

SAFETY DATA SHEET

DeLaval Livestock Marking Spray Red

FS3013

According to EC Directive (EC) No. 1907/2006 (No. 878/2020)

Preparation Date: 16-Jan-2015

Revision Date: 17-Mar-2023

Revision Number: 2.0

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

1.1. Product Identifier

Product Name DeLaval Livestock Marking Spray Red
UFI: ECFJ-84PP-P00J-73PX

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

Recommended use coloring agent
Uses advised against Restricted to professional users.

1.3. Details of the supplier of the safety data sheet

Contact Manufacturer	Supplier
c/o DeLaval International AB	DeLaval Limited
PO BOX 39	Ground floor, Summers house,
147 21 Tumba	Paramount Business Park,
Sweden	Pascal Close,
Tel + 46 08-530 66 000	St Mellons,
Email MSDS.EU@delaval.com	Cardiff, CF3 0LW
	UK
	Tel (29) 2077 5800

1.4. Emergency Telephone Number

Emergency Telephone Number +44 1865 407 333

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to REGULATION (EC) No 1272/2008
For the full text of the H phrases mentioned in this Section, see Section 16

Serious eye damage/eye irritation	Category 2. (H319)
Physical hazards	Flammable aerosol Category 1. (H222) (H229)

2.2. Label Elements

Labeling according to REGULATION (EC) No 1272/2008

Hazard Pictogram(s)



Signal word

DANGER

Hazard statements

H319 - Causes serious eye irritation
 H222 - Extremely flammable aerosol
 H229 - Pressurized container: May burst if heated

Precautionary statements

P102 - Keep out of reach of children
 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
 P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

2.3. Other hazards

This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB) ($\geq 0.1\%$)
 This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT) ($\geq 0.1\%$)
 This product does not contain any known or suspected endocrine disruptors ($\geq 0.1\%$)

3. COMPOSITION/INFORMATION ON INGREDIENTS**3.1. Substances**

Not applicable

3.2. Mixture

Chemical nature of the preparation.

Chemical name	EC No	Weight-%	EU - GHS Substance Classification	Specific concentration limit (SCL)	M-Factor (acute)	M-Factor (chronic)	Reach Registration Number
Dimethyl ether 115-10-6	204-065-8	40 - 60	Flam. Gas 1 (H220) Press. Gas (H280)	-	-	-	01-2119472128-37
Ethyl alcohol 64-17-5	200-578-6	15 - 25	Flam. Liq. 2 (H225) Eye irr. 2 (H319)	-	-	-	01-2119457610-43
2-methoxy-1-methylethyl acetate 108-65-6	203-603-9	5 - 10	Flam. Liq. 3 (H226)	-	-	-	01-2119475791-29
Ethylacetate 141-78-6	205-500-4	< 1	Eye Irrit. 2 (H319) STOT SE 3 (H336) Flam. Liq. 2 (H225) (EUH066)	-	-	-	01-2119475103-46
Acetone 67-64-1	200-662-2	< 1	Eye Irrit. 2 (H319) STOT SE 3 (H336) Flam. Liq. 2 (H225) (EUH066)	-	-	-	01-2119471330-49

Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50
Dimethyl ether 115-10-6	No data available	No data available	164000 ppm (Rat) 4h
Ethyl alcohol 64-17-5	7060 mg/kg (Rat)	>2000 mg/kg (Rabbit)	124.7 mg/L (Rat)
2-methoxy-1-methylethyl acetate 108-65-6	5155 mg/kg (Rat)	2000 mg/kg (Rabbit)	1728 ppm (Rat) 4h
Ethylacetate 141-78-6	5620 mg/kg (Rat)	> 18000 mg/kg (Rabbit)	4000 ppm (Rat) 4h
Acetone 67-64-1	5800 mg/kg (Rat)	7400 mg/kg (Rabbit)	76000 mg/m ³ (Rat) 4h

Additional information

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

4. FIRST AID MEASURES

4.1. Description of first-aid measures.

General Advice	Get medical attention if symptoms occur. Show this safety data sheet to the doctor in attendance. Never give anything by mouth to an unconscious person.
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. Information to Healthcare personnel/doctor: The eyes should also be rinsed repeatedly on the way to the doctor.
Skin contact	Rinse with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.
Ingestion	Rinse mouth. Never give anything by mouth to an unconscious person. Drink plenty of water. If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance. Do not induce vomiting.
Inhalation	Move to fresh air. Remove from exposure, lie down.

