



The Hoofcare Experts

SAFETY DATA SHEET
Keratex Hoof Hardener

ACCORDING TO US CFR 1910.1200

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name Keratex Hoof Hardener.
CAS No. Not applicable.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s) A patented hardener for equine hooves.
Uses Advised Against Not known.

1.3 Details of the supplier of the safety data sheet

Company Identification Penleigh Irving Ltd.
Address Unit 7 Fairwood Trading Estate
Dilton Marsh, Wiltshire
United Kingdom
Zip code BA13 4SW
Telephone +44 (0)1373 827 649
Fax +44 (0)1373 827 007
E-mail info@keratex.com

1.4 Emergency telephone number

Company +44 (0)7969 467 388
National Capital Poison Control Center, 911 or 1-800-222-1222
USA

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

US CFR 1910.1200 Acute Tox. 4 :Harmful if swallowed.
Carc. 1B :May cause cancer.
Eye Dam. 1 :Causes serious eye damage.
Muta. 2 :Suspected of causing genetic defects.
Skin Corr. 1B :Causes severe skin burns and eye damage.
Skin Sens. 1 :May cause an allergic skin reaction.
STOT SE 2 :May cause damage to organs.
STOT SE 3 : May cause respiratory irritation.

2.2 Label elements

Product Name Keratex Hoof Hardener.

Hazard Pictogram(s)



GHS05



GHS08



GHS07

Signal Word(s)

Danger.



The Hoofcare Experts

SAFETY DATA SHEET

Keratex Hoof Hardener

Hazard Statement(s) H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H317: May cause an allergic skin reaction.
H341: Suspected of causing genetic defects.
H350: May cause cancer.
H371: May cause damage to organs.
H335: May cause respiratory irritation.

Precautionary Statement(s) P201: Obtain special instructions before use.
P260: Do not breathe vapor.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313: IF exposed or concerned: Get medical advice/attention.

2.3 Other hazards

None known.

2.4 Additional Information

For full text of H/P Statements see section 16.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable.

3.2 Mixtures

HAZARDOUS INGREDIENT(S)	CAS No.	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
Glycerol	56-81-5	10-30	Not classified	None
Hydrochloric acid		5-10	Met. Corr. 1 H290 Skin Corr. 1B H314 Eye Dam. 1 H318 STOT SE 3 H335 Specific concentration limit: 10% ≤ C < 25%	GHS05 GHS07
Formaldehyde	50-00-0	1-5	Acute Tox. 3 H301 Acute Tox. 3 H311 Skin Corr. 1B H314 Skin Sens. 1 H317 Acute Tox. 3 H331 Muta. 2 H341 Carc. 1B H350	GHS06 GHS05 GHS08



The Hoofcare Experts

SAFETY DATA SHEET
Keratex Hoof Hardener

Methanol	67-56-1	1-5	Flam. Liq. 2 H225 Acute Tox. 3 H301 Acute Tox. 3 H311 Acute Tox. 3 H331 STOT SE 1 H370 Liq. Static HCS006	GHS02 GHS06 GHS08
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SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	Remove person to fresh air and keep comfortable for breathing. IF exposed or concerned: Call a POISON CENTER/doctor.
Skin Contact	Take off immediately all contaminated clothing. Rinse skin with water. If skin irritation or rash occurs: Get medical advice/attention.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER/doctor if you feel unwell.
Ingestion	Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

4.2 Most important symptoms and effects, both acute and delayed

None anticipated.

4.3 Indication of any immediate medical attention and special treatment needed

IF exposed or concerned: Get medical advice/attention.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Suitable Extinguishing Media	As appropriate for surrounding fire.
Unsuitable Extinguishing Media	None.

5.2 Special hazards arising from the substance or mixture

Decomposes in a fire giving off toxic fumes: Carbon monoxide, Carbon dioxide, Hydrogen chloride.

5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation when using the material and follow the principles of good occupational hygiene to control personal exposures. Do not breathe vapor. Wear appropriate personal protective equipment, avoid direct contact. Contaminated work clothing must not be allowed out of the workplace.



The Hoofcare Experts

SAFETY DATA SHEET
Keratex Hoof Hardener

6.2 Environmental precautions

Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

6.3 Methods and material for containment and cleaning up

Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal.

6.4 Reference to other sections

See Also Section 8, 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Avoid contact with skin and eyes. Wash hands and exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Store locked up. Store in a well-ventilated place. Keep container tightly closed.

Storage temperature

Ambient.

Storage life

Stable under normal conditions.

Incompatible materials

Strongly acidic, Chlorohydrocarbons, Ordinary metals.

