SECTION 1: IDENTIFICATION	
1.1 Product identifier	
Product name:	MalAcetic Spray Conditioner
Synonyms:	None
Proper Shipping name:	Not applicable
Other means of identification:	None
1.2 Relevant identified uses of the substances or mixture and uses advised against	
Recommended uses:	Conditioner for dogs, cats and horses
Uses advised against:	Not for human use.
1.3 Details of the supplier of the substance or mixture	
Registered company name (US):	Dechra Veterinary Products LLC
Address:	7015 College Blvd Suite 525 Overland Park KS 66211 USA
Telephone:	+1 (866) 933 2472
Fax:	Not available
Website:	www.dechra.com
Email:	Not available
Distributor name (Canada):	Dechra Veterinary Products
Address:	1 Holiday Ave, East Tower, Suite 345 Pointe-Claire, QC H9R 5N3 Canada
Telephone:	+1 (855) 332 9334
Website:	www.dechra.ca
Email:	Not Available
1.4 Emergency Telephone Numbers	
Dechra (US):	+1 (866) 933 2472
Dechra (CA):	+1 (855) 332 9334

SECTION 2: HAZARDS IDENTIFICATION	
2.1 Classification of the substance or mixture NFPA 704 Diamond  	
2.2 Label Elements	
Hazard Pictogram:	Not applicable
Signal Word:	Not applicable
Hazard statement(s):	
H402 Harmful to aquatic life with long lasting effects	
Supplementary Statement(s) EU:	
	Not applicable
Precautionary Statement(s) Prevention:	
	P273 Avoid release to the environment
Precautionary Statement(s) Response:	
	Not applicable
Precautionary Statement(s) Storage:	
	Not applicable.
Precautionary Statement(s) Disposal:	
	P501 Dispose of contents/ container in accordance with local regulations
2.3 Other Hazard Information Not applicable.	

SECTION 3: INFORMATION ON THE INGREDIENTS

3.1 Substances

See section below for composition of mixtures

3.2 Mixtures

1. CAS No 2. EC Number 3. Index Number 4. REACH Number	% Weight	Name
56-81-5	1-10	glycerol
64-19-7	1-10	Acetic acid glacial
10043-35-3	1-10	Boric acid
16485-10-2	<1	di-panthenol
112-02-7	<1	Cetyltrimethylammonium chloride
1330-43-4	<1	Sodium borate anhydrous (Na2B4O7)
2682-20-4	<0.01	2-methyl-4-isothiazolin-3-one
Other ingredients	Not indicated	Ingredients determined not to be hazardous

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact:	Accidental spillage on the eyes should be washed off with plenty of water. If pain or irritation occurs, seek medical advice and show the package leaflet or the label to the medical practitioner.
Skin contact:	Accidental spillage on the skin should be washed off with plenty of water. If irritation occurs, seek medical advice and show the package leaflet or the label to the medical practitioner.
Inhalation:	Inhalation is highly unlikely due to the nature of the product and how it is packaged and administered. If irritation or difficulty in breathing occurs, seek urgent medical advice and show the package leaflet or the label to the medical practitioner. Remove the patient from the contaminated area. Lay the patient down, keep warm and rested.
Ingestion:	Ingestion is highly unlikely due to the nature of the product and how it is packaged and administered. If swallowed, seek medical advice and show the package leaflet or the label to the medical practitioner. Remove material and give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.

4.2 Most important symptoms and effects, both acute and delayed	
Eye contact:	Not expected to cause any eye irritation.
Skin contact:	Not expected to cause any skin irritation.
Ingestion:	May cause discomfort, nausea and vomiting if ingested in large quantities
See Section 11 for more detailed information	
4.3 Indication of immediate medical attention and special treatment needed Treat symptomatically.	

SECTION 5: FIRE FIGHTING MEASURES	
5.1 Extinguishing media	
Suitable:	Select extinguishing media suitable for surrounding area
Unsuitable:	There is no restriction on the type of extinguisher which may be used
5.2 Special hazards arising from the substance or mixture	
Fire incompatibility:	None known
5.3 Special protective actions for fire-fighters:	
Firefighting:	Use water delivered as a fine spray to control fire and cool adjacent area. **Do not** approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use.
Fire / explosion hazard:	Extremely high temperatures such as encountered in a fire may produce hazardous fumes.

SECTION 6: ACCIDENTAL RELEASE MEASURES	
6.1 Personal precautions, protective equipment and emergency procedures	
For information on protective equipment, see section 8	
6.2 Environmental Precautions	
See section 12	
6.3 Methods and material for containment and cleaning up Spills are unlikely due to the nature of the product and how it is packaged	
Minor Spills:	Small spills should be cleaned up and placed in a closed container for

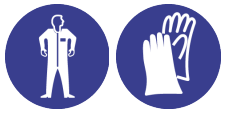
	disposal.
Major Spills:	Large spills should be diked and contained and then absorbed with no reactive materials and place in disposal drums.

