

# **DeLaval Livestock** Marking Spray Green Preparation Date: 29-Aug-2019 Revisi

Revision Date: 29-Aug-2019

**Revision Number: 1** 

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

Product Identifier Product Name	DeLaval Livestock Marking Spray Green
Other means of identification Item#:	90696813
Synonyms	None
Recommended use of the chemica	I and restrictions on use
Recommended use	coloring agent
Uses advised against	All other
Details of the supplier of the safety	/ data sheet_
Supplier	
Canada	DeLaval Inc.
	PO Box 4600
	Peterborough, ON K9J 7B7 Tel: (705) 741-3100
	Tel. (705) 741-5100
United States	DeLaval Inc.
	11100 N. Congress Ave.
	Kansas City, MO 64153
	Tel: 816-891-7700, 8am – 5pm M-F
Emergency Telephone Number	
Canada	Canutec 1-613-996-6666
United States	Chemtrec 1-800-424-9300
	Onemileo 1-000-424-3300
	2. HAZARDS IDENTIFICATION

### Classification

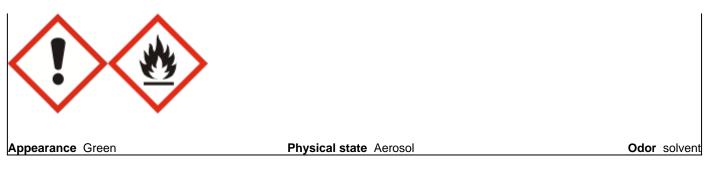
Serious eye damage/eye irritation	Category 2
Flammable aerosols	Category 1

## Label Elements

**Emergency Overview** 

# DANGER

Hazard Statements Causes serious eye irritation Extremely flammable aerosol



#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Keep away from heat/sparks/open flames/hot surfaces. — No smoking Pressurized container: Do not pierce or burn, even after use Do not spray on an open flame or other ignition source

#### Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### **Precautionary Statements - Storage**

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight-%
Ethyl alcohol	64-17-5	70 - 80
Butane (containing < 0.1% butadiene (203-450-8))	106-97-8	20 - 30
Pentane	109-66-0	<1

If a concentration range is shown, the exact concentration has been withheld as a trade secret.

# 4. FIRST AID MEASURES

#### **Description of first-aid measures**

General Advice	Get medical attention if symptoms occur. Show this safety data sheet to the doctor in attendance.
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, consult a specialist.
Skin contact	Wash off immediately with soap and plenty of water.
Inhalation	Move to fresh air. Remove from exposure, lie down.
Ingestion	Drink plenty of water. If possible drink milk afterwards. Do not induce vomiting.

#### Most important symptoms and effects, both acute and delayed

Irritating to eyes. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Ingestion may cause irritation to mucous membranes. Repeated exposure may cause skin dryness or cracking.

#### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

# **5. FIRE-FIGHTING MEASURES**

#### Suitable Extinguishing Media

Foam. Carbon dioxide (CO2). Dry powder.

#### **Unsuitable Extinguishing Media**

No information available.

#### Specific hazards arising from the chemical

Heating of containers may cause pressure rise, with risk of bursting. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Extremely flammable. In the event of fire and/or explosion do not breathe fumes.

Sensitivity to static discharge None.

#### **Protective Equipment and Precautions for Firefighters**

Personal protective equipment. In the event of fire, wear self-contained breathing apparatus. In the event of fire and/or explosion do not breathe fumes. Do not breathe vapours.

NFPA

Health hazards 1

Flammability 4 Instability 0

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. For personal protection see section 8.

Environmental Precautions

Do not flush into surface water or sanitary sewer system.

#### Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

# 7. HANDLING AND STORAGE

#### Precautions for Safe Handling

Handling

Storage

Keep away from open flames, hot surfaces and sources of ignition. Remove all sources of ignition. Protect from sunlight and do not expose to temperatures exceeding 50 °C/122 °F. Avoid breathing vapors or mists. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

Conditions for safe storage, including any incompatibilities

Pressurized container. Keep away from direct sunlight. Keep at temperature not exceeding 50°C. Keep in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Keep away from open flames, hot surfaces and sources of ignition. Keep out of the reach of children. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

**Incompatible Materials** 

No materials to be especially mentioned

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Only constituents with exposure limits are listed. Any constituent not listed has no known exposure limit.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethyl alcohol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m³	3300 ppm
Butane (containing < 0.1% butadiene (203-450-8)) 106-97-8	STEL: 1000 ppm	TWA: 800 ppm TWA: 1900 mg/m <sup>3</sup>	1600 ppm
Pentane 109-66-0	TWA: 1000 ppm	TWA: 600 ppm TWA: 1800 mg/m <sup>3</sup> STEL: 750 ppm STEL: 2250 mg/m <sup>3</sup> TWA: 1000 ppm TWA: 2950 mg/m <sup>3</sup>	1500 ppm

#### Appropriate engineering controls

Engineering Controls	Ensure adequate ventilation, especially in confined areas.	
Individual protection measures, su	ch as personal protective equipment	
Eye/face Protection	If splashes are likely to occur, wear: Wear eye/face protection. Eye wash bottle with pure water.	
Skin and body protection	If splashes are likely to occur, wear: Protective gloves. nitrile rubber. (1 - 4 H). butyl-rubber. Neoprene gloves. Viton (R). Polyethylene/ethylenevinyl alcohol (PE/EVOH). (4 - 8H).	
<b>Respiratory Protection</b>	In case of inadequate ventilation wear respiratory protection. Cartridge A2. Filter type P3.	
General Hygiene Considerations	Wash hands before breaks and immediately after handling the product.	

