eye Protection – Use protective goggles and face shield if necessary.

#### 8.2.3 Additional Remarks:

In case of hypersensitivity of the respiratory tract (e.g. asthmatics and those who suffer from chronic bronchitis) it is inadvisable to work with the product.

## 9. Physical and Chemical Properties

### 9.1 General Information:

Physical State/Form	Liquid
Colour	Clear
Odour	Hydrocarbon/acetate solvent
Flash Point	32°C (closed cup)
Water Solubility/Miscibility	Negligible.
Specific Gravity	1.04
VOC	465 g/l



## 10. Stability and Reaction

### 10.1 General Information:

This material is stable when properly handled and stored. No hazardous reactions are known.

### 10.2 Conditions to Avoid:

Open flames, sparks and heat.

### 10.3 Material to Avoid:

Exothermic reaction with amines and alcohols. Reacts slowly with water forming carbon dioxide.

### 10.4 Hazardous Decomposition Products:

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

## 11. Toxicological Information

### 11.1 General Information:

No specific toxicity data is available for this product

### 11.2 Skin Contact:

No significant signs or symptoms indicative of any health hazard are expected to occur as a result of skin contact.

### 11.3 Eye Contact:

Moderate reddening and slight swelling.

### 11.4 Ingestion:

May cause gastrointestinal discomfort. Symptoms may include nausea, vomiting, lethargy or diarrhea.

### 11.5 Inhalation:

Over exposure, especially during spraying without the necessary precautions, entails the risk of concentration dependent irritating effects on the respiratory tract. Symptoms may include difficulty breathing, coughing, and asthma. Hypersensitive persons may suffer from these effects at low concentrations.

### 11.6 Chronic Effects:

Prolonged exposure may have skin, tanning and irritating effects. The aromatic hydrocarbons can irritate the skin and mucous membrane and are narcotic if inhaled at high concentrations.

## 12. Ecological Information

### 12.1 Environment Protection:

Prevent from entering sewers, drains and waterways.

### 12.2 Ecotoxicity:

Data not available.



**12.3 Persistence and degradability:**

Data not available.

**12.4 Bioaccumulative Potential:**

Data not available.

<b>13. Disposal Consideration</b>
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**13.1 Material**

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

<b>14. Transport Information</b>
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**14.1 Land Transport:**

Road: Flammable liquid. (Class: 3, GP III, HAZ CHEM 3Y)

Rail: Flammable liquid. (Class: 3, GP III, HAZ CHEM 3Y)

**14.2 Sea Transport:** Flammable liquid. (Class: 3.3, GP III, HAZ CHEM 3Y)

**14.3 Air Transport:** Flammable liquid. (Class: 3, GP III, HAZ CHEM 3Y)

**14.4 Postal and Courier Service:** This product cannot be transported.

<b>15. Regulatory Information</b>
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This product is hazardous and Flammable.

<b>16. Other Information</b>
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**16.1 Full Text of R-Phrases Contained in Section 2:**

<b>R10</b>	Flammable
<b>R37</b>	Irritating to the respiratory system.
<b>R43</b>	May cause sensitization by skin contact
<b>R66</b>	Repeated exposure may cause skin dryness or cracking
<b>R67</b>	Vapours may cause drowsiness and dizziness

**16.2 Full Text of S-Phrases Contained in Section 2:**

<b>S24</b>	Avoid contact with skin
<b>S37</b>	Wear suitable gloves
<b>S51</b>	Use only in well ventilated areas.



- 16.3** 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.