

SAFETY DATA SHEET

Red FDA markingspray

SDS according to Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex II-EU

SECTION 1: Identification of the substance / mixture and of the company / undertaking

Date issued 29.10.2014

1.1. Product identifier

Product name Red FDA markingspray

Article no. 12212FDA

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

Function Description: Mærkefarve til dyr.

1.3. Details of the supplier of the safety data sheet

Company name Aeropak A/S

Postal address Aldumvej 1

Postcode 8722

City Hedensted

Country Denmark

Telephone number +45 7589 2355

Email info@aeropak.dk

Website <http://www.aeropak.dk>

1.4. Emergency telephone number

Emergency telephone Telephone number: +45 8112 1212

Description: Giftlinjen

SECTION 2: Hazards identification

2.1. Classification of substance or mixture

Classification according to F+; R12

67/548/EEC or 1999/45/EC

Xi; R36

R67

Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	Flam Aerosol 1; H222
	H229
	Eye Irrit. 2; H319
	STOT SE3; H336

2.2. Label elements

Hazard pictograms (CLP)



Composition on the label	propan-2-ol 30 – 60 % vgt/vgt
Signal word	Danger
Hazard statements	H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.
Precautionary statements	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. P403 Store in a well-ventilated place. P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.

2.3. Other hazards

PBT / vPvB	The mixture does not meet the criteria for PBT or vPvB.
Other hazards	The product releases organic solvent vapours which may cause lethargy and dizziness. At high concentrations, the vapours may cause headache and intoxication.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents
Ethanol	CAS No.: 64-17-5 EC No.: 200-578-6 Index No.: 603-002-00-5 Synonyms for section 3: ethyl alcohol	F; R11 Flam. Liq. 2;H225	30 – 60 % vgt/vgt
butane	CAS No.: 106-97-8 EC No.: 203-448-7 Index No.: 601-004-00-0	F+; R12 Flam gas 1; H220 Press. Gas Note : C U	10 – 30 % vgt/vgt
propane	CAS No.: 74-98-6 EC No.: 200-827-9 Index No.: 601-003-00-5	F+; R12 Flam. Gas 1;H220 Press. Gas; Note : U	10 – 30 % vgt/vgt
and isobutane	CAS No.: 75-28-5 EC No.: 200-857-2 Index No.: 601-004-00-0	F+; R12 Flam gas 1; H220 Press. Gas;	10 – 30 % vgt/vgt

		Note : C U	
propan-2-ol	CAS No.: 67-63-0 EC No.: 200-661-7 Index No.: 603-117-00-0 Synonyms for section 3: isopropyl alcohol; isopropanol	F; R11 Xi; R36 R67 Flam. Liq. 2;H225 Eye Irrit. 2;H319 STOT SE 3;H336	30 – 60 % vgt/vgt
Substance comments	6) See also section 16.		

SECTION 4: First aid measures

4.1. Description of first aid measures

General	If medical advice is needed, have product container or label at hand. Forbrænding: Flush with water until pain ceases. Remove clothing that is not stuck to the skin – seek medical advice/transport to hospital. If possible, continue flushing until medical attention is obtained.
Inhalation	Seek fresh air. Keep victim under observation. Seek medical advice in case of persistent discomfort.
Skin contact	Remove contaminated clothing. Wash skin with soap and water. Seek medical advice in case of persistent discomfort.
Eye contact	Flush with water (preferably using eye wash equipment) until irritation subsides. Seek medical advice if symptoms persist.
Ingestion	Wash out mouth thoroughly and drink 1-2 glasses of water in small sips.

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

Information for health personnel	Irritation effects: This product contains substances which cause irritation to skin and eyes, or when inhaled. Contact with locally irritative substances can cause the area of contact to be more prone to absorb damaging substances such as allergens.
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4.3. Indication of any immediate medical attention and special treatment needed

Other information	No special immediate treatment required.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with powder, foam, carbon dioxide or water mist. Use water or water mist to cool non-ignited stock.
Improper extinguishing media	Do not use water stream, as it may spread the fire.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	Flammable aerosol. CAUTION! Aerosol containers may explode.
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5.3. Advice for firefighters

Other information	If there is a risk of exposure to vapour and flue gases, a self-contained breathing apparatus must be worn. Move containers from danger area if it can be done without risk. Avoid inhalation of vapour and flue gases – seek fresh air.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	Smoking and naked flames prohibited. Eliminate all ignition sources if safe to do so. Take precautionary measures against static discharges. Use spark-free tools and explosion proof equipment.
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6.1.1. For non-emergency personnel

Personal precautions	Wear respiratory protective equipment with filter A.
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6.1.2. For emergency responders

For emergency responders	Stop leak if safe to do so.
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6.2. Environmental precautions

Environmental precautionary measures	Avoid unnecessary release to the environment.
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6.3. Methods and material for containment and cleaning up

Cleaning method	Wipe up minor spills with a cloth.
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6.4. Reference to other sections

