SAFETY DATA SHEET

1. Product and Company Identification

1.1 PRODUCT NAME: CHEVALINE CLEARCURE 2K FG TOPCOAT (UNIT A)

1.2 USE OF PRODUCT When mixed with the (unit B) it produces a high-performance long-life chemical and weather resistant clear finish for exterior or interior use.

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
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: 13 October 2020

2. Hazards Identification

2.1 Classification:
HSNO Status :Classified as hazardous according to New Zealand Hazardous substances (minimum degrees of hazard) Regulations 2017.

2.2 DG Status:
Classified as Dangerous Goods according to NZS 5433

2.3 Hazard Classification:

CLASS AND GHS CATEGORY		HSNO EQUIVALENT	HAZARD STATEMENTS
Flammable Liquid	Cat 3	3.1C	H226 - Flammable liquid and vapour.
Acute Dermal Toxicity	Cat 4	6.1D (dermal)	H312 - Harmful in contact with skin
Acute Inhalation Toxicity (vapour)	Cat 4	6.1D (inhalation)	H332 - Harmful if inhaled
Aspiration Toxicity	Cat 1	6.1E (aspiration)	H304 - May be fatal if swallowed and enters airways
Skin Corrosion/Irritation	Cat 2	6.3A	H315 - Causes skin irritation
Serious Eye Damage/Eye Irritation	Cat 2	6.4A	H319 - Causes serious eye irritation
Reproductive Toxicity	Cat 2	6.8B	H361 - Suspected of damaging fertility or the unborn child
Skin Sensitisation	Cat 1	6.5B	H317 - May cause an allergic skin reaction
STOT - RE	Cat 2	6.9B	H373 - May cause damage to organs
STOT - SE	Cat 3	6.9 (respiratory tract irritant)	H335 - May cause respiratory irritation.
Aquatic Toxicity (Chronic)	Cat 3	9.1C	H412 - Harmful to aquatic life with long lasting effects

Pictograms:

Signal Word: Warning

2.4 Prevention Statements

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P241	Use explosion-proof electrical/ventilating/lighting.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area
P272	Contaminated work clothing should not be allowed out of the workplace
P273	Avoid release to the environment

2.5 Response Statements

P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P370+378	In case of fire: Use carbon dioxide, foam dry powder or water spray on large fires for extinction
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P312	Call a POISON CENTER or doctor/physician if you feel unwell
P363	Wash contaminated clothing before reuse.
P304+P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P331	Do NOT induce vomiting
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P332+P313	If skin irritation occurs: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before re-use.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337+P313	If eye irritation persists: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention
P314	Get medical advice/attention if you feel unwell.

2.6 Storage Statements:

P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

2.7 Disposal Statement:

Dispose of contents / container in accordance with local and regional regulations.

3. Composition/Information on Ingredients

3.1

CAS NO.	COMPONENT	CONCENTRATION (% Weight)
1330-20-7	Xylene	17
108-65-6	1-methoxy-2-propanol acetate	30
108-10-1	Methyl-isobutyl-ketone	5
41556-26-7	Bis (1,2,2,6,6-pentamethyl-4-piperidyl) Sebacate	<0.25
32919-37-7	Methyl (1,2,2,6,6-pentamethyl-4-piperidyl) Sebacate	<0.25
104810-48-2	[3-[3-(2H-Benzotriazol-2-yl)-5-(1,1-dimethyl ethyl) 4-Hydrophenyl)-1-oxopropyl]-hydroxypoly(oxo-1,2-ethanediyl	>0.2-<0.6
104810-47-1	Polyethylene glycol di[3-[3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxylphrnyl]-1-oxopropyl] ether	>0.2-<0.4
77-58-7	Di-n-butyletainlaurate	<0.03
Balance of Ingredients: Non-hazardous or below hazardous threshold		

4. First Aid Measures

4.1 After Inhalation:
If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If required, artificial respiration or administration of oxygen can be performed by trained personnel. If symptoms persist, seek medical attention.

4.2 After Skin Contact:
Remove/take off all contaminated clothing. Wash area of contact thoroughly with plenty of soap and water. If irritation, rash or other disorders develop, seek medical attention immediately. Wash contaminated clothing before re-use.

4.3 After Eye Contact:
Rinse cautiously with water for at least 15 minutes while holding eye lids apart. Remove contact lenses if present and easy to do. Continue rinsing. If irritation persists, seek medical advice/attention.

4.4 After Ingestion:
Wash out mouth thoroughly with water. Do not induce vomiting. Call Poison Centre or Doctor/Physician.

4.5 General:
Get immediate medical attention for any significant over exposure.

4.6 Advice to Doctor:
Treat symptomatically.

5. Fire Fighting Measures

5.1 Suitable Extinguishing Media:
If water fog is ineffective, use carbon dioxide, dry chemical or foam.

5.2 Protective Equipment:
Use accepted firefighting technique. Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA). Water may be used to cool containers to minimize pressure build-up, and water spray to disperse vapours.

