

MSDS MATERIAL SAFETY DATA SHEET		0.1 Product	Adoption Spray
		0.2 Status	Active
		0.3 Version	5
		0.4 Version date	17-07-2025
1. Identification of the substance/mixture and of the company			
1.1 Product identification			
Product name		Adoption Spray	
Trade name		Adoption Spray	
Product code		LAMM0004D	
Chemical description		Mixture	
UFI		YU00-D0KF-X00K-PC5A	
REACH registration number		-	
1.2 Relevant identified uses of the substance or mixture and uses advised against			
Identified use(s)		Masking of body odour.	
Use(s) advised against		Not identified.	
1.3 Details of the supplier of the safety data sheet			
Company identification		Name	Hofman Animal Care B.V.
Contact details		Address	De Leemkoele 2
		Zip code	7468 DM
		Town	Enter
		Country	The Netherlands
		Telephone	+31 (0)548-545277
		E-mail	info@hofmananimalcare.nl
		Website	www.hofmananimalcare.com
1.4 Emergency telephone number			
Emergency telephone number		The Netherlands: National Poisoning Information Centre – Bilthoven TEL: +31 (0)30 274 88 88 Belgium: Antipoison Centre – Brussels TEL: +32 (0)70 245 245 (Only for the purpose of informing medical personnel in case of acute intoxications)	
2. Hazards identification			
2.1 Classification of the substance or mixture			
Classification according to Regulation (EC) no. 1272/2008: Flam. Liq. 2; Flammable liquid, category 2; H225 Eye Irrit. 2; Serious eye damage/eye irritation, category 2; H319 STOT SE 3; Specific target organ toxicity — single exposure, narcotic effect, category 3; H336 Aquatic Chronic 3; Hazardous to the aquatic environment, (chronic), category 3; H412 The full text of the (EU)H-statements can be found in section 16.			
Adverse physicochemical, health and environmental effects Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects.			

*2.2	<u>Label elements</u>
Labelling according to Regulation (EC) no. 1272/2008:	
Hazardous component(s)	Propan-2-ol
Hazard pictogram(s)	 
Signal word	Danger
Hazard statements	H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H412 Harmful to aquatic life with long lasting effects.
Additional hazard statements	EUH208 Contains ethanone/tetramethylacetyloctahydronaphthalenes, hexyl cinnamal, citronellol, linalool, d-limonene, Citrus aurantium peel oil. May produce an allergic reaction.
Precautionary measures	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P271 Use only outdoors or in a well-ventilated area. P405 Store locked up. P501 Dispose of contents/packaging to an approved waste disposal facility.
2.3	<u>Other hazards</u>
Results of PBT and vPvB assessment	Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII.
Endocrine disrupting properties	The mixture does not contain substances included in the list established according to Article 59(1) of REACH for having endocrine-disrupting properties, or one or more substances identified as having endocrine-disrupting properties according to the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605, with a concentration greater than or equal to 0.1%.

3. Composition / information on ingredients

3.1	Substances	Not applicable (mixture).					
*3.2	Mixtures	Contains:					
Name component(s)	Weight %	CAS no.	EINECS no.	Index no.	REACH no.	Classification	
Propan-2-ol; isopropyl alcohol; isopropanol	35-55	67-63-0	200-661-7	603-117-00-0	01-2119457558-25	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	
Ethanone/tetra-methylacetylocta-hydronaphthalenes	0.1-1	54464-57-2	259-174-3	-	01-2119489989-04	Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 1; H410	
Hexyl cinnamal	0.1-1	101-86-0	-	-	01-2119533092-50	Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	
Citronellol	0.1-1	106-22-9	203-375-0	-	01-2119453995-23	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	
Linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool	0.1-1	78-70-6	201-134-4	603-235-00-2	01-2119474016-42	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	
Amyl salicylate	0.1-1	2050-08-0	218-080-2	-	01-2119969444-27	Acute Tox. 4; H302 Aquatic Chronic 1; H410	
(R)-p-mentha-1,8-diene; d-limonene	0.1-1	5989-27-5	227-813-5	601-096-00-2	01-2119529223-47	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 3; H412	
Citrus aurantium peel oil	0,1-1	68916-04-1	614-782-1	-	-	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Skin Irrit.2; H315 Skin Sens. 1; H317 Aquatic Chronic 2; H411	
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno [5,6-c]pyran; galaxolide;(HHCB)	0.1-1	1222-05-5	214-946-9	603-212-00-7	01-2119969275-26	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	

