

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Wespen-Spray-Ex

Print date: 06.10.2017

ID no.: 171

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Wespen-Spray-Ex

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

Biocide, Insecticide

1.3. Details of the supplier of the safety data sheet

Company name: Detia Freyberg GmbH
Street: Dr.-Werner-Freyberg-Straße 11
Place: D-69514 Laudenbach
Telephone: +49-6201-708-0 Telefax: +49-6201-708-427
e-mail: sicherheitsdatenblaetter@Detia-Freyberg.de

1.4. Emergency telephone number:

Medical Emergency information in case of poisoning: Poison Information Center
Mainz - Phone: +49 (0) 6131 19240 (advisory service 24/7 in German or English language)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Flammable gas: Flam. Gas 1

Serious eye damage/eye irritation: Eye Irrit. 2

Respiratory or skin sensitisation: Skin Sens. 1

Specific target organ toxicity - single exposure: STOT SE 2

Hazardous to the aquatic environment: Aquatic Acute 1

Hazardous to the aquatic environment: Aquatic Chronic 1

Hazard Statements:

Extremely flammable aerosol.

Causes serious eye irritation.

May cause an allergic skin reaction.

May cause drowsiness or dizziness.

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

2.2. Label elements**Regulation (EC) No. 1272/2008****Hazard components for labelling**

butane

propan-2-ol; isopropyl alcohol; isopropanol

m-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate, permethrin

Signal word: Danger**Pictograms:****Hazard statements**

H222 Extremely flammable aerosol.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

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H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Special labelling of certain mixtures

EUH066	Repeated exposure may cause skin dryness or cracking.
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Additional advice on labelling

Container is under pressure. Protect from sunlight and temperatures above 50 ° C. Even after use not puncture or incinerate. Do not spray into flames or any incandescent material. Sources of ignition - Do not smoke! Without adequate ventilation formation of explosive mixtures may be possible. Keep out of the reach of children.

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Container is under pressure. Protect from sunlight and temperatures above 50 ° C. Even after use not puncture or incinerate. Do not spray into flames or any incandescent material. Sources of ignition - Do not smoke! Without adequate ventilation formation of explosive mixtures may be possible. Keep out of the reach of children.

SECTION 3: Composition/information on ingredients**3.2. Mixtures**

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Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol			15-<20%
	200-661-7	603-117-00-0		
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336			
64741-65-7	hydrocarbons, C11-C12, iso-Alkane, <2% Aromatenhydrocarbons, C11-C12, iso-Alkane, <2% Aromaten			10-<20%
	918-167-1			
	Flam. Liq. 3, Asp. Tox. 1, Aquatic Chronic 4; H226 H304 H413			
109-66-0	pentane			3-<10%
	203-692-4	601-006-00-1		
	Flam. Liq. 2, Asp. Tox. 1, STOT SE 3, Aquatic Chronic 2; H225 H304 H336 H411 EUH066			
64742-49-0	Hydrocarbons, C6, isoalkanes, <5% n-hexane			3-<10%
	931-254-9			
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411			
110-82-7	cyclohexane			2,5-<3%
	203-806-2	601-017-00-1		
	Flam. Liq. 2, Asp. Tox. 1, Skin Irrit. 2, STOT SE 3, Aquatic Acute 1, Aquatic Chronic 1; H225 H304 H315 H336 H400 H410			
124-38-9	Carbon dioxide			2,5-<3%
	Compressed gas; H280			
52645-53-1	m-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate, permethrin			1,835%
	258-067-9	613-058-00-2		
	Acute Tox. 4, Acute Tox. 4, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H332 H302 H317 H400 H410			
8003-34-7	Pyrethrins (ex natural pyrethrum)			0,917%
	Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Asp. Tox. 1, Aquatic Chronic 1 (M-Factor = 1000); H332 H315 H319 H317 H304 H410			
110-54-3	n-hexane			0,3-<1%
	203-777-6	601-037-00-0		
	Flam. Liq. 2, Repr. 2, Asp. Tox. 1, STOT RE 2, Skin Irrit. 2, STOT SE 3, Aquatic Chronic 2; H225 H361f *** H304 H373 ** H315 H336 H411			

Full text of H and EUH statements: see section 16.

Further Information

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove casualty to fresh air and keep warm and at rest.

After inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

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After contact with skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

After contact with eyes

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

After ingestion

Do NOT induce vomiting. Call a physician immediately.

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

No data available

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

This information is not available.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Water. Carbon dioxide (CO₂). Foam. Extinguishing powder.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Combustible. Vapours may form explosive mixtures with air. Heating causes rise in pressure with risk of bursting.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protective suit.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment.

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Ventilate affected area.

6.4. Reference to other sections

SECTION 7: Handling and storage SECTION 8: Exposure controls/personal protection SECTION 13: Disposal considerations

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours may form explosive mixtures with air.

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7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from sources of ignition - No smoking. The official regulations on storing packagings with pressurized containers shall be observed.

Advice on storage compatibility

Do not store with self-igniting materials. Do not store with flammable liquids or flammable substances. Do not store together with animal feedstuffs. Do not store explosive materials. Do not store with infectious substances. Do not store with radioactive materials. Do not store together with toxic liquids or toxic solids. Do not store together with food. Do not store with oxidizing liquids or oxidizing solids.

Further information on storage conditions

Store in a cool dry place.

