1. Cool Cast

Issue Date of Safety Data Sheet: January 30, 2016
Revision Date: March 20, 2016
Version Number: 1.0b
Supersedes: 1.0a
Prepared By: R. Berger

2. Identification Product Name: Cool Cast

Product Name: ***Cool Cast***

Synonyms:	None
CAS Number:	Glycerin (56-81-5), Zinc Oxide (1314-13-2), Calamine (8011-96-9), Gelatin (9000-70-8), Silicon Dioxide (7631-86-9), L-Menthol (2216-51-5), Methylparaben (99-76-3), 2-Propanol (67-63-0), Propylparaben (94-13-3), Carbopol (9003-01-4), Triethanolanme (102-71-6)
Product Use:	Horse Treatment
Manufacturer/Supplier:	Hawthorne Products Inc.
Address:	16828 N. State Road 167 N. Dunkirk, Indiana 47336 USA
Telephone:	+1 765-768-6585
Fax:	+1 765-768-7672
Internet:	hawthorne-products.com

Transportation Emergency Number: **CHEMTEL**-
For: United States, Canada, Puerto Rico, and the US Virgin Island **1-800-255-3924**
Outside United States, Canada, Puerto Rico and the US Virgin Island -**01-813-248-0585**
ChemTel's in county phone numbers: China: **400-120-0751**, Brazil: **0-800-591-6042**, India: **000-800-100-4086** and Mexico: **01-800-099-0731**.
Collect calls are accepted.

3. Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):

Health

Skin irritation	Category 2, H315
Serious eye damage	Category 1, H318
Acute aquatic toxicity	Category 1, H400
Chronic aquatic toxicity	Category 1, H410

Specific target organ toxicity – single exposure (Category 3), Respiratory system, H335

GHS Label elements, including precautionary statements:
Pictogram:

Signal word Danger

Hazard Statement(s)

H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects.

Precautionary Statement(s)

P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective clothing, protective gloves, and eye/face protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
P321	Specific treatment (see supplemental first aid instructions on this label).
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.
P391	Collect spillage
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS
None

4. Composition / Information on Ingredients

Component	CAS Number	EC Number	Weight %
Glycerin	56-81-5	200-289-5	15-25
Formula: $C_3H_8O_3$ Molecular weight: 92.09 g/mol			
Synonyms: Glycerol, 1,2,3-Propanetriol			
Zinc oxide	1314-13-2	215-222-5	5-15
Formula: OZn Molecular weight: 81.39 g/mol			
Calamine	8011-96-9		5-10
Formula: $OZn + Fe_2O_3$ Molecular weight: 81.39 g/mol (Zinc oxide)			
Remarks: Contains less than 1% Fe_2O_3 (Iron oxide)			
Gelatin	9000-70-8	232-554-6	1-5
Silicon Dioxide	7631-52-5	231-545-4	1-5
Formula: O_2Si Molecular weight: 60.08 g/mol			
Synonyms: Amorphous Silica, Pyrogenic (Fumed) Amorphous Silica			
L-Menthol	2216-51-5	218-690-9	<1
Formula: $C_{10}H_{20}O$ Molecular weight: 156.27 g/mol			
Synonyms: 2-Isopropyl-5-methylcyclohexanol, Hexahydrothymol			
Methylparaben	99-76-3	202-785-7	<1
Formula: $C_8H_8O_3$ Molecular weight: 152.15 g/mol			
Synonyms: Methyl 4-hydroxybenzoate, p-Hydroxybenzoic acid methyl ester			
2-Propanol	67-63-0	200-661-7	<1
Formula: C_3H_8O Molecular weight: 60.10 g/mol			
Synonyms: Iso-propanol, sec-propyl alcohol, isopropyl alcohol			
Propylparaben	94-13-3	202-785-7	<1
Formula: $C_{10}H_{12}O_3$ Molecular weight: 180.20 g/mol			
Synonyms: Propyl 4-hydroxybenzoate, p-Hydroxybenzoic acid propyl ester			
Carbopol	9003-01-4		<1
Formula: $(C_3H_4O_2)_n$			
Synonyms: Poly(acrylic acid), Poly(propenoic acid)			

Triethanolamine	102-71-6	203-049-8	<0.1
Formula:	$C_6H_{15}NO_3$		
Synonyms:	2,2',2"-Nitrolotriethanol; Tris(2-hydroxyethyl)amine		

Water	7732-18-5	231-791-2	60-72

(See Section 9 for Exposure Limits)

Hazardous components

Component	Classification
Zinc oxide	Aquatic Acute 1; Aquatic Chronic 1; H400, H410
Propylparaben	Aquatic Acute 2; H401
L-Menthol	Skin Irrit. 2; Eye Dam. 1; STOT SE 3; Aquatic Acute 3; Aquatic Chronic 3; H315, H318, H335, H412

For the full text of the H-Statements mentioned in this Section, see Section 17.

