SECTION 1: IDENTIFICATION	
1.1 Product identifier	
Product name:	CycloSpray® 2.45% cutaneous spray, suspension
Synonyms:	Also known as CTC-Spray
Proper Shipping name:	AEROSOLS, limited quantities not exceeding 1 L capacity.
Other means of identification:	None
1.2 Relevant identified uses of the substances or mixture and uses advised against	
Recommended uses:	Cutaneous spray for supportive treatment of infections of superficial traumatic origin or surgical wounds caused by micro-organisms sensitive to chlortetracycline.
Uses advised against:	Not for human use. **This product is stored in a pressurized container and is highly flammable; take care not to pierce, burn or spray on humans.**
1.3 Details of the supplier of the substance or mixture	
Registered company name:	Dechra Regulatory BV
Address:	Handelsweg 25 5531 AE Bladel The Netherlands
Telephone:	+31 (0) 497 544 300
Fax:	+31 (0) 497 544 302
Website:	www.dechra.com
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	
The Netherlands :	+31 (0) 497 544 300
Canada :	1 855 332-9334

SECTION 2: HAZARDS IDENTIFICATION	
2.1 Classification of the substance or mixture **This product is exempted from Regulation according to article 1(5) of Reg. (EC) No 1272/2008 and their amendments, because it is a veterinary medicinal product as defined in Directive 2001/82/EC, which is in the finished state, intended for the final user.**	
Classification according to regulation (EC) No 1272/2008 [CLP] (EU):	Extremely flammable aerosol. Pressurized container, may burst if heated. May cause serious eye irritation. May cause drowsiness or dizziness. Harmful to aquatic life with ling lasting effects.
2.2 Label Elements	
GHS Label Elements:	
Signal Word:	DANGER
Hazard statement(s):	
H222+ H229	**Extremely flammable aerosol. Pressurized container: May burst if heated.**
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with ling lasting effects.
Supplementary statement(s):	
EUH044	Risk of explosion if heated under confinement.
Precautionary Statement(s) Prevention:	
P210	**Keep away from heat//hot surfaces sparks/open flames and other ignition sources. No smoking.**
P211	**Do not spray on an open flame or other ignition source.**
P251	**Do not pierce or burn, even after use.**
P271	Use only outdoors or in a well-ventilated area.
Precautionary Statement(s) Response:	
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER or a doctor/physician if you feel unwell.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Precautionary Statement(s) Storage:	
P405	Store locked up.

P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
Precautionary Statement(s) Disposal:	
P501	Dispose of contents/container in accordance with local
	regulations.

2.3 Other Hazard Information
Inhalation, skin contact and/or ingestion may produce health damage*.
Cumulative effects may result following exposure*.
May produce discomfort of the respiratory system and skin*.

Repeated exposure potentially causes skin dryness and cracking*.
.
Isopropanol Listed in the Europe Regulation (EC) No 1907-2006 Annex XVII (restrictions may apply)

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**	**Classification according to regulations (EC) No 1272/2008 [CLP]**
167-63-0 2. 200-661-7 3. 603-117-00-0 4. 01-2119457558-25-XXXX[01-2120063207-61-XXXX	10-30	Isopropanol	Flammable Liquid Category 2, Specific target organ toxicity - single exposure Category 3 (narcotic effects), Eye Irritation Category 2; H225, H336, H319 [2]
1. 64-72-2 2. 200-591-7 3. Not Available 4. Not Available	1-10	Chlortetracycline Hydrochloride	Skin Corrosion/Irritation Category 2, Reproductive Toxicity Category 2, Eye Irritation Category 2, Chronic Aquatic Hazard Category 1, Specific target organ toxicity - single exposure Category 3 (respiratory tract irritation); H315, H361d, H319, H410, H335
1. Not Available 2. Not Available 3. Not Available 4. Not Available	<1	Additives	Not applicable

1. 68476-85-7 2. 270-704-2|270-705-8 3. 649-202-00-6|649-203-00-1 4. 01-2119485911-31-XXXX|01-2119490743-31-XXXX	>60	Hydrocarbon propellant (Butane)	Gas under Pressure (Liquefied gas); Flammable Gas Category 1; H220, H280, EUH044
Legend:	*2. Classification drawn from Regulation (EU) 1272/2008 – Annex VI; 3. Classification drawn from C&L*		