The full text of the (EU)H-statements can be found in section 16.

*Specific concentration limit, multiplication factor, acute toxicity estimation

Name component(s)	CAS no.	SCL, M-factor, ATE
Ethanone/tetra-methylacetylocta-hydronaphthalenes	54464-57-2	M=1
Hexyl cinnamal	101-86-0	M=1
Amyl salicylate	2050-08-0	M=1
R)-p-mentha-1,8-diene; d-limonene	5989-27-5	M=1

4. First aid measures

4.1	Description of first aid measures
General	No information available.
First aid measures in case of inhalation	Get the person into fresh air and make sure the person can breathe easily.

First aid measures in case of skin contact	Rinse/shower skin with water. Remove contaminated clothing immediately.
First aid measures in case of eye contact	Rinse carefully with water for several minutes. Remove contact lenses, if possible. Continue rinsing. In case of persistent eye irritation: consult a physician.
First aid measures in case of ingestion	No information available.
4.2	<u>Most important symptoms and effects, both acute and delayed</u>
Eye irritation.	
4.3	<u>Indication of any immediate medical attention and special treatment needed</u>
Symptomatic treatment.	
5. Firefighting measures	
5.1	<u>Extinguishing media</u>
Suitable extinguishing media	Dry powder, foam, atomised water, carbon dioxide.
Unsuitable extinguishing media	No information available.
5.2	<u>Special hazards arising from the substance or mixture</u>
Special exposure hazards	Highly flammable liquid and vapour.
5.3	<u>Advice for firefighters</u>
Special protective equipment	Do not enter fire zone without suitable safety equipment, including respiratory protection. Do not intervene without suitable safety equipment. Self-contained breathing apparatus. Fully protective clothing.
Special procedures	Use extreme caution when fighting a chemical fire.
6. Accidental release measures	
6.1	<u>Personal precautions, protective equipment and emergency procedures</u>
General measures	Prevent entering sewers, basements, working pits and any place where accumulation is dangerous.
Personal precautions	<i>For non-emergency personnel:</i> Wear recommended personal safety equipment. Ventilate contaminated area. Do not expose to open fire, no sparks and prohibited smoking. Avoid contact with skin and eyes. <i>For emergency responders:</i> Do not intervene without appropriate safety equipment. Use self-contained breathing apparatus and clothing that protects against chemical agents. For further information, see section 8: 'Measures to control exposure/personal protection'.
6.2	<u>Environmental precautions</u>
Environmental precautions	Avoid release into the environment.
6.3	<u>Methods and material for containment and cleaning up</u>
Methods for cleaning up	Absorb remaining liquid with sand or inert absorbent material and dispose of in a safe place.
Other information	Take waste or solid residues to an authorised waste disposal company.
6.4	<u>Reference to other sections</u>
Personal protection	See section 8.
Removal of the waste product	See section 13.
7. Handling and storage	
7.1	<u>Precautions for safe handling</u>
Handling	Ensure good ventilation of the workplace. Keep away from heat, hot surfaces, sparks, open flames and other sources of ignition. Do not smoke. Ground storage and collection container. Use only non-sparking tools. Take precautionary measures against static discharges. Highly flammable vapours may accumulate in the vessel. Use explosion-proof equipment. Wear personal protective equipment. Avoid contact with skin and eyes.