SECTION 7: HANDLING AND STORAGE	
7.1 Precautions for safe handling	
Safe Handling:	Always wash hands with water after handling. Observe manufacturer's storage and handling recommendations.
Other Information:	Store at room temperature Keep out of the reach and sight of children.
7.2 Conditions for safe storage, including any incompatibilities	
Suitable Container:	8 fl oz. bottle, 16 fl oz. bottle
Storage incompatibility:	No known incompatibilities.
7.3 Specific end uses	
Not available	

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION				
8.1 Control parameters				
DERIVED NO EFFECT LEVEL – DNEL (EU)				
Not Available				
PREDICTED NO EFFECT LEVEL – PNEC (EU)				
Not Available				
OCCUPATIONAL EXPOSURE LIMITS (OEL)				
INGREDIENT DATA				
Not Available				
EMERGENCY LIMITS (EU/US):				
Ingredient	**Material Name**	**TEEL-1**	**TEEL-2**	**TEEL-3**
glycerol	Glycerine, glycerol	45 mg/m3	860 mg/m3	2500 mg/m3
Boric acid	Boric acid	6 mg/m3	23 mg/m3	830 mg/m3

Cetyltrimethylammonium chloride	Hexadecyltrimethylammonium chloride	1.1 mg/m3	12 mg/m3	70 mg/m3
Sodium borate anhydrous (Na2B4O7)	Sodium borate, sodium borate decahydrate	6 mg/m3	190 mg/m3, 88 mg/m3	1100 mg/m3, 530 mg/m3

Ingredient	**Original IDLH**	**Revised IDLH**
Acetic acid	50 ppm	Not Available

8.2 Exposure controls	
Appropriate engineering controls:	The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the particular risk.
Personal protection:	
Eye and face protection:	Not required
Skin protection:	See hand protection below
Hands/ feet protection:	No special equipment needed when handling small quantities. OTHERWISE: Wear chemical protective gloves
Body protection:	Wear appropriate clothing
Other protection:	No special equipment needed when handling small quantities
Thermal hazards:	Not applicable
Respiratory protection:	Not applicable
8.3 Environmental exposure controls See Section 12	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES
9.1 Information on basic physical and chemical properties
Appearance: Clear colourless viscous liquid **Container:** 8 fl. oz bottle, 16 fl. oz bottle **Physical state:** Liquid **Odour:** characteristic acetic/ cherry blossom odour **Melting point / freezing point (degrees C):** Not applicable **Initial boiling point and boiling range:** 100^{O}C **Flash Point:** Not applicable **Evaporation rate** Not applicable **Flammability:** Not available **Upper/lower flammability or explosive limits:** Not available **Vapour pressure:** Not applicable **Specific Gravity:** Not available **Solubility in water and solvents (mg/l):** Miscible in water **Auto ignition temperature (degrees C):** Not available **Decomposition temperature (degrees C):** Not available **Viscosity: (degrees C):** Not available **Explosive properties:** Not available **Oxidising properties:** Not available **Partition Coefficient:** Not available **Taste:** Not applicable **Surface tension:** Not available **Volatile component:** Not available **Gas group:** Not applicable **pH:** 4.5-5.5 **VOC g/L:** Not applicable
9.2 Other information Not Available

SECTION 10: STABILITY AND REACTIVITY	
10.1 Reactivity:	See Section 7.
10.2 Chemical stability:	Product is considered stable. Hazardous polymerisation will not occur.
10.3 Possibility of hazardous reactions:	The product is not considered to be hazardous if used as per instructions. Hazardous polymerisation will not occur.
10.4 Conditions to avoid:	Protect from light.
10.5 Incompatible materials:	See section 7.
10.6 Hazardous decomposition:	See Section 5.