5. First Aid Measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Eye: Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing.

Skin: Wash affected area thoroughly with soap and water, especially under fingernails and around cuticles. Consult a physician.

Inhalation: If affected, remove individual to fresh air. If not breathing, give artificial respiration. Consult a physician.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed: The most important known symptoms and effects are described in the labelling (See Section 3, Precautionary Statements) and/or Section 12.

Indication of any immediate medical attention and special treatment needed:
No data available.

In all cases be prepared to treat for shock.

6. Fire-fighting Measures

Suitable Extinguishing Media: Use water, water spray, alcohol-resistant foam, dry chemical, and/or carbon dioxide.

Fire Fighting Procedures: Do not flush down sewers or other drainage systems.

Special hazards arising from the substance or mixture: Carbon oxides, zinc/zinc oxides

Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

Further information: Use water spray to cool unopened containers

7. Accidental Release Measures

Use personal protective equipment. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Do not let product enter drains. Discharge into the environment must be avoided. Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. For personal protection, see Section 9.

8. Handling and Storage

Handling
Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. For precautions see Section 3.

Storage
Store is tightly closed containers in a dry and well-ventilated area. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Containers may be rinsed clean if the used rinse water is not discharged directly to the sewer or drain. After proper rinsing, empty containers may be disposed.

9. Exposure Controls / Personal Protection

Exposure Limits

Components with workplace control parameters

Glycerin CAS No. 56-81-5

TWA: 10 mg/m^3

Basis: USA ACGIH Threshold Limit Value (TLV)

Respirational Fraction **TWA:** 5 mg/m^3

Total Dust **TWA:** 15 mg/m^3

Basis: USA – Occupational Exposure Limits (OSHA) Table Z-1 Limits for Air Contamination

Remarks: Upper Respiratory Tract irritation

Zinc Oxide CAS No. 1314-13-2

TWA: 2 mg/m^3

STEL: 10 mg/m^3

Basis: USA ACGIH Threshold Limit Value (TLV)

Remarks: metal fume fever

TWA: 5 mg/m^3

ST: 10 mg/m3

C: 15 mg/m3

Basis: USA NIOSH Recommended Exposure Limits

Respirational Fraction **TWA:** 5 mg/m^3

Total Dust **TWA:** 15 mg/m^3

Basis: USA -– Occupational Exposure Limits (OSHA) Table Z-1 Limits for Air Contamination

L-Menthol CAS No. 2216-51-5

Contains no substances with occupational exposure limit values.

Remarks: Not classifiable as a human carcinogen

2-Propanol CAS No. 67-63-0

TWA: 200 ppm

STEL: 400 ppm

Basis: USA ACGIH Threshold Limit Value (TLV)

TWA: 400 ppm
980 mg/m^3

Basis: USA – Occupational Exposure Limits (OSHA) Table Z-1 Limits for Air Contamination

TWA: 400 ppm
980 mg/m^3

ST: 500 ppm
1,225 mg/m^3

Basis: USA - NIOSH Recommended Exposure Limits

Remarks: Central Nervous System impairment
Upper Respiratory Tract irritation

Eye irritation

Biological Occupational exposure limits

Biological specimen – Urine – 40 mg/L inspect for acetone
Basis: ACGIH – Biological Exposure Indices (BEI)
Remarks: End of shift at end of workweek

Propylparaben CAS No. 94-13-3
Contains no substances with occupational exposure limit values.

Remarks: Not classifiable as a human carcinogen

Engineering Controls:

Local exhaust ventilation may be necessary to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source. Provide mechanical ventilation for confined spaces.

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal Protective Equipment (PPE)

Eye Protection: Wear safety glasses with side-shields. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU). Have eye-wash stations available where eye contact can occur.

Skin Protection: Wear nitrile-rubber gloves that are impervious to conditions of use. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good industrial practices. Wash and dry hands.