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact:	In case of accidental spillage onto eyes, immediately flush with water for at least 15 minutes. If irritation or swelling of eyes occurs, seek urgent medical advice and show the package leaflet or the label to the medical practitioner.
Skin contact:	Direct contact with the skin should be avoided because of sensitisation, contact dermatitis and possible hypersensitivity reactions to chlortetracycline. In the event of irritation, seek medical advice.
Inhalation:	If aerosols, fumes or combustion products are inhaled, remove the patient from the contaminated area to fresh air. Lay the patient down, keep warm and rested. If breathing is shallow or has stopped, ensure clear airway and apply resuscitation, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor.
Ingestion:	If swallowed, avoid giving milk or oils. Avoid giving alcohol. Not considered a normal route of entry.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11

4.3 Indication of immediate medical attention and special treatment needed

treat symptomatically

SECTION 5: FIRE FIGHTING MEASURES	
5.1 Extinguishing media	
Suitable:	Small Fire: Water spray, dry chemical or CO2 Large Fire: Water spray or fog
Unsuitable:	Foam / wet chemical
5.2 Special hazards arising from the substance or mixture	
Fire incompatibility:	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result.
5.3 Special protective actions for fire-fighters:	
Firefighting:	Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. **DO NOT** approach containers suspected to be hot.
Fire / explosion hazard:	Liquid and vapour are highly flammable. **Highly flammable aerosol. Pressurised container may burst if heated.** Vapour forms an explosive mixture with air. **Severe explosion hazard, in the form of vapour, when exposed to flame or spark.**

SECTION 6: ACCIDENTAL RELEASE MEASURES	
6.1 Personal precautions, protective equipment and emergency procedures	
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:	Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Wear impermeable gloves. Protect the eyes and face Shut off all possible sources of ignition and increase ventilation. Wipe up. If safe, damaged cans should be placed in a container outdoors, away from all ignition sources, until pressure has dissipated.

Major Spills:	Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. **May be violently or explosively reactive.** Wear breathing apparatus plus protective gloves. Contain and absorb spill with sand, earth, inert material or vermiculite. Prevent, by any means available, spillage from entering drains or water course.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Safe Handling:	Because of the risk of sensitisation and contact dermatitis, skin contact should be avoided. Wear appropriate impermeable gloves whilst handling the product. Because of risk of eye irritation, contact with the eyes should be avoided. Protect the eyes and face. DO NOT spray on an open flame or other ignition source. DO NOT pierce or burn, even after use. Avoid inhaling vapours. Apply the product in open air or in sufficiently ventilated area. Wash hands after use. DO NOT eat or smoke whilst administering the product.
Other Information:	Do not store above 50ºC. Keep out of the reach and sight of children.

7.2 Conditions for safe storage, including any incompatibilities

Suitable Container:	270 ml or 520ml pressurised container of coated tin plate with a plastic valve mechanism and spraying nozzle.
Storage incompatibility:	Alcohols are incompatible with strong acids, acid chlorides, acid anhydrides, oxidising and reducing agents. **Reacts, possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen.** Reacts with strong caustics, aliphatic amines, isocyanates, acetaldehyde, benzoyl peroxide, chromic acid, chromium oxide, dialkylzincs, dichlorine oxide, ethylene oxide, hypochlorous acid, isopropyl chlorocarbonate, lithium tetrahydroaluminate, nitrogen dioxide, pentafluoroguanidine, phosphorus halides, phosphorus pentasulfide, tangerine oil, triethylaluminium and triisobutylaluminium. Should not be heated Secondary alcohols and some branched primary alcohols may produce potentially explosive peroxides after exposure to light and/ or heat.