4.2. Most important symptoms and effects, both acute and delayed

Acute Effects	Irritating to eyes. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
Delayed Effects	None known.
Effects of overexposure	Repeated exposure may cause skin dryness or cracking.

4.3. Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically. Show this safety data sheet to the doctor in attendance.
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5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media	alcohol-resistant foam, Carbon dioxide (CO ₂), Dry powder, Water fog
Extinguishing media which must not be used for safety reasons	Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	Extremely flammable. In the event of fire and/or explosion do not breathe fumes. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Heating of containers may cause pressure rise, with risk of bursting. In the event of fire the following can be released. Carbon monoxide. Carbon dioxide (CO ₂).
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5.3. Advice for firefighters

Protective Equipment and Precautions for Firefighters	In the event of fire and/or explosion do not breathe fumes. Do not breathe vapours. In the event of fire, wear self-contained breathing apparatus. Personal protective equipment.
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6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation. For personal protection see section 8.
Other Information	See Section 12 for more information
Advice for emergency responders.	Individual protection measures, such as personal protective equipment. Wear personal protective clothing (see section 8).

6.2. Environmental Precautions

Do not flush into surface water or sanitary sewer system.

6.3. Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Disposal should be in accordance with applicable regional, national and local laws and regulations. Clean with detergents. Avoid solvents.

6.4. Reference to other sections

See Section 12 for more information
For personal protection see section 8
Section 13. Disposal considerations

7. HANDLING AND STORAGE**7.1. Precautions for Safe Handling****Handling**

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.

General Hygiene Considerations

Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities**Storage**

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. Store locked up. Store away from incompatible materials. Incompatible with strong bases and oxidizing agents. Do not store near acids.