7.3 Specific end use(s)

A patented hardener for equine hooves.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
Glycerol (Total Dust)	56-81-5		15			OSHA PEL Z-1
Glycerol (Respirable Dust)	56-81-5		5			OSHA PEL Z-1
Formaldehyde	50-00-0	0.75		2		OSHA PEL
		0.016				NIOSH REL Z-1, Ca, C = 0.1ppm [150min]
		0.1	0.12	0.3	0.37	ACGIH TLV, DSEN, RSEN
Methanol	67-56-1	200	260			OSHA PEL Z-1
		200	260	250	325	OSHA PEL, S
		1000				OSHA PEL, S, C
		200		250		NIOSH REL Z-1
		200	262	250	328	ACGIH TLV, Skin



SAFETY DATA SHEET

Keratex Hoof Hardener

Remark	Notes
OSHA PEL Z-1	Occupational Safety and Health Administration (OSHA) Permissible Exposure Limit (PEL) from 29 CFR 1910.1000 Z-1 Table.
OSHA PEL	Occupational Safety and Health (OSHA) Permissible Exposure Limits (PELs).
NIOSH REL Z-1	National Institute for Occupational Safety and Health (NIOSH) Recommended Exposure Limits (RELs) from the NIOSH Pocket Guide to Chemical Hazards table Z-1: Up to 10-hour time weighted average (TWA) during a 40-hour work week.
Ca	Potential occupational carcinogens. See NIOSH Appendix A http://www.cdc.gov/niosh/npg/nengapdx.html
C = 0.1ppm [150min]	Ceiling limit of 0.1ppm and 150min duration.
ACGIH TLV	The American Conference of Governmental Industrial Hygienists (ACGIH®) Threshold Limit Values (TLVs®) 2018.
DSEN	May cause dermal sensitization.
RSEN	May cause respiratory sensitization.
S	Skin Sensitization.
C	Ceiling limit.
c	DSEN and RSEN are applicable for water soluble compounds only.
Skin	Danger of cutaneous absorption.

8.2 Exposure controls

8.2.1. Appropriate engineering controls Use with ventilation, local exhaust ventilation or breathing protection. A washing facility/water for eye and skin cleaning purposes should be present.

8.2.2. Personal protection equipment



Eye Protection Wear protective eyewear (goggles, face shield, or safety glasses).



Skin protection Wear protective clothing and gloves: Impervious gloves.



Respiratory protection Wear suitable respiratory protection.



Thermal hazards Not applicable.



The Hoofcare Experts

SAFETY DATA SHEET

Keratex Hoof Hardener

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Opaque Liquid. Color : White.
Odor	Pungent.
Odor Threshold	Not established.
pH	>7
Melting Point/Freezing Point	Not available.
Initial boiling point and boiling range	100°C
Flash Point	Not available.
Evaporation Rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Not known.
Vapor pressure	40mm Hg
Vapor density	Not available.
Density (g/ml)	Not available.
Relative density	Not available.
Solubility(ies)	Solubility (Water) : Miscible. Solubility (Other) : Not known.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	Not available.
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

9.2 Other information

None.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical Stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid

Do not freeze.

10.5 Incompatible materials

Strongly acidic, Chlorohydrocarbons, Ordinary metals.

10.6 Hazardous decomposition products

No hazardous decomposition products known.



The Hoofcare Experts

SAFETY DATA SHEET
Keratex Hoof Hardener

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity - Ingestion	Harmful if swallowed. No data.
Acute toxicity - Skin Contact	Low acute toxicity.
Acute toxicity - Inhalation	Low acute toxicity.
Skin corrosion/irritation	Causes severe skin burns. No data.
Serious eye damage/irritation	Causes serious eye damage. No data.
Skin sensitization data	May cause an allergic skin reaction. No data.
Respiratory sensitization data	Not classified.
Germ cell mutagenicity	Suspected of causing genetic defects. No data.
Carcinogenicity	May cause cancer. No data.
Reproductive toxicity	No evidence of reproductive effects.
Lactation	Not classified.
STOT - single exposure	May cause damage to organs. May cause respiratory irritation. No data.
STOT - repeated exposure	None anticipated.
Aspiration hazard	Not classified.

11.2 Other information

Not known.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity - Aquatic invertebrates	Low toxicity to invertebrates.
Toxicity - Fish	Low toxicity to fish.
Toxicity - Algae	Low toxicity to algae.
Toxicity - Sediment Compartment	Not classified.
Toxicity - Terrestrial Compartment	Not classified.

12.2 Persistence and Degradation

The product is not biodegradable.

12.3 Bioaccumulative potential

The product has low potential for bioaccumulation.

12.4 Mobility in soil

Miscible with water. The product is predicted to have high mobility in soil.

12.5 Other adverse effects

Not known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of this material and its container as hazardous waste.

13.2 Additional Information

Disposal should be in accordance with local, state or national legislation.