Other information	Keep dry to avoid corrosion of cans. Corrosion may result in container perforation and internal pressure may eject contents of can.Store in original containers in approved flammable liquid storage area.DO NOT store in pits, depressions, basements or areas where vapours may be trapped. No smoking, naked lights, heat or ignition sources. Keep containers securely sealed

7.3 Specific end uses

Not available

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

DERIVED NO EFFECT LEVEL - DNEL

Not Available

PREDICTED NO EFFECT LEVEL - PNEC

Not Available

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA:

Source	Ingredient	Material Name	TWA	STEL	Peak	Notes
UK Workplace Exposure Limits (WELs)	Isopropanol	Propan-2-ol	999 mg/m^3 / 400 ppm	1250 mg/m^3 / 500 ppm	Not Available	Not Available
UK Workplace Exposure Limits (WELs)	Hydrocarbon propellant (butane)	Hydrocarbon propellant (butane)	1750 mg/m^3 / 1000 ppm	2180 mg/m^3 / 1250 ppm	Not Available	Carc, (only applies if contains more than 0.1% of buta-1,3-diene)

EMERGENCY LIMITS

Ingredient	Material Name	TEEL-1	TEEL-2	TEEL-3
Chlortetracycline HCl	Not Available	Not Available	Not Available	Not Available
Isopropanol	Isopropanol	400 ppm	2000 ppm	12,000 ppm
Hydrocarbon propellant (butane)	Hydrocarbon propellant	65,000 ppm	2.30E+5 ppm	4.00E+5 ppm

	(butane)			

Ingredient	Original IDLH	Revised IDLH
Chlortetracycline HCl	Not Available	Not Available
Isopropanol	2,000 ppm	Not Available
Additives	Not Available	Not Available
Hydrocarbon propellant (Butane)	Not Available	Not Available

8.2 Exposure controls

Appropriate engineering controls:	Only applicable for manufacture of CycloSpray.
Personal protection:	
Eye and face protection:	Safety glasses with side shields / chemical goggles
Skin protection:	See hand protection below
Hands/ feet protection:	Wear appropriate impermeable gloves whilst handling the product.
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

Supplied as an aerosol pack. Contents under **PRESSURE**. Contains highly flammable hydrocarbon propellant.
Appearance:
Cyclospray®: Blue solution
Container: Stored in a 270ml or 520ml pressurized container of coated tin plate with a plastic valve mechanism and spraying nozzle.
Physical state: Liquid
Odour: Not available
Odour Threshold: Not available
pH (as supplied): Not available
Melting point / freezing point (degrees C): Not available
Initial boiling point and boiling range: Not available
Flash Point: Not available
Evaporation rate: Not available
Flammability: Not available
Upper/lower flammability or explosive limits: Not available
Vapour pressure: Not available
Relative Density (at degrees C): Not available
Solubility in water and solvents (mg/l): Chlortetracycline Hydrochloride: slightly soluble in water and alcohol
Vapour density: Not available
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
Molecular weight: Not available
Taste: Not available
Surface tension: Not available
Volative component: Not available
Gas group: Not available
pH as a solution: Not available
VOC g/L: Not available

9.2 Other information

Not Available

10: REACTIVITY AND STABILITY

10.1 Reactivity:	See Section 7
10.2 Chemical stability:	Elevated temperatures. Presence of open flame. Product is considered stable. Hazardous polymerisation will not occur.

10.3 Possibility of hazardous reactions:	See Section 7.
10.4 Conditions to avoid:	See Section 7.
10.5 Incompatible materials:	See section 7.
10.6 Hazardous decomposition:	See Section 5.

SECTION 11: TOXICOLOGICAL INFORMATION	
Inhalation:	Inhalation of high concentrations of gas/vapour causes lung irritation with coughing and nausea, central nervous depression with headache and dizziness, slowing of reflexes, fatigue and incoordination. If exposure to highly concentrated solvent atmosphere is prolonged this may lead to narcosis, unconsciousness, even coma and possible death. The odour of isopropanol may give some warning of exposure, but odour fatigue may occur. Inhalation of isopropanol may produce irritation of the nose and throat with sneezing, sore throat and runny nose.
Ingestion:	Accidental ingestion of the material may be damaging to the health of the individual. Following ingestion, a single exposure to isopropyl alcohol produced lethargy and non-specific effects such as weight loss and irritation. Ingestion may cause nausea, vomiting, and diarrhoea. Swallowing 10ml. of isopropanol may cause serious injury; 100ml. may be fatal if not promptly treated. The adult single lethal doses is approximately 250ml.
Skin contact:	Spray mist may produce discomfort. Most liquid alcohols appear to act as primary skin irritants in humans. Entry into the blood-stream through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.
Eye contact:	This material can cause eye irritation and damage in some persons. Isopropanol vapour may cause mild eye irritation at 400 ppm. Splashes may cause severe eye irritation, possible corneal burns and eye damage. Eye contact may cause tearing or blurring of vision.