SECTION 11: TOXICOLOGICAL INFORMATION		
Inhalation:	Not expected to cause any irritation of the respiratory tract	
Ingestion:	May cause discomfort, nausea and vomiting if ingested in large quantities	
Skin contact:	Not expected to cause skin irritation and inflammation	
Eye contact:	Not expected to cause eye irritation	
Chronic:	Due to the nature of the product, not expected to cause any chronic effects	
MalAcetic Spray Conditioner:	**Toxicity**	**Irritation**
	Not available	Not available
glycerol	**Toxicity**	**Irritation**
	Oral (rat) LD50: >10000 mg/kg[2]	Not available
Acetic acid glacial	**Toxicity**	**Irritation**
	Oral (rat) LD50: 2000 mg/kg[2]	Eye (rabbit) 0.05 mg (open):Severe Skin (rabbit) 525 mg (open): Severe Skin (human) 50mg/24hr - mild
Boric acid	**Toxicity**	**Irritation**
	dermal (rabbit) LD50: >2000 mg/kg[2] Oral (rat) LD50: 2500 mg/kg[2]	Skin (human): 15 mg/3d - mild
di-panthenol	**Toxicity**	**Irritation**
	Dermal (rat) LD50: >2000 mg/kg[1] Oral (rat) LD50: >2000 mg/kg[2]	Eye 0.5mg & skin 500 mg/4h (rabbit): mild
Sodium borate anhydrous (Na2B4O7)	**Toxicity**	**Irritation**
	Dermal (rabbit) LD50: >2000 mg/kg [2] Oral (rat) LD50: >250 mg/kg [1]	Eye: irritating [1]
Cetyltrimethly-ammonium chloride	**Toxicity**	**Irritation**
	dermal (rat) LD50: >2008 mg/kg[2] Oral (rat) LD50: >250 mg/kg[2]	Eye: adverse effect observed (irritating)[1] Skin: no adverse effect observed (not irritating)[1]

2-methyl-4-isothiazolin-3-one	Toxicity	Irritation
	dermal (rat) LD50: 242 mg/kg[1] Oral (rat) LD50: 120 mg/kg[1]	Eye: adverse effect observed (irreversible damage)[1] Skin: adverse effect observed (corrosive)[1]

1. Value obtained from manufacturer's SDS. Unless otherwise specified, data extracted from RTECS - Register of Toxic Effect of chemical Substances*
Skin corrosion/irritation:
Not expected to cause any skin corrosion/ irritation.
Serious eye damage/irritation:
Not expected to cause eye damage / irritation
Respiratory or skin sensitization:
Not expected to be a respiratory or skin sensitization.
Germ cell mutagenicity:
Not available
Carcinogenicity:
Not expected to be carcinogenic.
Reproductive toxicity:
Not expected to cause reproductive effects
STOT – single exposure:
Not available
STOT–repeated exposure:
Not available
Aspiration hazard:
Not available

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Ingredient	Endpoint	Test duration (hr)	Species	Value	Source
MalAcetic Spray Conditioner	Not available	Not available	Not available	Not available	Not available
glycerol	LC50 EC50	96 96	Fish Algae or other aquatic plants	>0.011 mg/l 77712.039 mg/l	2 3
Acetic acid glacial	LC50 EC50 EC50 NOEC	96 48 72 72	Fish Crustacea Algae or other aquatic plants Algae or other aquatic plants	>1 mg/l >1 mg/l >1 mg/l 1 mg/l	2 2 2 2
Boric acid	LC50 EC50 EC50 NOEC	96 48 96 768	Fish Crustacea Algae or other aquatic plants Fish	74 mg/l 133 mg/l 15.4 mg/l 0.009 mg/l	2 4 2 2
Di-panthenol	LC50 EC50 EC50 NOEC	96 48 72 72	Fish Crustacea Algae or other aquatic plants Algae or other aquatic plants	>100mg/l >100mg/l >100mg/l >=100mgl	2 2 2 2
Sodium borate anhydrous (Na2B4O7)	LC50 EC50 NOEC	96 96 768	Fish Algae or other aquatic plants Fish	74 mg/l 15.4 mg/l 0.009 mg/l	2 4 2
Cetyltrimethyl-ammonium chloride	LC50 EC50 EC50 NOEC	96 48 72 504	Fish Crustacea Algae or other aquatic plants Crustacea	0.1 mg/l 0.067 mg/l 0.05 mg/l 0.0068 mg/l	4 5 2 2

2-methyl-4-isothiazolin-3-one	LC50 EC50 EC50 EC10 NOEC	96 48 72 72 96	Fish Crustacea Algae or other aquatic plants Algae or other aquatic plants Algae or other aquatic plants	0.07 mg/l 0.18 mg/l 0.05 mg/l 0.0346 mg/l 0.01 mg/l	4 4 4 2 2

DO NOT discharge into sewer or waterways.

12.2 Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
Glycerol	LOW	LOW
Acetic acid glacial	LOW	LOW
Boric acid	LOW	LOW
2-methyl-4-isothiazolin-3-one	HIGH	HIGH

12.3 Bioaccumulative potential

Ingredient	Bioaccumulative Potential
Glycerol	LOW (LogKOW = -1.76)
Acetic acid glacial	LOW (LogKOW = -0.17)
Boric acid	LOW (BCF = 0)
2-methyl-4-isothiazolin-3-one	LOW (LogKOW = -0.8767)

12.4 Mobility in Soil

Ingredient	Mobility
Glycerol	HIGH (KOC = 1)
Acetic acid glacial	HIGH (KOC = 1)
Boric acid	LOW (KOC = 35.04)
2-methyl-4-isothiazolin-3-one	LOW (KOC = 27.88)