Hygienic measures		Do not eat, drink or smoke while using this product. Always wash hands after handling this product.				
7.2	Conditions for safe storage, including any incompatibilities					
Technical measures		Ground storage- and collection container.				
Storage		Store in a clean, dry and fire-resistant place. Store in a well-ventilated place. Store in a cool place. Keep in tightly closed container.				
Storage temperature		10 – 30 °C.				
Protection against fire and explosion		Keep away from fire and ignition sources.				
Information regarding mixed storage		Store separately.				
Suitable packaging material		Keep in closed container. Keep only in the original container.				
Unsuitable packaging material		No information available.				
7.3	Specific end use(s)					
Follow the operating instructions carefully.						
8. Exposure controls / personal protection						
*8.1	Control parameters					
Occupational exposure limits						
Occupational exposure limit values (Workplace Exposure Limits)						
Cas no	Name of agent	TWA-8h (ppm)	TWA-8h (mg/m³)	TWA- 15 min (ppm)	TWA-15 min (mg/m³)	Source
67-63-0	Propan-2-ol; isopropyl alcohol; isopropanol		500			REACH
		200	500	400	1.000	Koninklijk besluit/Arrêté royal 16/11/2023 (BE)
		200	500	400	1.000	TRGS 900 (DE)
106-22-9	Citronellol		161,3			REACH
78-70-6	Linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool		2,8		16,5	REACH
5989-27-5	(R)-p-mentha-1,8-diene; d-limonene		110			NL
		5	28	20	112	TRGS 900 (DE)
1222-05-5	1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno [5,6-c]pyran; galaxolide;(HHCb)		5,29			REACH
TWA-8h= (time-weighted average) long-term exposure limit; TWA-15 min = short-term exposure limit						
Biological limit values		No additional information available.				
DNELs		No additional information available.				
PNECs		No additional information available.				
Control banding		No additional information available.				
8.2	Exposure controls					
Appropriate engineering controls		Ensure good ventilation of the workplace.				

Personal protection equipment	
Symbols for personal protection equipment	
Eye / face protection	Type: Safety glasses Scope: Droplets Features: With side protection Standard: EN 166
Skin protection	Wear appropriate protective clothing.
Hand protection	Type: Disposable gloves Material: Nitrile rubber (NBR) Permeation: 2 (> 30 minutes) Thickness: 0.4 mm Penetration: 2 (< 1.5) Standard: EN ISO 374
Respiratory protection	If ventilation is inadequate, use suitable respirator.
Thermal hazards	No additional information available.
Environmental exposure controls	Follow directions for use carefully. Avoid release into the environment.
Limitation of consumer exposure	Use appropriate personal protective equipment. Store under lock and key and out of the reach of children.
9. Physical and chemical properties	
9.1	Information on basic physical and chemical properties
Physical state	Liquid.
Colour	Colourless.
Appearance	Clear.
Odour	Perfumed.
Odour threshold value	Not available.
Melting point/freezing point	Freezing point: -21°C.
Boiling point/range (1013 hPa)	Boiling point: >60°C.
Flammability	Not applicable.
Lower and upper explosion limit	Not available.
Flash point	18 °C.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
pH	7
pH concentration of the solution	10 %
Kinematic viscosity	Not available.
Dynamic viscosity	< 10 mPa·s.
Solubility	Soluble in water.
Partition coefficient n-octanol/water	Not available.
Vapour pressure	Not available.
Vapour pressure at 50°C	Not available.
Density	0.85 - 0.9 g/cm ³ .
Relative density	Not available.
Relative vapour density	Not available.
Particle characteristics	Not applicable.
9.2	Other information
Other information	No additional information available.

10. Stability and reactivity

10.1 Reactivity

Reactivity Highly flammable liquid and vapour.

10.2 Chemical stability

Stability Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions Fire hazard with heating.

10.4 Conditions to avoid

Conditions to avoid Avoid contact with hot surfaces. Heat. No flames, no sparks. Remove all sources of ignition.