SECTION 11: TOXICOLOGICAL INFORMATION		
Chronic:	Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. Exposure to small quantities may induce hypersensitivity reactions. Long term, or repeated exposure of isopropanol may cause inco-ordination and tiredness. Repeated inhalation exposure to isopropanol may produce sleepiness, inco-ordination and liver degeneration	
CycloSpray®:	**Acute toxicity**	**Irritation**
	Not Available	Not Available
Chlortetracycline Hydrochloride:	**Acute toxicity**	**Irritation**
	Oral (mouse) LD50: 2314 mg/kg[2]	Not Available
Isopropanol:	**Acute toxicity**	**Irritation**
	Dermal (rabbit) LD50: 12800 mg/kg[2] Inhalation (rat) LC50: 72.6 mg/l/4h[2] Oral (rat) LD50: 4396 mg/kg[2]	Eye (rabbit): 10 mg – moderate Eye (rabbit): 100 mg – SEVERE Eye (rabbit): 100mg/24hr-moderate Skin (rabbit): 500 mg - mild
Hydrocarbon propellant (Butane):	**Acute toxicity**	**Irritation**
	Inhalation (rat) LC50: 658 mg/l/4H[2]	Not Available
1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified, data extracted from RTECS - Register of Toxic Effect of chemical Substances*		
Acute toxicity:		
Not Available.		
Skin corrosion/ irritation:		
Not Available		
Serious eye damage/ irritation:		
Not Available		
Respiratory or skin sensitization:		
Not Available		
Germ cell mutagenicity:		
Not Available		

SECTION 11: TOXICOLOGICAL INFORMATION
Carcinogenicity:
Not Available
Reproductive toxicity:
Not Available
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
Chlortetracycline Hydrochloride	EC_{50}	72	Algae or other aquatic plants	3.1mg/L	4
Chlortetracycline Hydrochloride	NOEC	72	Algae or other aquatic plants	0.5 mg/L	4
Isopropanol	LC_{50}	96	Fish	9-640mg/L	2
Isopropanol	EC_{50}	48	Crustacea	12500mg/L	5
Isopropanol	EC_{50}	96	Algae or other aquatic plants	993.232mg/L	3
Isopropanol	EC_{50}	24	Crustacea	5-102mg/L	2
Isopropanol	NOEC	5760	Fish	0.02mg/L	4
Hydrocarbon propellant (butane)	LC_{50}	96	Fish	24.11mg/L	2
Hydrocarbon propellant (butane)	EC_{50}	96	Algae or other aquatic plants	7.71mg/L	2
Legend:	2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data				

DO NOT discharge into sewer or waterways.		
12.2 Persistence and degradability		
Ingredient	*Persistence: Water/Soil*	*Persistence: Air*
Chlortetracycline Hydrochloride	*HIGH*	*HIGH*
Isopropanol	*LOW (Half-life = 14 days)*	*LOW (Half-life = 3 da* ys)

12.3 Bioaccumulative potential	
Ingredient	**Bioaccumulative Potential**
Chlortetracycline Hydrochloride	LOW (LogKOW = -0.6841)
Isopropanol	LOW (LogKOW = 0.05)
12.4 Mobility in Soil	
Ingredient	**Mobility**
Chlortetracycline Hydrochloride	LOW (KOC = 95.22)
Isopropanol	HIGH (KOC = 1.06)
12.5 Results of PBT and vPvB assessment Not Available	
12.6 Other adverse effects Not Available	