7.3. Specific end use(s)

No further relevant information.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL
124-38-9	Carbon dioxide	5000	9150		TWA (8 h)	WEL
		15000	27400		STEL (15 min)	WEL
110-82-7	Cyclohexane	100	350		TWA (8 h)	WEL
		300	1050		STEL (15 min)	WEL
109-66-0	Pentane	600	1800		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		STEL (15 min)	WEL
8003-34-7	Pyrethrum (purified of sensitising lactones)	-	1		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL
110-54-3	n-Hexane	20	72		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

Additional advice on limit values

Based on references valid during the compilation.

8.2. Exposure controls

Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

Eye/face protection

Tightly sealed safety glasses.

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Hand protection

Wear suitable gloves.

Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	Aerosol
Colour:	colourless
Odour:	characteristic

Test method

pH-Value:	n.a.
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Changes in the physical state

Melting point:	n.a.
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Initial boiling point and boiling range:	-44 °C
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Sublimation point:	n.a.
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Softening point:	n.a.
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Flash point:	n.a.
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Flammability

Solid:	n.a.
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Gas:	n.a.
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Lower explosion limits:	0,8 vol. %
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Upper explosion limits:	12,0 vol. %
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Ignition temperature:	250 °C
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Oxidizing properties

No data available

Vapour pressure:	n.a.
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Density (at 20 °C):	ca. 0,681 g/cm ³
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Bulk density:	n.a.
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Water solubility:	Immiscible
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Solubility in other solvents

n.a.

Partition coefficient:	n.a.
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Viscosity / dynamic:	n.a.
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Solvent content:	VOC (EU) 93,6%
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9.2. Other information

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

SECTION 10: Stability and reactivity**10.1. Reactivity**

No data available

10.2. Chemical stability

No data available

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10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

Keep away from heat. Ignition hazard.

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

No data available

Further information

storage stability : min. 24 Month

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution

No data available

Acute toxicity

CAS No	Chemical name			
	Exposure route	Dose	Species	Source
109-66-0	pentane			
	inhalative (4 h) vapour	LC50 364 mg/l	Ratte	GESTIS
52645-53-1	m-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate, permethrin			
	oral	ATE 500 mg/kg		
	inhalative gas	ATE 4500 ppm		
8003-34-7	Pyrethrins (ex natural pyrethrum)			
	inhalative gas	ATE 4500 ppm		

Irritation and corrosivity

Irritant to skin and mucous membranes.

Sensitising effects

May cause sensitization by skin contact.

Specific effects in experiment on an animal

No data available

Additional information on tests

Irritant

SECTION 12: Ecological information

12.1. Toxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CAS No	Chemical name				
	Aquatic toxicity	Dose	[h] [d]	Species	Source
109-66-0	pentane				
	Acute crustacea toxicity	EC50 9,74 mg/l	48 h	Daphnia magna	IUCLID
110-54-3	n-hexane				
	Acute fish toxicity	LC50 2,5 mg/l	96 h	Pimephales promelas	Geiger et al. 1990

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12.2. Persistence and degradability

No further relevant information.

12.3. Bioaccumulative potential

No further relevant information.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
109-66-0	pentane	3,39
110-54-3	n-hexane	3,9

12.4. Mobility in soil

No further relevant information.

12.5. Results of PBT and vPvB assessment

not applicable

12.6. Other adverse effects

No further relevant information.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

Waste disposal number of waste from residues/unused products

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances
Classified as hazardous waste.

Waste disposal number of contaminated packaging

150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

restentleerte Aerosoldosen: Wertstoffsammlung

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:

UN1950

14.3. Transport hazard class(es):

2 5F Gase

Hazard label:

2.1



Classification code:

5F

Limited quantity:

1L

Transport category:

2

Tunnel restriction code:

D

Marine transport (IMDG)

14.1. UN number:

UN1950

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14.2. UN proper shipping name: AEROSOLS

14.3. Transport hazard class(es): 2

14.4. Packing group: -

Hazard label: 2, see SP63

Special Provisions: 63, 190, 277, 327, 344, 959

Limited quantity: See SP277

EmS: F-D, S-U

Other applicable information (marine transport)

Limited quantity: E0

Air transport (ICAO)

14.1. UN number: UN1950

14.2. UN proper shipping name: AEROSOLS, flammable

14.3. Transport hazard class(es): 2.1

Hazard label: 2.1



14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes



14.6. Special precautions for user

Warning: Gases

SECTION 15: Regulatory information

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

EU regulatory information

2004/42/EC (VOC): 28 % (190,68 g/l)

National regulatory information

Water contaminating class (D): 2 - water contaminating

Biocide registry number: N-14630; CHZN0795

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

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GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Relevant H and EUH statements (number and full text)

H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
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.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure.
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.
H413	May cause long lasting harmful effects to aquatic life.
EUH066	Repeated exposure may cause skin dryness or cracking.

Further Information

The particulars given in the Material Safety Data Sheet only apply to the described product in connection with its appropriate utilization. These particulars are based on the latest state of our knowledge and information. In particular, they serve the purpose of describing our product under the aspect of hazards caused by such product and pertaining safety actions. They do not constitute any guarantee of product quality and/or quality features. The particulars given in this Material Safety Data Sheet are required in accordance with article 31 and annex II of the Regulation (EC) No 1907/2006.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)