7.3. Specific End Use(s)**Exposure Scenario**

Not applicable

Other Guidelines

Not applicable

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters**

Chemical name	EU	United Kingdom	France	Spain	Germany
Dimethyl ether 115-10-6			TWA: 1000 ppm TWA: 1920 mg/m ³	TWA: 1000 ppm TWA: 1920 mg/m ³	TWA: 1000 ppm TWA: 1900 mg/m ³ Peak: 8000 ppm Peak: 15200 mg/m ³
Ethyl alcohol 64-17-5		TWA: 1000 ppm TWA: 1920 mg/m ³	TWA: 1000 ppm TWA: 1900 mg/m ³ STEL: 5000 ppm STEL: 9500 mg/m ³	STEL: 1000 ppm STEL: 1910 mg/m ³	TWA: 200 ppm TWA: 380 mg/m ³ Peak: 800 ppm Peak: 1520 mg/m ³ Skin
2-methoxy-1-methylethyl acetate 108-65-6			TWA: 50 ppm TWA: 275 mg/m ³ STEL: 100 ppm STEL: 550 mg/m ³	Skin STEL: 100 ppm STEL: 550 mg/m ³ TWA: 50 ppm TWA: 275 mg/m ³	TWA: 50 ppm TWA: 270 mg/m ³ Peak: 50 ppm Peak: 270 mg/m ³
Acetone 67-64-1		TWA: 1210 mg/m ³ STEL: 1500 ppm STEL: 3620 mg/m ³ TWA: 500 ppm	TWA: 500 ppm TWA: 1210 mg/m ³ STEL: 1000 ppm STEL: 2420 mg/m ³	TWA: 500 ppm TWA: 1210 mg/m ³	TWA: 500 ppm TWA: 1200 mg/m ³ Peak: 1000 ppm Peak: 2400 mg/m ³
Ethylacetate 141-78-6		TWA: 200 ppm STEL: 400 ppm	TWA: 200 ppm TWA: 734 mg/m ³ STEL: 400 ppm STEL: 1468 mg/m ³	STEL: 400 ppm STEL: 1468 mg/m ³ TWA: 200 ppm TWA: 734 mg/m ³	TWA: 200 ppm TWA: 750 mg/m ³ Peak: 400 ppm Peak: 1500 mg/m ³
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
Dimethyl ether 115-10-6	TWA: 1000 ppm TWA: 1920 mg/m ³	TWA: 1000 ppm TWA: 1920 mg/m ³	STEL: 1500 mg/m ³ TWA: 950 mg/m ³	TWA: 1000 ppm TWA: 2000 mg/m ³	TWA: 1000 ppm TWA: 1920 mg/m ³
Ethyl alcohol 64-17-5		TWA: 1000 ppm	Skin STEL: 1900 mg/m ³ TWA: 260 mg/m ³	HTP: 1000 ppm HTP: 1900 mg/m ³ HTP kattoarvo: 1300 ppm HTP kattoarvo: 2500 mg/m ³	TWA: 1000 ppm TWA: 1900 mg/m ³
2-methoxy-1-methylethyl acetate 108-65-6	TWA: 50 ppm TWA: 275 mg/m ³	STEL: 100 ppm STEL: 550 mg/m ³ TWA: 50 ppm TWA: 275 mg/m ³	TWA: 550 mg/m ³	TWA: 50 ppm TWA: 270 mg/m ³ STEL: 100 ppm STEL: 550 mg/m ³ Skin	TWA: 50 ppm TWA: 275 mg/m ³ Skin