Other instructions	See section 8 for type of protective equipment. See section 13 for instructions on disposal.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling	Use the product under well-ventilated conditions, preferably outdoors. See section 8 for information about precautions for use and personal protective equipment.
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7.2. Conditions for safe storage, including any incompatibilities

Storage	Pressurized container: Protect from sunlight and do not expose to temperatures exceeding 50°C. Store frost-free. Keep out of reach of children. Store in a well-ventilated place.
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Conditions for safe storage

Storage temperature	Value: 10 – 50 grader
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7.3. Specific end use(s)

Specific use(s)	See application section 1
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SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Substance	Identification	Value	TWA Year
Ethanol	CAS No.: 64-17-5	TWA (8h): 1000 ppm	
	EC No.: 200-578-6	TWA (8h): 1920 mg/m ³	
	Index No.: 603-002-00-5		
	Synonyms for section 3: ethyl		

butane	alcohol CAS No.: 106-97-8 EC No.: 203-448-7 Index No.: 601-004-00-0	TWA (8h): 600 ppm TWA (8h): 1450 mg/m3 OEL short term value Value: 750 ppm OEL short term value Value: 1810 mg/m3
propane	CAS No.: 74-98-6 EC No.: 200-827-9 Index No.: 601-003-00-5	
and isobutane	CAS No.: 75-28-5 EC No.: 200-857-2 Index No.: 601-004-00-0	
propan-2-ol	CAS No.: 67-63-0 EC No.: 200-661-7 Index No.: 603-117-00-0 Synonyms for section 3: isopropyl alcohol; isopropanol	TWA (8h): 400 ppm TWA (8h): 999 mg/m3 OEL short term value Value: 500 ppm OEL short term value Value: 1250 mg/m3
Substance	Ethanol	
DNEL	<p>Group: Worker Route of exposure: Short term (acute) – Inhalation – Local effect Value: 1900 mg/m3</p> <p>Group: Worker Route of exposure: Long term (repeated) – Inhalation – Systemic effect Value: 950 mg/m3</p> <p>Group: Worker Route of exposure: Long term (repeated) – Dermal – Systemic effect Value: 343 mg/kg bw/day</p> <p>Group: Consumer Route of exposure: Short term (acute) – Inhalation – Local effect Value: 950 mg/m3</p> <p>Group: Consumer Route of exposure: Long term (repeated) – Inhalation – Systemic effect Value: 114 mg/m3</p> <p>Group: Consumer Route of exposure: Long term (repeated) – Oral – Systemic effect Value: 87 mg/kg bw/day</p> <p>Group: Consumer Route of exposure: Long term (repeated) – Dermal – Systemic effect Value: 206 mg/kg bw/day</p>	
PNEC	<p>Route of exposure: Water Value: 0,79 mg/L Comments: Marine Water</p> <p>Route of exposure: Water Value: 2,75 mg/L Comments: Intermittent releases Water</p> <p>Route of exposure: Water</p>	

	<p>Value: 0,96 mg/L Comments: Fresh Water</p> <p>Route of exposure: Soil Value: 0,63 mg/kg soil dw</p>
Substance	propan-2-ol
DNEL	<p>Group: Consumer Route of exposure: Long term (repeated) – Oral – Systemic effect Value: 26 mg/kg bw/day</p> <p>Group: Worker Route of exposure: Long term (repeated) – Inhalation – Systemic effect Value: 500 mg/m³</p> <p>Group: Consumer Route of exposure: Long term (repeated) – Dermal – Systemic effect Value: 319 mg/kg bw/day</p> <p>Group: Consumer Route of exposure: Long term (repeated) – Inhalation – Systemic effect Value: 89 mg/m³</p> <p>Group: Worker Route of exposure: Long term (repeated) – Dermal – Systemic effect Value: 888 mg/kg bw/day</p>
PNEC	<p>Route of exposure: Soil Comments: 28 mg/kg soil dw</p> <p>Route of exposure: Freshwater Value: 140.9 mg/L</p> <p>Route of exposure: Saltwater Value: 140.9 mg/L</p> <p>Route of exposure: Water Value: 140.9 mg/L Comments: Intermittent releases</p>

8.2. Exposure controls

Safety signs



Respiratory protection

Respiratory protection In case of insufficient ventilation, wear respiratory protective equipment with filter A.

Hand protection

Hand protection Plastic or rubber gloves recommended.

Eye / face protection

Eye protection Wear safety goggles if there is a risk of eye splash.