12.5 Results of PBT and vPvB assessment
Not Available

12.6 Other adverse effects
Not Available

SECTION 13: DISPOSAL CONSIDERATIONS	
13.1 Waste treatment methods	
Product / packaging disposal:	Any unused veterinary medicinal product or waste material derived from such veterinary medicinal products should be disposed of in accordance with national requirements. Legislation addressing waste disposal requirements may differ by country, state and/or territory. Each user must refer to laws operating in their area. Recycle wherever possible or consult manufacturer for recycling options. Consult State Land Waste Management Authority for disposal. Bury residue in an authorised landfill. Recycle containers if possible, or dispose of in an authorised landfill. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate. Where in doubt contact the responsible authority. Ensure that the disposal of material is carried out in accordance with Hazardous Products Regulations (Canada, 2015).
Waste Treatment Options:	Not Available
Sewage Disposal Options:	Not Available

SECTION 14: TRANSPORT INFORMATION	
Labels required:	
Marine pollutant:	NO
Land transport (US: DOT / TDG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS	
Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS	
Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS	
Transport in bulk according to Annex II of MARPOL and the IBC code: Not applicable	

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture

GLYCEROL IS FOUND IN THE FOLLOWING REGULATORY LISTS:
USA: GESAMP/EHS / IMO IBC / IMO MARPOL / TEELs / RELs / TSCA
Canada: DSL/ GESAMP/EHS / IMO IBC / IMO MARPOL

ACETIC ACID GLACIAL IS FOUND IN THE FOLLOWING REGULATORY LISTS:
USA: GESAMP/EHS / IMO IBC / IMO MARPOL / IATA / IMDG Code / DOT / USPS / TSCA / WEELs / RELs / PELs
Canada: DSL/ WHMIS GHS / GESAMP/EHS / IMO IBC / IMO MARPOL / IATA / IMDG Code

BORIC ACID IS FOUND IN THE FOLLOWING REGULATORY LISTS:
USA: GESAMP/EHS / IATA / TLV/ WEELs / TEELs / STCA / USPS
Canada: DSL/ GESAMP/EHS / IATA / WHMIS GHS

DI-PANTHENOL IS FOUND IN THE FOLLOWING REGULATORY LISTS:
USA: TSCA
Canada: DSL

CETYLTRIMETHYLAMMONIUM CHLORIDE IS FOUND IN THE FOLLOWING REGULATORY LISTS:
USA: IATA / IMDG Code / DOT / TEELs/ USPS / TSCA
Canada: DSL/ IATA / IMDG Code

SODIUM BORATE ANYDROUS IS FOUND IN THE FOLLOWING REGULATORY LISTS:
USA: GESAMP/EHS / PELs / TLV / WEELs / TEELs/ RELs/ TSCA
Canada: DSL/ WHMIS GHS / IATA / GESAMP/EHS

2-METHYL-4-ISOTHIAZOLIN-3-ONE IS FOUND IN ANY REGULATORY LISTS:
USA: IATA / IMDG Code / DOT / USPS / TSCA
Canada: DSL/ IATA / IMDG Code

FEDERAL REGULATIONS:	
Superfund Amendments and Reauthorization Act of 1986 (SARA)	
Section 311/312 Hazard Categories	
Immediate (acute) health hazard	NO
Delayed (chronic) health hazard	NO
Fire hazard	NO
Pressure hazard	NO
Reactivity hazard	NO

US. EPA Cercla Hazardous Substances and Reportable Quantities (40 CFR 302.4) None reported
STATE REGULATIONS:
US. CALIFORNIA PROPOSITION 65 None reported

National Inventory	**Status**
Australia - AICS	Yes
Canada - DSL	Yes
Canada - NDSL	No (di-panthenol, glycerol, cetlytrimethlyammonium chloride, acetic acid glacial, boric acid)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	No (cetylmethylammonium chloride)
Korea - KECI	No (di-panthenol)
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan – TCSI	Yes
Mexico – INSQ	Yes
Vietnam – NCI	Yes
Russia – ARIPS	No (di-panthenol, cetylmethylammonium chloride)
Legend:	*Y = All ingredients are on the inventory* *N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing (see specific ingredients in brackets)*

SECTION 16: OTHER INFORMATION

The SDS is written in accordance to guidelines specified by REACH, GHS, WHMIS and OSHA.

Definitions and abbreviations

PC—TWA: Permissible Concentration-Time Weighted Average
PC—STEL: Permissible Concentration-Short Term Exposure Limit
STEL: Short Term Exposure Limit
TEEL: Temporary Emergency Exposure Limit
IDLH: Immediately Dangerous to Life or Health Concentrations

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