Acetone 67-64-1	TWA: 500 ppm TWA: 1210 mg/m ³	STEL: 750 ppm TWA: 500 ppm TWA: 1210 mg/m ³	STEL: 2420 mg/m ³ TWA: 1210 mg/m ³	TWA: 500 ppm TWA: 1200 mg/m ³ STEL: 630 ppm STEL: 1500 mg/m ³	TWA: 250 ppm TWA: 600 mg/m ³
Ethylacetate 141-78-6	TWA: 734 mg/m ³ TWA: 200 ppm	STEL: 1468 mg/m ³ STEL: 400 ppm TWA: 200 ppm TWA: 734 mg/m ³	STEL: 1468 mg/m ³ TWA: 734 mg/m ³	TWA: 200 ppm TWA: 730 mg/m ³ STEL: 400 ppm STEL: 1470 mg/m ³	TWA: 150 ppm TWA: 540 mg/m ³
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Dimethyl ether 115-10-6	STEL: 2000 ppm STEL: 3820 mg/m ³ TWA: 1000 ppm TWA: 1910 mg/m ³	TWA: 1000 ppm TWA: 1910 mg/m ³	TWA: 1000 mg/m ³	TWA: 200 ppm TWA: 384 mg/m ³	TWA: 1000 ppm TWA: 1920 mg/m ³ STEL: 3000 ppm STEL: 5760 mg/m ³
Ethyl alcohol 64-17-5	STEL: 2000 ppm STEL: 3800 mg/m ³ TWA: 1000 ppm TWA: 1900 mg/m ³	STEL: 1000 ppm STEL: 1920 mg/m ³ TWA: 500 ppm TWA: 960 mg/m ³	TWA: 1900 mg/m ³	TWA: 500 ppm TWA: 950 mg/m ³	STEL: 1000 ppm
2-methoxy-1-methylethyl acetate 108-65-6	Skin STEL: 100 ppm STEL: 550 mg/m ³ TWA: 50 ppm TWA: 275 mg/m ³	STEL: 50 ppm STEL: 275 mg/m ³ TWA: 50 ppm TWA: 275 mg/m ³	STEL: 520 mg/m ³ TWA: 260 mg/m ³	TWA: 50 ppm TWA: 270 mg/m ³ Skin	TWA: 50 ppm TWA: 275 mg/m ³ STEL: 100 ppm STEL: 550 mg/m ³ Skin
Acetone 67-64-1	STEL: 2000 ppm STEL: 4800 mg/m ³ TWA: 500 ppm TWA: 1200 mg/m ³	STEL: 1000 ppm STEL: 2400 mg/m ³ TWA: 500 ppm TWA: 1200 mg/m ³	STEL: 1800 mg/m ³ TWA: 600 mg/m ³	TWA: 125 ppm TWA: 295 mg/m ³	TWA: 500 ppm TWA: 1210 mg/m ³ STEL: 1500 ppm STEL: 3630 mg/m ³
Ethylacetate 141-78-6	STEL: 400 ppm STEL: 1468 mg/m ³ TWA: 200 ppm TWA: 734 mg/m ³	STEL: 400 ppm STEL: 1460 mg/m ³ TWA: 200 ppm TWA: 730 mg/m ³	STEL: 1468 mg/m ³ TWA: 734 mg/m ³	TWA: 200 ppm TWA: 734 mg/m ³	TWA: 734 mg/m ³ TWA: 200 ppm STEL: 1468 mg/m ³ STEL: 400 ppm
Chemical name	Sweden	Bulgary	Estonia	Hungary	Croatia
Ethyl alcohol 64-17-5	LLV: 500 ppm LLV: 1000 mg/m ³ STV: 1000 ppm STV: 1900 mg/m ³	TLV: 1000 mg/m ³ (8 H)		Ák-érték: 1900 mg/m ³ CK-érték: 7600 mg/m ³	GVI: 1000ppm GVI: 1900 mg/m ³
2-methoxy-1-methylethyl acetate 108-65-6	LLV: 50 ppm - 250 mg/m ³ STV: 75 ppm - 400mg/m ³			ÁK-érték: 275 mg/m ³ CK- érték: 550 mg/m ³	

Derived No Effect Level (DNEL)
Predicted No Effect Concentration (PNEC)

No information available
No information available

8.2. Exposure controls

Engineering Controls

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye Protection

If splashes are likely to occur, wear: Safety glasses with side-shields. (EN 166).

Skin Protection

Wear protective gloves/clothing.

Hand Protection

If splashes are likely to occur, wear: butyl-rubber Protective gloves

Glove thickness 0.7 mm Break through time >480 min (EN374-2) (EN374-3) (EN388) (EN421)

Respiratory Protection

In case of inadequate ventilation wear respiratory protection. Cartridge A2. P2. Class 2. Brown. White. (EN 14387).

Environmental exposure controls

No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state

Aerosol

Appearance

Red

Odor

solvent

Odor Threshold

No information available

Property

Values

Melting Point/Range

No data available

Boiling Point/Range	Not applicable
Upper flammability limit:	No data available
Upper Explosion Limit	Not applicable
Lower flammability limit:	No data available
Lower Explosion Limit	Not applicable
Flash Point	Not applicable
Autoignition Temperature	Not applicable
Decomposition temperature	No data available not applicable
pH	Not applicable
Kinematic viscosity	No data available
Water Solubility	Soluble in water
Solubility in other solvents	No data available
Solubility	water; solvent
Partition coefficient:	No data available
n-octanol/water	
Vapor Pressure	Not applicable
Density	0.79 g/cm ³
Relative Density	No data available
Relative vapor density	No data available
Particle characteristics	Not applicable

9.2. Other Information

Viscosity	No data available
VOC Content	475 g/l

9.2.1. Information with regard to physical hazard classes

Explosives

Explosive properties No information available

Aerosols

Extremely flammable aerosol

Oxidizing properties

No information available

9.2.2. Other safety characteristics

No information available

10. STABILITY AND REACTIVITY

10.1. Reactivity

None known.