SECTION 13: DISPOSAL CONSIDERATIONS

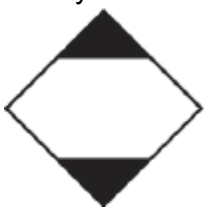
13.1 Waste treatment methods

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. **DO NOT** incinerate or puncture aerosol cans. Ensure that the disposal of material is carried out in accordance with Hazardous Substances (Disposal) Regulations (Canada 2015).
Waste Treatment Options:	Not Available
Sewage Disposal Options:	Not Available

SECTION 14: TRANSPORT INFORMATION

Labels required:

The spray can has been labelled in line with regulations for pharmaceutical products, and for aerosols displaying the flame symbol. (See section 16, other information)
PLEASE NOTE that – this product has been exempted from transport marking according to Limited quantity (LQ) exemptions (ADR 3.4) due to the combined packaging of 6 or 12 cans in carton and boxes
The Symbol for limited quantities is used on the box/carton.



UN 1950

Marine pollutant:	NO	
Hazchem:	Not Applicable	
Land transport (EU: ADR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS		
14.1 UN Number	1950	
14.2 UN Proper Shipping Name	AEROSOLS, corrosive, Packing Group II or III, (each not exceeding 1 L capacity).	
14.3 Transport hazard class(es)	Class	2.1
	Sub risk	N/a
14.4 Packing group	N/a	
14.5 Environmental hazards	N/a	
14.6 Special precautions for user	Special provisions EU: US:	190 327 344 625 N82
	Hazard Label:	2.1
	Hazard Identification (Kemler)	N/a
	Classification code	5F

	Limited quantity EU: US:	1L N82
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	N/a	
Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS		
14.1 UN Number	1950	
14.2 UN Proper Shipping Name	AEROSOLS	
14.3 Transport hazard class(es)	ICAO/IATA Class	2.1
	ICAO / IATA Sub risk	N/a
	ERG Code	10L
14.4 Packing group	N/a	
14.5 Environmental hazards	N/a	
14.6 Special precautions for user	Special provisions	A145A167A802; A1A145A167A802
	Cargo only packing instructions	203
	Cargo only maximum qty/pack	150kg
	Passenger and cargo packaging instructions	203; Forbidden
	Passenger and cargo maximum qty/pack	75kg; Forbidden
	Passenger and cargo limited quantity packing instructions	Y203; Forbidden
	Passenger and cargo limited maximum qty/pack	30kg G; Forbidden

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	N/a	
Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS		
14.1 UN Number	1950	
14.2 UN Proper Shipping Name	Aerosols, flammable	
14.3 Transport hazard class(es)	IMDG Class	2.1
	IMDG Sub risk	N/a
14.4 Packing group	N/a	
14.5 Environmental hazards	N/a	
14.6 Special precautions for user	EMS Number	F-D, S-U
	Special provisions	63 190 277 327 344 959
	Limited quantities	1000ml
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	N/a	
Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS		
14.1 UN Number	1950	
14.2 UN Proper Shipping Name	AEROSOLS	
14.3 Transport hazard class(es)	2.1	N/a
14.4 Packing group	N/a	
14.5 Environmental hazard	N/a	
14.6 Special precautions for user	Classification Code	5F
	Special provisions	190; 327; 344; 625
	Limited quantity	1L
	Equipment required	PP, EX, A

	Fire cones number	1
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	N/a	

SECTION 15: REGULATORY INFORMATION

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

CHLORTETRACYCLINE HYDROCHLORIDE (64-72-2) IS FOUND ON THE FOLLOWING REGULATORY LISTS:

- European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)

ISOPROPANOL (67-63-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS:

- EU REACH Regulation (EC) No 1907/2006 - Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles
- European Customs Inventory of Chemical Substances ECICS (English)
- European Trade Union Confederation (ETUC) Priority List for REACH Authorisation
- European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)
- European Union Annex I to Directive 67/548/EEC on Classification and Labelling of Dangerous Substances - updated by ATP: 31
- European Union Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures - Annex VI
- International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs
- UK Workplace Exposure Limits (WELs)

