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MATERIAL SAFETY DATA SHEET

MSDS 366

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1. Product and Company Identification

- 1.1 PRODUCT NAME:** CHEVALINE ALUFLEXX
- 1.2 USE OF PRODUCT** A flexible weather resistant reflective topcoat.
- 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:**
R10,20,36,37,38,42,43
S23,36,37,45

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
-	Polyisocyanate prepolymer	20-40%	R20/36/37/38/42/43
-	Aromatic Polyisocyanate Prepolymer	10-30%	R20/42
-	Aluminium Paste	10-30%	R10/51/53/67
108-65-6	1-Methoxy-2-propanol acetate	<10%	R10/36
64742-95-6	Solvent naphtha	<5.0%	R10/20/21/36/37/38 51/53/65
4083-64-1	4-toluene-sulfonyl-isocyanate	<2.0%	R14/36/37/38/42

3.3 Only ingredients, additives 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:

Move to fresh air. Give oxygen or artificial respiration as needed. Obtain medical attention immediately. Prompt action is essential.

4.2 After Skin Contact:

Remove contaminated clothing. Wash thoroughly with soap and water. Flush with lukewarm water for 15 minutes. If sticky, use waterless cleaner first. Seek medical attention if discomfort persists.

4.3 After Eye Contact:

Immediately flush eyes with large amounts of clean low pressure water for at least 15 minutes, occasionally lifting the upper and lower lids. If pain persists, obtain medical attention promptly.

4.4 After Ingestion:

If large quantities swallowed, give lukewarm water (pint / ½ litre) if victim completely conscious and alert. Do not induce vomiting. Risk of damage to lungs exceeds poison risk. Obtain medical attention immediately.

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 dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

5.2 Protective Equipment:

Use positive pressure self-contained breathing apparatus and wear full body protective clothing.

5.3 Specific Hazards:

Keep away from heat and flames. When heated above flashpoint releases flammable vapours.

5.4 Combustion Products:

Carbon monoxide, carbon dioxide, fumes and smoke. May also produce hydrogen cyanide and oxides of nitrogen.

5.5 Precaution in Connection with Fire:

When exposed to ignition source, vapours can burn in open or explode if confined. Vapours may travel along ground before igniting and flash back to vapour source. Fight fire from a safe distance. Heat may build enough pressure to rupture closed containers. Use water spray/fog for cooling. Avoid frothing/steam explosion. Burning liquid may float on water.

6. Accidental Release Measures

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 by containing the spill/leak with sand or earth.

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

6.1.7 Place spent absorbent into suitable sealable container, properly labelled.

6.1.8 Store away from heat source, sparks and naked flames ready for disposal.

7. Handling and Storage

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 remains after emptying.
- 7.1.7 Use adequate personal protective equipment and observe precautions pertaining to use in confined spaces.
- 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 away from oxidizing agents.
 - 7.2.4 Store in a cool, well ventilated space.

8. Exposure Controls and Personal Protection Equipment

8.1 Exposure Limits:

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 ³) STEL (ACGIH): 50ppm (250mg/m ³)

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).

8.2.1 Personal Protection Equipment:

Respiratory Protection - Use approved respirator with replaceable organic vapour filter.
Hand Protection – Wear chemically resistant gloves such as neoprene.
Eye Protection – Wear chemical splash goggles and/or face shield. Must be worn when n possibility exists for eye contact due to splashing or spraying liquid, airborne particles or vapour.

8.2.2 Additional Remarks:

Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment, relative to the task to be performed, conditions present, duration of use and the hazards and/or potential hazards that may be encountered during use.



9. Physical and Chemical Properties

9.1 General Information:	
Physical State/Form	Liquid
Colour	Various
Odour	Hydrocarbon solvent
Flash Point	26°C (closed cup)
Water Solubility/Miscibility	Negligible.
Specific Gravity	1.07
VOC	140 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:**
Extended contact with air or oxygen. Heat, sparks, open flame and other ignition sources, and oxidizing conditions.
- 10.3 Material to Avoid:**
Strong oxidizing agents. Moisture and humidity. May react with oxygen to form peroxides.
- 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 toxicity data is available for this product.
- 11.2 Skin Contact:**
May cause irritation to the skin.
- 11.3 Eye Contact:**
May cause moderate irritation, including burning sensation, tearing, redness or swelling.
- 11.4 Ingestion:**
Ingestion may cause gastrointestinal discomfort with any or all of the following symptoms: Nausea, vomiting, lethargy or diarrhea.
- 11.5 Inhalation:**
Prolonged over exposure to either vapour or mist may cause coughing, shortness of breath, dizziness and drunkenness.
- 11.6 Chronic Effects:**
Prolonged or repeated contact may cause sensitization by inhalation and by skin contact. Harmful if inhaled. May cause difficult breathing, coughing and asthma.



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.

13. Disposal Consideration

- 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.

14. Transport Information

- 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.

15. Regulatory Information

This product is hazardous and flammable.

16. Other Information

- 16.1 Full Text of R-Phrases Contained in Section 2:**
- | | |
|------------------|--|
| R10 | Flammable |
| R20 | Harmful by inhalation |
| R36/37/38 | Irritating to eyes, respiratory system and skin |
| R42/43 | May cause sensitization by inhalation and skin contact |



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

- S23** Do not breathe gas/fumes/vapour/spray
S36/37 Wear suitable protective clothing and gloves
S45 In case of accident or if you feel unwell, seek medical advice immediately.

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.