Skin protection

Skin protection (except hands)	Not required.
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Thermal hazards

Thermal hazards	Aerosol cans can explode.
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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Aerosol
Colour	Red
Odour	Alcohol

9.2. Other information

Physical hazards

Miscibility	Not miscible with water.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Heating may cause a fire or explosion.
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10.2. Chemical stability

Stability	The product is stable when used in accordance with the supplier's directions.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	No risk of hazardous reactions.
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10.4. Conditions to avoid

Conditions to avoid	Avoid heating and contact with ignition sources.
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10.5. Incompatible materials

Materials to avoid	None known.
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10.6. Hazardous decomposition products

Hazardous decomposition products	Mangler oversættelse
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological data for substances

Substance	Ethanol
Acute toxicity	Type of toxicity: Acute

	<p>Effect tested: LD50 Route of exposure: Oral Value: 10470 mg/kg bw Animal test species: rat</p> <p>Type of toxicity: Acute Effect tested: LD50 Route of exposure: Dermal Value: > 20000 mL/kg bw Animal test species: rabbit</p> <p>Type of toxicity: Acute Effect tested: LC50 Route of exposure: Inhalation. Duration: 4 h Value: 124,7 mg/L air Animal test species: rat</p>
Substance	butane
Acute toxicity	<p>Type of toxicity: Acute Effect tested: LC50 Route of exposure: Inhalation. Duration: 2 h Value: 1237 mg/L air Animal test species: Mouse</p>
Substance	propan-2-ol
Acute toxicity	<p>Type of toxicity: Acute Effect tested: LD50 Route of exposure: Oral Value: 5,84 g/kg bw Animal test species: rat</p> <p>Type of toxicity: Acute Effect tested: LD50 Route of exposure: Dermal Value: 16,4 mL/kg bw Animal test species: rabbit</p> <p>Type of toxicity: Acute Effect tested: LC50 Route of exposure: Inhalation. Duration: 6 h Value: > 10000 ppm Animal test species: rat</p>

Other information regarding health hazards

General	The product releases organic solvent vapours. At high concentrations, the vapours may cause headache, dizziness, intoxication and possible unconsciousness.
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Potential acute effects

Inhalation	May cause drowsiness or dizziness.
Skin contact	May cause slight irritation.

Eye contact	Irritating to eyes. Causes a burning sensation and tearing.
Ingestion	Ingestion may cause discomfort.

SECTION 12: Ecological information

12.1. Toxicity

12.2. Persistence and degradability

Substance	Ethanol
Acute aquatic, fish	Value: 14,2 g/L Test duration: 96 h Method: LC50
Acute aquatic, algae	Value: ~ 1,96 g/L Test duration: 96 h Method: EC50
Acute aquatic, Daphnia	Value: 5012 mg/L Test duration: 48 h Method: LC50
Biodegradability	Value: 97 % Method: OECD Guideline 301 B Test period: 28 days
Substance	butane
Acute aquatic, fish	Value: 27,98 mg/L Test duration: 96 h Method: LC50
Acute aquatic, algae	Value: 7,71 mg/L Test duration: 96 h Method: EC50
Acute aquatic, Daphnia	Value: 14,22 mg/L Test duration: 48 h Method: LC50
Biodegradability	Value: 100 % Method: Biodegradation test, (predates, OECD test) Test period: 385,5 h
Substance	propan-2-ol
Acute aquatic, fish	Value: 10000 mg/L Test duration: 96 h Method: LC50
Acute aquatic, Daphnia	Value: > 10000 mg/L Test duration: 24 h Method: LC50
Biodegradability	Value: 53 % Method: EU Method C.5 Test period: 5 days
Persistence and degradability, comments	Readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential	The product is not bioaccumulable.
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12.4. Mobility in soil

Mobility	Test data are not available.
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12.5. Results of PBT and vPvB assessment

PBT assessment results	The mixture does not meet the criteria for PBT or vPvB.
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12.6. Other adverse effects

Other adverse effects, comments	None.
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Specify the appropriate methods of disposal	Do not dispose of aerosol sprays in refuse collection, even when empty. The sprays must be sent to the municipal chemical waste collection facility with the specifications set out below.
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EWC waste code	EWC: 160504 gases in pressure containers (including halons) containing dangerous substances
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SECTION 14: Transport information

14.1. UN number

ADR / RID / ADN	1950
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IMDG	1950
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ICAO / IATA	1950
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Comments	The product is covered by the rules for transport of dangerous goods.
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14.2. UN proper shipping name

ADR / RID / ADN	AEROSOLS
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IMDG	AEROSOLS
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ICAO / IATA	AEROSOLS, FLAMMABLE
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14.3. Transport hazard class(es)

ADR / RID / ADN	2.1
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RID	2.1
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IMDG	2.1
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ICAO / IATA	2.1
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14.4. Packing group

14.5. Environmental hazards

ADR / RID / ADN	-
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14.6. Special precautions for user

EmS	F-D, S-U
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14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

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

Declaration No.	2154821
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15.2. Chemical safety assessment

Chemical safety assessment performed	No
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SECTION 16: Other information

Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	Flam Aerosol 1; H222; Eye Irrit. 2; H319; STOT SE3; H336; ; H229;
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List of relevant R-phrases (under headings 2 and 3).	R36 Irritating to eyes. R11 Highly flammable. R67 Vapours may cause drowsiness and dizziness. R12 Extremely flammable.
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List of relevant H-phrases (Section 2 and 3)	H222 Extremely flammable aerosol. H336 May cause drowsiness or dizziness. H220 Extremely flammable gas. H225 Highly flammable liquid and vapour. H229 Pressurised container: May burst if heated. H319 Causes serious eye irritation.
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Prepared by	Hanne Nielsen.
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