HYDROCARBON PROPELLANT (BUTANE) (106-97-8) IS FOUND ON THE FOLLOWING REGULATORY LISTS:
• EU REACH Regulation (EC) No 1907/2006 - Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles • EU REACH Regulation (EC) No 1907/2006 - Annex XVII (Appendix 1) Carcinogens: category 1A (Table 3.1)/category 1 (Table 3.2) • EU REACH Regulation (EC) No 1907/2006 - Annex XVII (Appendix 4) Mutagens: category 1B (Table 3.1)/category 2 (Table 3.2) • European Customs Inventory of Chemical Substances ECICS (English) • European Trade Union Confederation (ETUC) Priority List for REACH Authorisation • European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English) • European Union Annex I to Directive 67/548/EEC on Classification and Labelling of Dangerous Substances - updated by ATP: 31 • European Union Annex I to Directive 67/548/EEC on Classification and Labelling of Dangerous Substances (updated by ATP: 31) - Carcinogenic Substances • European Union Annex I to Directive 67/548/EEC on Classification and Labelling of Dangerous Substances (updated by ATP: 31) - Mutagenic Substances • European Union Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures - Annex VI • International Air Transport Association (IATA) Dangerous Goods Regulations - Prohibited List Passenger and Cargo Aircraft • UK Workplace Exposure Limits (WELs)

15.2 Chemical Safety Assessment
ECHA SUMMARY

Ingredient	**CAS number**	**Index Number**	**ECHA Dossier**
Chlortetracycline HCl	64-72-2	Not Available	Not Available
Harmonization (C&L Inventory)	**Hazard Class and Category Code(s)**	**Index Number**	**ECHA Dossier**
1	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3	GHS07, Wng	H317, H319, H335
Harmonization Code 1 = The most prevalent classification. Harmonization Code 2 = The most severe classification			
Ingredient	**CAS number**	**Index Number**	**ECHA Dossier**
Isopropanol	67-63-0	603-117-00-0	01-2119457558-25-XXXX
Harmonization (C&L Inventory)	**Hazard Class and Category Code(s)**	**Pictograms Signal Word Code(s)**	**Hazard Statement Code(s)**
1	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3	GHS07, GHS02, Dgr	H225, H319, H336

Harmonization Code 1 = The most prevalent classification. Harmonization Code 2 = The most severe classification

Ingredient	**CAS Number**	**Index Number**	**ECHA Dossier**
Hydrocarbon propellant	68476-85-7	649-202-00-6|649-203-00-1	01-2119485911-31-XXXX|01-2119490743-31-XXXX
Harmonization (C&L Inventory)	**Hazard Class and Category Code(s)**	**Index Number**	**ECHA Dossier**
1	Flam. Gas 1	GHS02, GHS04, Dgr	H220
1	Flam. Gas 1	GHS02, GHS04, Dgr	H220
Harmonization Code 1 = The most prevalent classification. Harmonization Code 2 = The most severe classification			

National Inventory	**Status**
Australia - AICS	Y
Canada - DSL	Y
Canada - NDSL	N (butane; isopropanol)
China - IECSC	Y
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	N (butane)
Korea - KECI	Y
New Zealand - NZIoC	Y
Philippines - PICCS	Y
USA - TSCA	Y
Taiwan –TCSI	Y
Mexico-INSQ	Y
Vietnam-NCI	Y
Russia-ARIPS	Y
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

Full text Risk and Hazard codes:

H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H340	May cause genetic defects.
H350	May cause cancer.
H361	Suspected of damaging fertility or the unborn child.
H370	Causes damage to organs.
H373	May cause damage to organs through prolonged or repeated exposure.

Warnings on the label:
Extremely flammable aerosol. *(H222)*
Keep away from heat/hot surfaces/sparks/open flames
and other ignition sources. No smoking. *(P210)*
DO NOT spray on an open flame or other ignition source. *(P211)*
Pressurised container: May burst if heated. *(H229)*
DO NOT pierce or burn, even after use. *(P251)*
Protect from sunlight. *(P410)*
DO NOT expose to temperatures exceeding 50ºC. *(P412)*

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:
EN 166 Personal eye-protection
EN 340 Protective clothing
EN 374 Protective gloves against chemicals and micro-organisms
EN 13832 Footwear protecting against chemicals
EN 133 Respiratory protective devices

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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