10.5 Incompatible materials

Materials to avoid No additional information available.

10.6 Hazardous decomposition products

Hazardous decomposition products Under normal storage and use conditions, no hazardous decomposition products will be generated.

11. Toxicological information

*11.1 Information on hazard classes as defined in Regulation (EC) no. 1272/2008

Acute toxicity (oral): not classified.

Acute toxicity (dermal): not classified.

Acute toxicity (inhalation): not classified.

Cas no	Name of substance	Route of exposure	Dosage	Species	Method
67-63-0	Propan-2-ol; isopropyl alcohol; isopropanol	Oral	LD50: 5,840 mg/kg BW	Rat	OECD Guideline 401
		Inhalation (dust/mist)	LC50: >10,000 mg/l/4 u	Rat	OECD 403
78-70-6	Linalool; 3,7- dimethyl-1,6- octadien-3-ol; dl- linalool	Oral	LD50: 2,790 mg/kg BW	Rat	OECD Guideline 401
		Dermal	LD50: 5,610 mg/kg BW	Rabbit	OECD Guideline 402
5989-27-5	(R)-p-mentha-1,8- diene; d-limonene	Oral	LD50: 2,000 mg/kg BW	Rat	OECD Guideline 423

Skin corrosion/irritation Not classified.
pH: 7.

Serious eye damage/irritation Causes serious eye irritation.
pH: 7.

Respiratory or skin sensitisation Not classified.

Germ cell mutagenicity Not classified.

Carcinogenicity Not classified.

Reproductive toxicity Not classified.

Specific target organ toxicity – single exposure May cause drowsiness or dizziness.
67-63-0: Propan-2-ol; isopropyl alcohol; isopropanol
May cause drowsiness or dizziness.

Specific target organ toxicity – repeated exposure

Cas no	Name of substance	Route of exposure	Dosage	h/d	Species	Method
106-22-9	Citronellol	Oral	NOAEL: 2,000 mg/kg BW	90 d	Rat	Guideline: other
78-70-6	Linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool	Dermal	NOAEL: 250 mg/kg BW	90 d	Rat/rabbit	OECD Guideline 401

Aspiration hazard

67-63-0: Propan-2-ol; isopropyl alcohol; isopropanol
 Viscosity, kinematic: 3.177 mm²/s.
78-70-6: Linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool
 Viscosity, kinematic: 5.192 mm²/s.

11.2 Information on other hazards

Other hazards

No additional information available.

12. Ecological information

*12.1 Toxicity

Ecology general: The product is not considered harmful to aquatic organisms and has no long-term adverse effect on the environment.

Aquatic hazard, (acute) short-term: not classified.

Aquatic hazard, long-term (chronic): harmful to aquatic life with long-lasting effects.

Cas no.	Name of substance	Aquatic toxicity	Value	h/d	Species
67-63-0	Propan-2-ol; isopropyl alcohol; isopropanol	Fish	LC50: 9,640 mg/l	-	-
		Other aquatic organisms	EC50: 13,299 mg/l	-	Water flea
		Other aquatic organisms	EC50: >1,000 mg/l	-	-
106-22-9	Citronellol	Fish	LC50: 14.66 mg/l	-	Leuciscus idus
		Crustaceans	EC50: 17.48 mg/l	-	Daphnia magna
		Algae	EC50: 2.4 mg/l	72 h	-
78-70-6	Linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool	Fish	LC50: 27.8 mg/l	-	Oncorhynchus mykiss
		Crustaceans	EC50: 59 mg/l	-	Daphnia magna
		Algae	EC50: 88.3 mg/l	96 h	Desmodesmus subspicatus
		Algae	EC50: 156.7 mg/l	96 h	Desmodesmus subspicatus
5989-27-5	(R)-p-mentha-1,8-diene; d-limonene	Fish	LC50: 720 µg/l	-	Pimephales promelas
		Crustaceans	EC50: 0.36 mg/l	-	-
		Other aquatic organisms	EC50: 3.94 mg/l	-	-
		Algae	EC50: ≈ 8 mg/l	72 h	Desmodesmus subspicatus
		Freshwater invertebrates	NOEC (chronic): 0.115 mg/l	16 d	Daphnia magna or Daphnia pulex

*12.2 Persistence and degradability

Persistence and degradability

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No 648/2004 on detergents.