5.3 Specific Hazards:
Product may ignite if heated in excess of its flashpoint. Closed container may burst when exposed to extreme heat. Empty containers may contain ignitable vapours. Vapours may travel to sources of ignition and flash back

5.4 Combustion Products:
Carbon monoxide and carbon dioxide can form. Smoke, fumes.

5.5 Fire and Explosion Conditions:
Product may ignite if heated in excess of its flashpoint.
Vapours may travel to source of ignition and flashback.
Closed container may burst when exposed to extreme heat.
Containers may contain ignitable vapours.

5.6 Additional Information:
Flashpoint = 24°c (Closed cup) Hazchem Code 3[Y]

6. Accidental Release Measures

6.1 Preliminary Action and Precautions:

6.1.1 Eliminate very possible source of ignition.

6.1.2 Evacuate all personnel immediately and ventilate.

6.1.3 Avoid breathing vapour and contact with skin, eyes and clothing.

6.1.4 Wear recommended personal protective equipment.

6.1.5 Shut off leaks if possible, without risk.

6.1.6 Dike in the spilled product as much as possible with inert material.

6.1.7 Prevent entry of product into sewers, storm water drains and open bodies of water.

6.1.8 Clean up all spills as soon as possible, using an inert absorbent material and dispose of as hazardous waste.

7. Handling and Storage

7.1 Handling:

7.1.1 Prevent inhalation of vapour, ingestion and contact with skin, eyes and clothing.

7.1.2 Wear overalls, impervious gloves and safety glasses.

7.1.3 Keep container closed when not in use. Precautions also apply to emptied containers.

7.1.4 Changed soiled work clothing frequently.

7.1.5 Clean hands thoroughly after handling.

7.1.6 Do not smoke, weld, generate sparks, or use flame near container.

7.1.7 To prevent generation of static discharges, use bonding/grounding connection when pouring liquid.

7.1.8 Extinguish all ignition source including pilot lights, and do not use non-explosion proof motors and electrical equipment until vapours dissipate.

7.2 Storage:

7.2.1 Store under dry warehouse conditions, cool and well ventilated.

7.2.2 Store away from sources of ignition, (i.e sparks, open flames, heat etc)

7.2.3 Store away from strong acids, oxidizing agents, foodstuffs and clothing.

7.2.4 Keep containers tightly closed at all times.

8. Exposure Controls and Personal Protection Equipment

8.1 Exposure Limits:

SUBSTANCE	CAS NUMBER	REGULATION	LIMIT	
			PPM	MG/M^3
1-methoxy-2-propanol accetate	108-65-6	ACGHI / TWA	100	-
Xylene	1330-20-7	WES / TWA	50	217
Methyl isobutyl ketone	108-10-1	WES / TWA	50	205
		WES / STEL	75	307

8.2 Exposure Controls:

8.2.1 Exposure Controls in the Work Place:
Use only in well ventilated areas. Provide maximum ventilation in enclosed areas. Use local exhaust when the general, ventilation is inadequate.

8.2.2 Personal Protection Equipment:

Respiratory Protection - Wear appropriate, properly fitted NIOSH/MSHA, approved respirator when airborne contaminant level(s) are expected to exceed exposure limits indicated on the SDS. Select positive pressure supplied air respirator for isocyanates, (TC 19c or equivalent).

Hand Protection - Use suitable impervious nitrile or neoprene gloves and protective apparel to reduce exposure.

Eye Protection - Wear appropriate eye protection. Wear chemical safety goggles and/or face shield to prevent eye contact. Do not wear contact lenses. Do not touch eyes with contaminated body parts or materials. Have eye washing facilities readily available.

Skin / Body Protection - Wear suitable protective clothing eg long sleeved cotton overalls

Protective Measure - Use professional judgment in the selection, care, and use.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties:

Physical State/Form	Liquid
Colour	Clear
Odour	Solvent
Odour Threshold	Not established
pH	Not applicable
Boiling Point	100-200^{o}C
Flash Point	24^{0}C (closed cup)

Evaporation Rate	Not established
Flammability (solid,gas)	Not applicable
Burning Number	Not applicable
Vapour Pressure	Not established
Vapour Pressured ingredients:	
Xylene isomers mixture	ca 7- 9hPa at 20°C
2-methoxy-1-methylethyl acetate	5hPa at 20°C
Methyl isobutyl ketone	ca20hPa at 20°C
Specific Gravity	ca1.07
Miscibility with Water	Moderate soluble
Water Solubility of ingredients:	
2-methoxy-1-methylethyl acetate	ca 200g/l at 20°C
Methyl isobutyl ketone	ca.20g/ℓ
Surface Tension	Not established
Partition co-efficient (n-octanol / water)	Not established
Auto ignition temperature	Not established
Ignition temperature	Not established
Decomposition temperature	Not established
Viscosity, Dynamic	Not established
Explosive Properties	Not established
Dust explosion class	Not applicable
Oxidising Properties	Not established

10. Stability and Reaction

10.1 General Information:
This material is stable when properly handled and stored.

10.2 Conditions to Avoid:
High temperatures, open flames, sparks.

10.3 Material to Avoid:
Strong acids and oxidising agents.

10.3 Hazardous Decomposition Products:
None expected when material properly handled and stored. For thermal decomposition see Section 5.