Full contact:
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 minutes
Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact:
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 60 minutes

Material tested: Dermatril® P (KCL 740 / Aldrich Z677272, Size M)

Data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

Should conditions differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by the consumer. It should not be construed as offering an approval for any specific use scenario.

Body Protection: Use impervious clothing, flame retardant antistatic protective clothing.

Respiratory Protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

10. Physical and Chemical Properties

Room Temperature Appearance: Pink colored gel
Odor: Slightly Alcohol like
pH: Not available
Flashpoint: 160°C closed cup for glycerine
Autoignition Temperature: No data available
Upper/lower Explosion Limits: Upper explosion limit: NA (V)
Lower explosion limit: NA (V)

Boiling Point: Greater than 300°F
Melting Point: Not available
Vapor Pressure: As water (68°F)
Evaporation rate: No data available
Vapor Density: No data available
Specific Gravity: 1.20 – 1.25 @ 20°C
Molecular Formula: mixture with water
Molecular Weight: mixture with water

11. Stability and Reactivity

Stability: Stable under recommended storage conditions.

Incompatibility: Magnesium, acids, strong bases, and strong oxidizing agents

Conditions to avoid: Contact with incompatible materials.

Possibility of hazardous reactions: None known.

Hazardous Reactions/Decomposition Products: In event of fire see section 6.

12. Toxicological Information

Acute Toxicity Values:

Glycerin

LD50 Oral – Rat – 12,600 mg/kg

Inhalation: No data available

LD50 Dermal – Rabbit – >10,000 mg/kg

Skin irritation – Rabbit – Mild skin irritation – 24 h

Eye irritation – Rabbit – Mild eye irritation – 24 h

Germ cell mutagenicity: No data available

Additional Information:
RTECS: MA8050000
Prolonged or repeated exposure may cause: Nausea, Headache, Vomiting.

Kidney – Irregularities – Based on Human Evidence

Zinc Oxide

LD50 Oral – Mouse – 7,950 mg/kg

LC50 Inhalation – Mouse – 2,500 ppm

Skin irritation – Rabbit – Mild skin irritation – 24 h

Eye irritation – Rabbit – Mild eye irritation - 24 h

Germ cell mutagenicity

Hamster – Embryo – Unscheduled DNA synthesis, Morphological transformation, sister chromatid exchange.

Guinea pig – Unscheduled DNA synthesis.

Additional Information:
RTECS: ZH4810000
Zinc oxide dust or fume can irritate the respiratory tract. Prolonged skin contact can produce a severe dermatitis called oxide pox. Exposure to high levels of dust or fume can cause metallic taste, marked thirst, coughing, fatigue, weakness, muscular pain, and nausea followed by fever and chills. Severe overexposure may result in bronchitis or pneumonia with a bluish tint to the skin. Prolonged or repeated exposure can cause:, Reversible liver enzyme abnormalities, Diarrhea

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Calamine

As zinc oxide

Additional Information:
RTECS: ZH4810000

2-Propanol

LD50 Oral – Rat – 5,045 mg/kg
Remarks: Behavioral:altered sleep time (including change in righting reflex).
Behavioral:Somnolence (general depressed activity).

LC50 Inhalation – Rat – 8 h – 16000 ppm

LD50 Dermal – Rabbit – 12,800 mg/kg

Additional Information:
RTECS: NT8050000
Central nervous system depression, prolonged or repeated exposure can cause: nausea, headache, vomiting, narcosis, drowsiness. Overexposure may cause mild, reversible liver effects. Aspiration may lead to: Lung oedma, Pneumonia. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Kidney – Irregularities – Based on Human Evidence

L-Menthol:

LD50 Oral - Cat - 800 mg/kg

LD50 Oral - Mouse - 3,400 mg/kg

Inhalation: No data available

LD50 Dermal - Rabbit - > 5,000 mg/kg

LD50 Intraperitoneal - Rat - 700 mg/kg
Remarks: Behavioral:General anesthetic. Behavioral:Altered sleep time (including change in righting reflex). Respiratory disorder

LD50 Intraperitoneal - Mouse - 6,600 mg/kg

LD50 Intraperitoneal - Cat - 800 mg/kg

LD50 Subcutaneous - Rat - 1,000 mg/kg

LD50 Subcutaneous - Mouse - 5,000 mg/kg

Eye irritation – No data available

Additional Information:
RTECS: OT0700000
Inhalation – May cause respiratory irritation.
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Carcinogenicity:

IARC: Group 3: Not classifiable as to its carcinogenicity to humans.