The Hoofcare Experts

SAFETY DATA SHEET

Keratex Hoof Hardener

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

UN No. 1760

14.2 UN proper shipping name

UN proper shipping name CORROSIVE LIQUID, N.O.S. (Contains: Hydrochloric acid)

14.3 Transport hazard class(es)

ADR/RID

ADR/RID Class 8
ADR Classification Code C9
Special Provisions 274
Limited Quantities 5 L
Excepted Quantities E1
Emergency Action Code 2X
Mixed Packing Instructions for Packages P001 IBC03 LP01 R001
Mixed Packing Instructions for Packages MP19
Packing Instructions for Portable Tanks T7
Special Provisions for Portable Tanks TP1 TP28
Tank Code for Tanks L4BN
Vehicle for Tank Carriage AT
ADR Transport Category 3
Tunnel Restriction Code E
Special Provisions for Carriage - Packages V12
ADR HIN 80

IMDG

IMDG Class 8
Special Provisions 274
Limited Quantities 5 L
Excepted Quantities E1
Mixed Packing Instructions for Packages P001 IBC03 LP01 R001
Packing Instructions for Portable Tanks T7
Special Provisions for Portable Tanks TP1 TP28
IMDG EMS F-A, S-B
Stowage and Handling Category A SW2

ICAO/IATA

IATA Proper Shipping Name CORROSIVE LIQUID, N.O.S. (Contains: Hydrochloric acid)
Excepted Quantities E1
Passenger and Cargo Aircraft Limited Y841
Quantities Packing Instructions
Passenger and Cargo Aircraft Limited 1L
Quantities Max net Qty



The Hoofcare Experts

SAFETY DATA SHEET

Keratex Hoof Hardener

Passenger and Cargo Aircraft Packing Instructions	852
Passenger and Cargo Aircraft Max net Qty	5L
Cargo Aircraft Packing Instructions	856
Cargo Aircraft Max net Qty	60L
Special Provisions	A3, A803
Emergency Response Guidebook (ERG) Code	8L
Labels	8



14.4 Packing group

Packing group III

14.5 Environmental hazards

Environmental hazards Not classified as a Marine Pollutant.

14.6 Special precautions for user

Special precautions for user Not known.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Transport in bulk according to Annex II of Marpol and the IBC Code No information available

SECTION 15: REGULATORY INFORMATION

15.1 US Federal Regulations

Toxic and hazardous substances (29 CFR 1910; Subpart Z)	Listed : 56-81-5, 50-00-0, 67-56-1
National emission standards for hazardous air pollutants (40 CFR 61.01)	Not listed
SARA Title III Section 313	Not listed
TSCA (Toxic Substance Control Act)	Listed : 56-81-5, 50-00-0, 67-56-1
CAA 602 - Ozone Depleting Substances (ODS)	Not listed

15.2 US State Regulations

State Right to Know Lists	
Proposition 65 (California)	Listed : 50-00-0, 67-56-1
Minnesota	Listed : 56-81-5, 50-00-0, 67-56-1
New Jersey	Listed : 56-81-5, 50-00-0, 67-56-1
Pennsylvania	Listed : 56-81-5, 50-00-0, 67-56-1
Rhode Island	Listed : 56-81-5, 50-00-0, 67-56-1



SAFETY DATA SHEET
Keratex Hoof Hardener

15.3 Other

OSPAR List of Chemicals for Priority Action Not listed
OSHA (List of Highly Hazardous Chemicals, Toxics and Reactives) Listed : 50-00-0
NTP (National Toxicology Program) Listed : 50-00-0
IARC (International Agency for Research on Cancer) Listed : 50-00-0

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16

LEGEND

Hazard Pictogram(s)



GHS05



GHS08



GHS07

GHS02: GHS: flame
GHS06: GHS: skull and crossbones

Hazard Statement(s)

H225: Highly flammable liquid and vapor.
H290: May be corrosive to metals.
H301: Toxic if swallowed.
H302: Harmful if swallowed.
H311: Toxic in contact with skin.
H314: Causes severe skin burns and eye damage.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H331: Toxic if inhaled.
H335: May cause respiratory irritation.
H341: Suspected of causing genetic defects.
H350: May cause cancer.
H370: Causes damage to organs.
H371: May cause damage to organs.
HCS006: Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

Precautionary Statement(s)

P202: Do not handle until all safety precautions have been read and understood.
P264: Wash hands and exposed skin thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P271: Use only outdoors or in a well-ventilated area.



The Hoofcare Experts

SAFETY DATA SHEET

Keratex Hoof Hardener

P272: Contaminated work clothing must not be allowed out of the workplace.
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313: IF exposed or concerned: Get medical advice/attention.
P310: Immediately call a POISON CENTER/doctor.
P312: Call a POISON CENTER/doctor if you feel unwell.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P362+P364: Take off contaminated clothing and wash it before reuse.
P403+P233: Store in a well-ventilated place. Keep container tightly closed.
P405: Store locked up.
P501: Dispose of contents in accordance with local, state or national legislation.

Acronyms

ADN : European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS : Chemical Abstracts Service
IATA : International Air Transport Association
IBC : Intermediate Bulk Container
ICAO : International Civil Aviation Organization
IMDG : International Maritime Dangerous Goods
LTEL : Long Term Exposure Limit
RID : Regulations concerning the International Carriage of Dangerous Goods by Rail
STEL : Short Term Exposure Limit
STOT : Specific Target Organ Toxicity
UN : United Nations

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