Double Action

Material Safety Data Sheet

Preparation Date: 05-Dec-2007
Revision Date: 21-Feb-2013

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name Double Action
Item#: CAN1939
Recommended use Hoof Treatment

Supplier

DeLaval Inc.
150-B Jameson Drive
Peterborough, Ontario, K9J 0B9

Tel: (705) 741-3100

Emergency Telephone Number
(613) 996-6666 (Canutec)

2. HAZARDS IDENTIFICATION

Emergency Overview
Corrosive
The product causes burns of eyes, skin and mucous membranes

Principle Routes of Exposure
Eye contact
Skin contact
Ingestion
Inhalation

Eyes Corrosive to the eyes and may cause severe damage including blindness.
Skin Extremely corrosive and destructive to tissue.
Ingestion Ingestion causes burns of the upper digestive and respiratory tracts.
Inhalation Inhalation of mist causes irritation of respiratory system.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	OSHA PEL
Hydrochloric Acid	7647-01-0	1 - 5	Ceiling: 5 ppm Ceiling: 7 mg/m^3
Ethyl alcohol	64-17-5	1 - 5	TWA: 1000 ppm TWA: 1900 mg/m^3

4. FIRST AID MEASURES

Eye contact
- Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes
- Call a physician immediately

Skin contact
- Wash off immediately with plenty of water for at least 15 minutes
- Call a physician immediately

Ingestion
- Do not induce vomiting
- Drink 1 or 2 glasses of water
- Call a physician or Poison Control Centre immediately
- Never give anything by mouth to an unconscious person

Inhalation
- Move to fresh air
- If breathing is difficult, give oxygen
- If symptoms persist, call a physician

5. FIRE-FIGHTING MEASURES

Fire Hazard Heating can release vapours which can be ignited.

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Specific hazards arising from the chemical The product causes burns of eyes, skin and mucous membranes.

Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Health	Flammability	Instability
3	1	0

NFPA Special Hazard None

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Avoid contact with skin, eyes and clothing. Use personal protective equipment.

Environmental Precautions Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling Avoid contact with skin, eyes and clothing.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL
Hydrochloric Acid	Ceiling: 2 ppm	Ceiling: 5 ppm Ceiling: 7 mg/m^3
Ethyl alcohol	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m^3

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Eye/face Protection Goggles.

Skin Protection Rubber gloves, Long sleeved clothing, Chemical resistant apron

General Hygiene Considerations
Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Orange
Form Liquid
Specific Gravity 1.00
Water Solubility soluble
pH < 1
Freezing Point/Range -12 °C

10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions.

Incompatible Materials bases, organic materials, light metals, bleach

Possibility of hazardous reactions Gives off hydrogen by reaction with metals.

11. TOXICOLOGICAL INFORMATION

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrochloric Acid	700 mg/kg (rat)	5010 mg/kg (rabbit)	3124 ppm (Rat) 1 h
Ethyl alcohol	7060 mg/kg (rat)		124.7 mg/L (rat)

Carcinogenicity There are no known carcinogenic chemicals in this product

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Ethyl alcohol			EC50 = 34634 mg/L 30 min EC50 = 35470 mg/L 5 min	EC50 = 10800 mg/L 24 h EC50 = 9268 mg/L 48 h

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose of in accordance with local regulations. Should not be released into the environment.

Contaminated Packaging Empty containers should be taken for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION

UN-No 3264
Proper Shipping Name Corrosive liquid, acidic, inorganic, n.o.s (contains; Hydrochloric acid)
Hazard Class 8
Packing Group II

15. REGULATORY INFORMATION

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	CHINA	KECL	PICCS	AICS
Hydrochloric Acid	T	X		231-595-7		X	X	KE-20189	X	X
Ethyl alcohol	Present	X		200-578-6		X	X	KE-13217	X	X

USA

Federal Regulations

TSCA Complies

California Proposition 65

Chemical Name	CAS-No	Category	Type
Ethyl alcohol	64-17-5	Developmental	

State Right-to-Know

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Hydrochloric Acid	X	X	X	X	X
Ethyl alcohol	X	X	X		X

16. OTHER INFORMATION

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Disclaimer

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