10.5 Hazardous Polymerisation:
Will not occur under normal conditions.

11. Toxicological Information

11.1 Health Effects/Symptoms of Exposure:
Vapour and/or mist may irritate nose and throat. Leave area to breathe fresh air. Avoid further over exposure. If symptoms persist, seek medical attention.

11.2 Toxicological Data on Components:

Xylene isomers mixture:		CAS No. 1330-20-2
Oral LD50 Rat:	3523-8700mg/kg	
Inhalation: LC50 Rat:	29.49 mg/ℓ, 4h	
Skin:	Irritating	

2-Methoxy-1-methylethyl acetate		CAS No. 108-65-6
Oral LD50 Rat:	8532 mg/kg	
Inhalation: LC50 Rat:	23.8 mg/ℓ, 6h	
Skin: Rabbit	Non-Irritating	

Methyl isobutyl ketone		CAS No. 108-10-1
Oral LD50 Rat:	2,080mg/kg	
Inhalation: LC50 Rat:	11.6 mg/ℓ, 4h	
Skin: Rabbit:	non-irritating	

11.3 Skin Contact:
May cause sensitization resulting in irritation, itching and redness.

11.4 Eye Contact:
Vapours and/or mist may cause eye irritation.

11.5 Ingestion:
May cause irritation to the mouth, throat and stomach. May cause gastrointestinal irritation, nausea and vomiting.

11.6 May cause drowsiness, weakness, and fatigue. Vapour and/or mist may irritate nose and throat. May cause moderate irritation to the respiratory system. May cause allergic respiratory sensitization.

11.7 Chronic Effects:
Unless suitable engineering controls and/or personal protective equipment is used:
- Repeated over-exposure to vapour may lead to asthma and sensitization or damage to the respiratory system
- Repeated unprotected physical contact with the material may cause defatting of the
- skin leaving it vulnerable to irritation, dermatitis and/or sensitization.
- Prolonged over exposure to vapour and/or unprotected physical contact may lead to internal organ sensitization and/or damage. The central nervous system may also be affected.

12. Ecological Information

12.1 Environment Protection:
Prevent from entering drains, sewers and waterways.

May cause long lasting harmful effects to aquatic life.

12.2 Ecotoxicity:
For Xylene:

Oncorhynchus mykiss (Rainbow Trout):	EC50(96hr) 3.3 mg/ℓ
Palaemonetis pagio (Daggerblade Grass Shrimp):	EC50(72hr) 8.5 mg/ℓ
Skeletonema costatum (Algae):	EC50(72hr) 10.0 mg/ℓ

For 2-methoxy-1-methylethyl acetate:

Oncorhynchus mykiss (Rainbow Trout):	LC50(96hr) >179mg/ℓ
Daphnia magna (Water Flea):	EC50(48hr)>500mg/ℓ

For Methyl isobutyl ketone:

Danio rerio (zebra fish)	LC50(96hr) 100mg/ℓ
Daphnia magna (Water Flea):	EC50(48hr) >200.0mg/ℓ

12.3 Persistence and degradability:
Data not available.

12.4 Bioaccumulative Potential:
Data not available.

13. Disposal Consideration

13.1 Disposal Methods:
Subject to hazardous waste treatment, storage and disposal requirements. Recycle or incinerate waste at approved facility or dispose of in compliance with national/regional/local waste disposal regulations.DO NOT EMPTY INTO DRAINS, SEWERS OR WATERWAYS.

14. Transport Information

14.1 Classified as dangerous goods under NZS: 5433:2007 Transport of Dangerous Goods on Land:

UN Number:	1263
Proper Shipping Name:	Paint Related
Class:	3
Packing Group:	III
Hazchem Code :	3Y

15. Regulatory Information

15.1 HSNO Approval:

Approval Code:	HSR 002662
HSNO Group Standard:	Surface Coatings and Colourants (Flammable)

15.2 HSNO Contols:

Approved Handler	Not Required

16. Other Information

16.1 Hazard/Classifications:

3.1C	Flammable Liquid – medium hazard.
6.1D	Substances tat are acutely toxic. (Harmful)
6.1E	Substances that are acutely toxic. May be harmful. Aspiration hazard.
6.3A	Substances that are irritating to the skin.
6.4A	Substances that are irritating to the eye.
6.5B	Substances that are contact sensitisers
6.9B	Substances that are harmful to human target organs or systems.
9.1C	Substances that are harmful in the aquatic environment

16.2 Abbreviations/Terminology

HSNO	Hazardous substances and New Organisms Act
CAS	Chemical Abstract Service
ACGIH	American Conference of Governmental Industrial Hygienists
LD50, LC50	Lethal dose/Lethal Concentration – Dose or concentration required to produce the specified effect in 50% of the sample studied.

EC5O	Half maximal effective concentration.
WES	Workplace Exposure Standard (NZ Ministry of Business, Innovation and Employment)
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:	13 October 2020
Reasons:	GHS Version – New Product
Replaces:	N/A

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 cannot 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.