# 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state Appearance	Aerosol Green	Odor Odor Threshold	solvent No information available
Property pH Melting point/freezing point Boiling Point/Range Flash Point Evaporation rate Flammability (solid, gas) Flammability Limit in Air Upper flammability limit Lower flammability limit Vapor Pressure Vapor Density Specific Gravity Water Solubility	ValuesNo information availableNo information availableNo information available< 0 °CNo information availableNo infor	<u>Remarks/ Method</u>	
Partition coefficient: n-octanol/water Autoignition Temperature Decomposition temperature Viscosity of Product Dynamic viscosity Explosive Properties			

#### **Oxidizing Properties**

No information available

#### **Other information**

Liquid Density VOC Content No information available Max. 670 g/l

# **10. STABILITY AND REACTIVITY**

# Reactivity

None known.

#### Chemical Stability

Stable under recommended storage conditions.

#### Possibility of hazardous reactions

None under normal use.

#### Conditions to Avoid

Temperatures above 50°C. Extremes of temperature and direct sunlight.

#### Incompatible Materials

No materials to be especially mentioned

#### Hazardous decomposition products

None under normal use.

# **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

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Eyes	May cause eye irritation.
Skin	May cause slight irritation. Repeated exposure may cause skin dryness or cracking.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Inhalation	May irritate nose, throat, and respiratory tracts.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure\_

Irritation	Irritating to eyes. May cause irritation of the mucous membranes. May cause slight irritation.
Sensitization Mutagenic effects	No information available. Contains no ingredient listed as a mutagen.
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Ethyl alcohol	A3	Group 1	Known	Х
64-17-5				

Legend:

ACGIH (American Conference of Governmental Industrial Hygienists) A3 - Confirmed animal carcinogen with unknown relevance to humans IARC (International Agency for Research on Cancer) Group 1 - Carcinogenic to Humans NTP (National Toxicology Program) Known - Known Carcinogen OSHA (Occupational Safety and Health Administration of the US Department of Labor) X - Present

Reproductive Effects STOT - single exposure STOT - repeated exposure Aspiration Hazard None known. No information available. No information available. No information available.

### Numerical measures of toxicity

If available, toxicity values of individual components are shown below.

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethyl alcohol	= 7060 mg/kg (Rat)	>20000 mg/kg (rabbit)	124.7 mg/L (rat)
64-17-5			
Butane (containing < 0.1%	No data available	No data available	= 658 g/m³ (Rat)4 h
butadiene (203-450-8))			
106-97-8			
Pentane	> 2000 mg/kg (Rat)	= 3000 mg/kg (Rabbit)	= 364 g/m <sup>3</sup> (Rat) 4 h
109-66-0			

0% of the mixture consists of ingredient(s) of unknown toxicity

# **12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

If available, ecotoxicity values of individual components are shown below.

Chemical name	Algae/aquatic plants	Fish	Microtox	Waterflea
Ethyl alcohol	No data available	100: 96 h Pimephales	EC50 = 34634 mg/L 30 min	10800: 24 h Daphnia magna
64-17-5		promelas mg/L LC50 static 12.0 - 16.0: 96 h	EC50 = 35470 mg/L 5 min	mg/L EC50 2: 48 h Daphnia
				magna mg/L EC50 Static
		Oncorhynchus mykiss mL/L		9268 - 14221: 48 h Daphnia
		LC50 static 13400 - 15100:		magna mg/L LC50
		96 h Pimephales promelas		
		mg/L LC50 flow-through		
Pentane	No data available	9.99: 96 h Lepomis	No data available	9.74: 48 h Daphnia magna
109-66-0		macrochirus mg/L LC50		mg/L EC50
		9.87: 96 h Oncorhynchus		_
		mykiss mg/L LC50 11.59: 96		
		h Pimephales promelas		
		mg/L LC50		

Persistence and degradability Propane, butane: readily biodegradable.

#### **Bioaccumulation/Accumulation**

No information available.

#### Other adverse effects

No information available

# **13. DISPOSAL CONSIDERATIONS**

Waste treatment methods	
Waste Disposal Method	Contact your local waste disposal authority for advice, or pass to a chemical disposal company.
Contaminated Packaging	Empty containers should be taken for local recycling, recovery or waste disposal. Dispose of in accordance with local regulations.

# **14. TRANSPORT INFORMATION**

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UN-No	1950
Proper Shipping Name	Aerosols
Hazard Class	2.1

**Packing Group** 

Not regulated

# **15. REGULATORY INFORMATION**

#### California Proposition 65

The list of Proposition 65 chemicals lists "Ethyl alcohol in alcoholic beverages" and is intended to cover only that use of Ethyl Alcohol.

State Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Ethyl alcohol 64-17-5	Х	X	Х
Butane (containing < 0.1% butadiene (203-450-8)) 106-97-8	x	x	Х
Pentane 109-66-0	Х	X	Х

#### U.S. EPA Label information

EPA Pesticide registration number Not applicable

# **16. OTHER INFORMATION**

Preparation Date:	29-Aug-2019
Revision Date:	29-Aug-2019
Revision Note:	None
Disclaimor	

**Disclaimer** 

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of SDS