10.2. Chemical Stability**Stability**

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions**Possibility of hazardous reactions**

None under normal use.

10.4. Conditions to Avoid

Temperatures above 50°C. Extremes of temperature and direct sunlight. Avoid static electric discharge.

10.5. Incompatible Materials**Incompatible Materials**

Strong reducing agents, strong oxidizing agents, strong bases, strong acids

10.6. Hazardous decomposition products

None under normal use.

11. TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**Acute Toxicity****Inhalation**

No information available.

Eye contact

No information available.

Skin contact No information available.
Ingestion No information available.

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Dimethyl ether			164000 ppm (Rat) 4 h
Ethyl alcohol	7060 mg/kg (Rat)	>2000 mg/kg (Rabbit)	124.7 mg/L (Rat)
2-methoxy-1-methylethyl acetate	5155 mg/kg (Rat)	2000 mg/kg (Rat)	1728 ppm (Rat) 4h
Ethylacetate	5620 mg/kg (Rat)	> 18000 mg/kg (Rabbit)	4000 ppm (Rat) 4h
Acetone	5800 mg/kg (Rat)	7400 mg/kg (Rabbit)	76000 mg/m ³ (Rat)

Skin corrosion/irritation Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation Irritating to eyes.
Respiratory or skin sensitization Based on available data, the classification criteria are not met.
Germ cell mutagenicity Based on available data, the classification criteria are not met.
Carcinogenicity Based on available data, the classification criteria are not met.
Reproductive toxicity Based on available data, the classification criteria are not met.
STOT - single exposure Based on available data, the classification criteria are not met.
STOT - repeated exposure Based on available data, the classification criteria are not met.
Other Adverse Effects Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Repeated exposure may cause skin dryness or cracking.
Aspiration hazard Based on available data, the classification criteria are not met.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties This product does not contain any known or suspected endocrine disruptors ($\geq 0.1\%$).

11.2.2. Other information

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity effects

No known significant effects or critical hazards.

Chemical name	Algae/aquatic plants	Fish	Microtox	Waterflea
Dimethyl ether		4.1: 96 h Poecilia reticulata g/L LC50 semi-static		
Ethyl alcohol	EC 50 >100 mg/l (Chlorella pyrenoidosa)	12.0 - 16.0: 96 h Oncorhynchus mykiss mL/L LC50 static 13400 - 15100: 96 h Pimephales promelas mg/L LC50 flow-through 100: 96 h Pimephales promelas mg/L LC50 static	EC50 = 34634 mg/L 30 min EC50 = 35470 mg/L 5 min	9268 - 14221: 48 h Daphnia magna mg/L LC50 2: 48 h Daphnia magna mg/L EC50 Static
2-methoxy-1-methylethyl acetate		161: 96 h Pimephales promelas mg/L LC50 static		500: 48 h Daphnia magna mg/L EC50
Ethylacetate		220 - 250: 96 h Pimephales promelas mg/L LC50 flow-through 352 - 500: 96 h Oncorhynchus mykiss mg/L	EC50 = 1180 mg/L 5 min EC50 = 1500 mg/L 15 min EC50 = 5870 mg/L 15 min EC50 = 7400 mg/L 2 h	560: 48 h Daphnia magna mg/L EC50 Static

		LC50 semi-static 484: 96 h Oncorhynchus mykiss mg/L LC50 flow-through		
Acetone		4.74 - 6.33: 96 h Oncorhynchus mykiss mL/L LC50 6210 - 8120: 96 h Pimephales promelas mg/L LC50 static 8300: 96 h Lepomis macrochirus mg/L LC50	EC50 = 14500 mg/L 15 min	10294 - 17704: 48 h Daphnia magna mg/L EC50 Static 12600 - 12700: 48 h Daphnia magna mg/L EC50