Name of substance	Cas no	Persistence and degradability	BOD (% from ThOD)	Biodegradation
Propan-2-ol; isopropyl alcohol; isopropanol	67-63-0	Rapidly degradable	53% ThOD	95% (OECD 301E)
Ethanone/tetra-methylacetylocta-hydronaphthalenes	54464-57-2	Rapidly degradable	-	-
Hexyl cinnamal	101-86-0	Rapidly degradable	-	-
Citronellol	106-22-9	Rapidly degradable	-	-
Linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool	78-70-6	Rapidly degradable	-	-
Amyl salicylate	2050-08-0	Rapidly degradable	-	-
(R)-p-mentha-1,8-diene; d-limonene	5989-27-5	Rapidly degradable	-	71% (OECD 301B)
1,3,4,6,7,8-hexahydro4,6,6,7,8-hexamethylindeno[5,6-c]pyran; galaxolide;(HHCb)	1222-05-5	Rapidly degradable	-	-

*12.3 Bioaccumulative potential

Name of substance	Cas no	Partition coefficient n-octanol/water (Log Pow)
Propan-2-ol; isopropyl alcohol; isopropanol	67-63-0	0.05 OECD 107
Citronellol	106-22-9	3.1
(R)-p-mentha-1,8-diene; d-limonene	5989-27-5	4.2

12.4 Mobility in soil

Name of substance	Cas no	Surface tension
Propan-2-ol; isopropyl alcohol; isopropanol	67-63-0	22.7 mN/m

12.5 Results of PBT and vPvB assessment

Assessment

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII.

12.6 Endocrine disrupting properties

Endocrine disrupting potential

The mixture does not contain substances included in the list established according to Article 59(1) of REACH for having endocrine-disrupting properties, or one or more substances identified as having endocrine-disrupting properties according to the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605, with a concentration greater than or equal to 0.1%.

12.7 Other adverse effects

No additional information available.

13. Disposal considerations

13.1 Waste treatment methods

Regional waste regulation	Dispose of waste in accordance with legal provisions.
Waste from residues / unused products	Dispose of in a safe manner in accordance with local/national regulations. Dispose of contents/packaging in accordance with the sorting instructions of an authorised collection company. If recycling is not possible, dispose of in accordance with local waste disposal regulations.
European list of waste products	20 01 29* - detergents containing hazardous substances.
Removal of contaminated packaging	Empty containers can be disposed of as waste after cleaning in accordance with local regulations.
Additional information	Highly flammable vapours may accumulate in the container.
Ecological information	Avoid release into the environment.

14. Transport information

Transport by road, by rail and inland waterway transport (ADR/RID/ADN)	14.1 UN-number: 14.2 UN proper shipping name: 14.3 Transport hazard class(es): 14.4 Packing group:	UN 1993 FLAMMABLE LIQUID, N.O.S. (propan-2-ol) 3 III Danger label: 3 
Marine transport (IMDG)	14.1 UN-number: 14.2 UN proper shipping name: 14.3 Transport hazard class(es): 14.4 Packing group:	UN 1993 FLAMMABLE LIQUID, N.O.S. (propan-2-ol) 3 III Danger label: 3 
Air transport (ICAO-IATA)	14.1 UN-number: 14.2 UN proper shipping name: 14.3 Transport hazard class(es): 14.4 Packing group:	UN 1993 FLAMMABLE LIQUID, N.O.S. (propan-2-ol) 3 III Danger label: 3 

14.5 Environmental hazards

Environmental hazard	No.
Marine pollutant	No.