ACGIH: No components of this product present at levels greater than or equal to 0.1% are identified as probable, possible, or confirmed human carcinogen by ACGIH.

NTP: No components of this product present at levels greater than or equal to 0.1% are identified as probable, possible, or confirmed human carcinogen by NTP.

OSHA: No components of this product present at levels greater than or equal to 0.1% are identified as probable, possible, or confirmed human carcinogen by OSHA.

13. Ecological Information:

Toxicity:

Exclusive to zinc oxide:
Fish LC50 – Oncorhynchus mykiss (rainbow trout) – 1.1 mg/L – 96 h

Toxicity to daphnia And other aquatic Invertebrates EC50 – Daphnia magna (Water flea) – 0.098 mg/L – 48 h

Exclusive to L-Menthol
Fish LC50 - Pimephales promelas (fathead minnow) - 18.9 mg/l - 96 h

14. Disposal Considerations

Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Packaging
Dispose of as unused product

15. Transport Information

Not classified as hazardous for transport.

16. Regulatory Information

Code letter and hazard designation of product:

 Warning  Marine Pollutant  Corrosive

U.S. Federal Regulations

Comprehensive Environmental Response and Liability Act of 1980 (CERCLA):
No components in this material have an RQ value.

SARA 302 Components: No chemicals in the product are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components:

The following component is subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Zinc oxide	1314-13-2	2007-03-01
2-Propanol	67-63-0	1987-01-01

SARA 311/312 Hazards:

Glycerin	Chronic Health hazard
2-Propanol:	Fire Hazard, Acute Health Hazard, Chronic Health Hazard
2,2',2''-Nitrilotriethanol	Chronic Health Hazard
Propylparaben	Chronic Health Hazard
L-Menthol	Acute Health Hazard

State Regulations

Massachusetts Right to Know Components:

	CAS-No.	Revision Date
Silica	7631-86-9	
2-Propanol	67-63-0	1987-01-01
Zinc oxide	1314-13-2	2007-03-01
Glycerin	56-81-5	2007-03-01
2,2',2''-Nitrilotriethanol	102-71-6	1993-04-24

Pennsylvania Right to Know Components:

	CAS-No.	Revision Date
Silica	7631-86-9	
2-Propanol	67-63-0	1987-01-01
Zinc oxide	1314-13-2	2007-03-01
Glycerin	56-81-5	2007-03-01
Gelatin	9000-70-8	
2,2',2''-Nitrilotriethanol	102-71-6	1993-04-24
Methyl 4-hydroxybenzoate	99-76-3	2012-0701
Poly(acrylic acid)	9003-01-4	
Propylparaben	94-13-3	2012-07-01
L-Menthol	2216-51-5	

New Jersey Right to Know Components:

	CAS-No.	Revision Date
Silica	7631-86-9	
2-Propanol	67-63-0	1987-01-01
Zinc oxide	1314-13-2	2007-03-01
Glycerin	56-81-5	2007-03-01
Gelatin	9000-70-8	
2,2',2''-Nitrilotriethanol	102-71-6	1993-04-24
Methyl 4-hydroxybenzoate	99-76-3	2012-0701
Poly(acrylic acid)	9003-01-4	
Propylparaben	94-13-3	2012-07-01
L-Menthol	2216-51-5	

Rhode Island Right to Know Components:

	CAS-No.	Revision Date
Zinc oxide	1314-13-2	2007-03-01

California Prop. 65 Components:

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

International Regulations

Canadian Environmental Protection Act: All chemicals in this product are included in the Canadian Domestic Substances List.

Canadian Workplace Hazardous Materials Information System (WHMIS): The following chemicals are included in the WHMIS.

Name	CAS-No.
Silica	7631-86-9
2-Propanol	67-63-0
Zinc Oxide	1314-13-2

17. Other Information

Full text of H-Statements referred to under sections 3 and 4.

Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Eye Dam.	Serious eye damage

H315	Causes skin irritation
H318	Causes serious eye damage
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects
Skin Irrit.	Skin irritation
STOT SE	Specific target organ toxicity – single exposure

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability	1
Physical Hazard	0

National Fire Protection Association (NFPA) Ratings: This information is intended solely for the use of individuals trained in the NFPA system.

Health:	2
Flammability:	**1**
Reactivity:	0

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