12.2. Persistence and degradability

No information available

12.3. Bioaccumulative potential

No information available

Chemical name	Partition coefficient
Dimethyl ether	-0.18
Ethyl alcohol	-0.35
2-methoxy-1-methylethyl acetate	1.2
Ethylacetate	0.73
Acetone	-0.24

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Endocrine disrupting propertiesThis product does not contain any known or suspected endocrine disruptors ($\geq 0.1\%$).**12.7. Other adverse effects**

No information available.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods**Waste from Residues / Unused Products**

Dispose of as hazardous waste in accordance with local regulations. Chemical residues are generally classified as hazardous or special waste, and as such are covered by regulations which vary according to location.

Contaminated Packaging

Dispose of in accordance with local regulations.

EWC waste disposal No

14 06 03*
15 01 04

Other Information

The manufacturer of this product complies with the rules and regulations of the European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste, by paying packaging fees for disposal and recycling of packaging waste.

14. TRANSPORT INFORMATION

IMDG/IMO**14.1. UN number or ID number**

1950

14.2. Proper shipping name	Aerosols
14.3. Transport hazard class(es)	Class 2; labels 2.1; Classification code 5F
14.4. Packing Group	Not regulated
14.5. Environmental hazard	None
14.6. Special Provisions	EMS F-D, S-U
14.7. Maritime transport in bulk according to IMO instruments	No information available
Further information	Limited quantities 1L See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

ADR/RID

14.1. UN number or ID number	1950
14.2. Proper shipping name	Aerosols
14.3. Transport hazard class(es)	Class 2; labels 2.1; Classification code 5F
ADR/RID-Labels	2.1
14.4. Packing Group	Not regulated
14.5. Environmental hazard	None
14.6. Special Provisions	Tunnelcode: (D)
Further information	Limited quantities 1L See Table A, Section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IATA/CAO

14.1. UN number or ID number	1950
14.2. Proper Shipping Name	Aerosols
14.3. Transport hazard class(es)	Class 2; labels 2.1; Classification code 5F
14.4. Packing group	Not regulated
14.5. Environmental hazard	None
14.6. Special Provisions	None
Further information	See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

15. REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

WGK Classification Water endangering class = 1

EU Legislations

Reg.1907/2006-REACH

Reg. 878/2020 That modify REACH

Reg.1272/2008 On classification, packaging and labeling of dangerous substances and preparations

Dir. 2000/39/CE (OEL)

Dir. 2013/10/EU (Aerosol Dispensers)

SEVESO

P3b - FLAMMABLE AEROSOLS Qualifying quantity (lower-tier): 5.000 tonnes (net) / (upper-tier): 50.000 tonnes (net)

Regulation (EU) No 2019/1148 on the marketing and use of explosives precursors

Listed in ANNEX II "List of substances, whether on their own or in mixtures or substances that include those substances, for which significant disappearances and thefts are to be reported within 24 hours": acetone (CAS # 67-64-1)

International Inventories

EINECS/ELINCS All components are listed or exempted

Legend

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

15.2. Chemical Safety Assessment

No data available

16. OTHER INFORMATION**Full text of H-Statements referred to under sections 2 and 3**

H220 - Extremely flammable gas
H222 - Extremely flammable aerosol
H225 - Highly flammable liquid and vapor
H226 - Flammable liquid and vapor
H229 - Pressurized container: May burst if heated
H280 - Contains gas under pressure; may explode if heated
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness
EUH066 - Repeated exposure may cause skin dryness or cracking

Key literature references and sources for data

www.ChemADVISOR.com/

Preparation Date: 16-Jan-2015

Revision Date: 17-Mar-2023

Revision Number: 2.0

Revision Note:**Reason for revision**

Update Section: 1.1 (UFI); 3; 8; 9; 11; 12; 13

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 Safety Data Sheet