14.6 Special precautions for user

Road transport

Classification code (ADR): F1
 Special provisions (ADR): 274, 601
 Limited quantities (ADR): 5I
 Exempt quantities (ADR): E1
 Packing instructions (ADR): P001, IBC02, R001
 Special packaging requirements (ADR): BB4
 Mixed packing requirements (ADR): MP19
 Transport category (ADR): 3
 Special provisions for transport - company (ADR): S2
 Tunnel restriction code (ADR): E

Transport on the open sea

Special provision (IMDG): 223, 274, 955
 Limited quantities (IMDG): 5 I
 Exceptional quantities (IMDG): E1
 Packing instructions (IMDG): LP01, P001
 Packing instructions IBC (IMDG): IBC03
 Instructions for tanks (IMDG): T4
 Special provisions for tanks (IMDG): TP1, TP29
 EmS: F-E, S-E
 Stowage category (IMDG): A

Air transport

PCA Expected quantities (IATA): E1
 PCA Restricted quantities (IATA): Y344
 PCA restricted quantity max. net quantity (IATA): 10L
 PCA packaging requirements (IATA): 355
 PCA max. net quantity (IATA): 60L
 CAO packing requirement (IATA): 366
 CLA max. net quantity (IATA): 220L
 Special provisions (IATA): A3
 ERG code (IATA): 3L

Transport in inland waters

Classification code (ADN): F1
 Special provision (ADN): 274, 601
 Limited quantities (ADN): 5 I
 Exceptional quantities (ADN): E1
 Authorised transport (ADN): T
 Equipment required (ADN): PP, EX, A
 Ventilation (ADN): VE01
 Number of blue cones/lights (ADN): 0

Railway transport

Classification code (RID): F1
 Special provision (RID): 274, 601
 Restricted quantities (RID): 5 I
 Exceptional quantities (RID): E1
 Packaging instructions (RID): P001, IBC03, LP01, R001
 Special requirements for mixed packing (RID): MP19
 Instructions for portable tanks and bulk containers (RID): T4
 Special provisions for portable tanks and bulk containers (RID): TP1, TP29

Tank codes for transport tanks (RID): LGBF
 Transport category (RID): 3
 Special provisions for transport - packages (RID): W12
 Express parcels (RID): CE4
 Hazard identification number (RID): 30

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

15. Regulatory information

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

Relevant EU rule(s)	<i>REACH Annex XVII (restricted substances):</i> Does not contain substance(s) listed in REACH Annex XVII (restricted use substances). <i>REACH Annex XIV (list of substances subject to authorisation):</i> Does not contain substance(s) included in REACH Annex XIV (list of substances subject to authorisation). <i>REACH candidate list (SVHC):</i> Does not contain substance(s) included in the REACH candidate list <i>PIC regulation (prior informed consent):</i> Contains no substances included in the PIC list (Regulation EU 649/2012 on export and import of dangerous chemicals) <i>POPs Regulation (persistent organic pollutants):</i> Does not contain any substances included in the POP list (EU Regulation 2019/1021 on organic pollutants) <i>Ozone regulation (1005/2009):</i> Does not contain any substances included in the list of ozone depleting substances (EU Regulation 1005/2009 on substances that deplete the ozone layer) <i>Dual-use Regulation (428/2009):</i> Does not contain any substance covered by COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items. <i>Regulation on explosives precursors (2019/1148):</i> Does not contain any substances listed as explosives precursors (Regulation EU 2019/1148 on the marketing and use of explosives precursors) <i>Drug precursors regulation (273/2004):</i> Does not contain any substance covered by Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and placing on the market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.
National regulations	Netherlands <i>ABM Category:</i> B(4) - Little harmful to aquatic organisms. <i>SZW list of carcinogenic substances:</i> None of the constituents are present. <i>SZW list of mutagenic substances:</i> None of the constituents are present. <i>SZW list of reprotoxic substances - Breastfeeding:</i> None of the constituents are present. <i>SZW list of reprotoxic substances - Fertility:</i> None of the constituents are present. <i>SZW list of reprotoxic substances - Development:</i> None of the constituents are present.

15.2 Chemical safety assessment

No chemical safety assessment carried out.

16. Other information

*Indication of changes (revised safety data sheet)	Alignment to regulation. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU. Sections with changes are marked with an *.
Sources of used key data	This information is based on the currently available information (Producer(s)). See also the website: https://echa.europa.eu/information-on-chemicals/registered-substances

*(EU)H-statement(s)	H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H400 Very toxic to aquatic life H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects H412 Harmful to aquatic life with long lasting effects. EUH208 Contains ethanone/tetramethylacetyloctahydronaphthalenes, hexyl cinnamal, citronellol, linalool, d-limonene, Citrus aurantium peel oil. May produce an allergic reaction.
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Classification procedure	Classification and procedure used to determine the classification of mixtures in accordance with Regulation (EC) 1272/2008 [CLP]:		
	Flam. Liq. 2	H225	Calculation method
	Eye Irrit. 2	H319	Calculation method
	STOT SE 3	H336	Calculation method
	Aquatic Chronic 3	H412	Calculation method
	The classification is in accordance with: ATP 12.		

List of abbreviations and acronyms	ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways. ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. ADR/RID/ADN: Agreements concerning the International Carriage of Dangerous Goods by Road/Rail/Inland Waterways. Asp. Tox.: Aspiration hazard. Aquatic Acute: Hazardous to the aquatic environment – acute hazard. Aquatic Chronic: Hazardous to the aquatic environment – chronic hazard. ATE: Acute toxicity estimate. ATP: Adaptation to Technical Progress. BCF: Bio-concentration factor. BOD: Biochemical oxygen demand. BW: Body weight. CAS: Chemical Abstracts Service. CLP: Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008. DGR: Dangerous Goods Regulations. DNEL: Derived No Effect Level. DMEL: Derived Minimal Effect Level. EC50: Effective Concentration 50%.
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MSDS

Material Safety Data Sheet

EC-No.: The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union).
 EINECS: European Inventory of Existing Commercial Chemical Substances.
 ELINCS: European List of Notified Chemical Substances.
 Eye Irrit.: Serious eye irritation.
 Flam. Liq.: Flammable liquid.
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals.
 IATA: International Air Transport Association (provisions concerning the international carriage of dangerous goods by air).
 IATA/DGR: Dangerous Goods Regulations (DGR) for the air transport (IATA).
 ICAO: International Civil Aviation Organization.
 ICAO-TI: Technical instructions for the safe transport of dangerous goods by air.
 IMDG: International Maritime Dangerous Goods Code.
 LC50: Lethal Concentration to 50 % of a test population.
 LD50: Lethal Dose to 50% of a test population.
 Log KOW: n-Octanol/water.
 M-factor: Multiplication factor.
 mN/m: Millinewton/meter.
 NOAEL: No Observed Adverse Effect Level.
 OECD: Organisation for Economic Co-operation and Development.
 PBT: Persistent, Bioaccumulative and Toxic substance.
 PNEC: Predicted No Effect Concentration.
 REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.
 RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.
 SCL: Specific concentration limit.
 Skin Irrit.: Skin irritation.
 Skin Sens.: Skin sensitization.
 STOT SE: Specific target organ toxicity —single exposure.
 SVHC: Substances of Very High Concern.
 ThOD: Theoretical oxygen demand.
 vPvB: Very Persistent and Very Bioaccumulative.

This information is to our knowledge correct and complete on the date of issue of this safety data sheet. The information only concerns the product and does not give any guarantee for the quality and the completeness of the properties of the product, or in case of mixing or using in any other process. It remains the responsibility of the user to assure himself that the information is suitable and complete concerning the special use he makes of the product.
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