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

1.1 Product identifier

Trade name : FLYING INSECT KILLER

Product code : Article/SKU: 79203705 UVP: 05685493 Specification:

102000012978

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

Use of the Sub- :

stance/Mixture

: Insecticide

Recommended restrictions

on use

: Not applicable

1.3 Details of the supplier of the safety data sheet

Company : 2022 Environmental Science FR SAS

Milton Hall, Ely Rd., Milton

CB24 6WZ Cambridge, United Kingdom

Telephone : 00800-1214-9451 (UK)

E-mail address of person

responsible for the SDS

: service.clients.es.france@envu.com

1.4 Emergency telephone number

+44 20 3807 3798

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Aerosols, Category 1 H222: Extremely flammable aerosol.

H229: Pressurised container: May burst if heated.

Short-term (acute) aquatic hazard, Cate-

gory 1

H400: Very toxic to aquatic life.

Long-term (chronic) aquatic hazard, Cat-

egory 1

H410: Very toxic to aquatic life with long lasting

effects.

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2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms





Signal word : Danger

Hazard statements : H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.H410 Very toxic to aquatic life with long lasting effects.

Supplemental Hazard

Statements

EUH066

Repeated exposure may cause skin dryness or

cracking.

Precautionary statements : 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.

P261 Avoid breathing spray.

P271 Use only outdoors or in a well-ventilated area.

Response:

P391 Collect spillage.

Storage:

P410 + P412 Protect from sunlight. Do not expose to tem-

peratures exceeding 50 °C/ 122 °F.

Additional Labelling

EUH401 To avoid risks to human health and the environment, comply with the instruc-

tions for use.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Cutaneous sensations may occur, such as burning or stinging on the face and mucosae. However, these sensations cause no lesions and are of a transitory nature (max. 24 hours).

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Aerosol dispenser (AE)

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Components

Chemical name	CAS-No.	Classification	Concentration
- Chemical hame	EC-No.		(% w/w)
	Index-No.		(** *)
	Registration number		
Hydrocarbons, C12-C16, isoalkanes,	Not Assigned	Asp. Tox. 1; H304	>= 1 - < 10
cyclics, <2% aromatics	l		
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	01-2119456377-30		
Hydrocarbons, C11-C13, isoalkanes,	246538-78-3	Asp. Tox. 1; H304	>= 1 - < 10
<2% aromatics			
	01-2119456810-40		
1R-trans Phenothrin	26046-85-5	Aquatic Acute 1;	>= 0.25 - < 1
	247-431-2	H400	
		Aquatic Chronic 1;	
		H410	
		M-Factor (Acute	
		aquatic toxicity):	
		100	
		M-Factor (Chronic	
d Tatas as athesis	4400 40 7	aquatic toxicity): 10	0.05
d-Tetramethrin	1166-46-7 214-619-0	Acute Tox. 4; H302	>= 0.25 - < 1
	607-728-00-3	Carc. 2; H351 STOT SE 2; H371	
	007-720-00-3	(Nervous system)	
		Aquatic Acute 1;	
		H400	
		Aquatic Chronic 1;	
		H410	
		M-Factor (Acute	
		aquatic toxicity):	
		100	
		M-Factor (Chronic	
		aquatic toxicity):	
		100	
Substances with a workplace exposure	e limit :		
Butane	106-97-8	Flam. Gas 1A;	>= 20 - < 30
	203-448-7	H220	
	601-004-00-0	Press.	
		Gas Liquefied gas;	
		H280	

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : In the case of accident or if you feel unwell, seek medical ad-

vice immediately.

When symptoms persist or in all cases of doubt seek medical

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advice.

Protection of first-aiders : First Aid responders should pay attention to self-protection,

and use the recommended personal protective equipment when the potential for exposure exists (see section 8).

If inhaled : If inhaled, remove to fresh air.

Get medical attention.

In case of skin contact : In case of contact, immediately flush skin with soap and plenty

of water.

Remove contaminated clothing and shoes.

Get medical attention. Wash clothing before reuse.

Thoroughly clean shoes before reuse.

In case of eye contact : Flush eyes with water as a precaution.

Get medical attention if irritation develops and persists.

If swallowed : If swallowed, DO NOT induce vomiting.

Get medical attention.

Rinse mouth thoroughly with water.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : sneezing

The product causes irritation of eyes, skin and mucous mem-

branes. Cough

Skin and eye paraesthesia which may be severe Usually transient with resolution within 24 hours

hypotension

Nausea Vomiting Headache

Abdominal pain Diarrhoea Convulsions

Dizziness Coma Somnolence Tremors tachycardia

muscle twitching Blurred vision lethargy

discomfort in the chest Pulmonary oedema

anorexia

Airway hyperreaction

Prostration Palpitation

Inhalation may provoke the following symptoms:

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Symptoms and hazards refer to effects observed after intake

of significant amounts of the active ingredient(s).

Aspiration may cause pulmonary oedema and pneumonitis.

Symptoms and hazards refer to the solvent.

Risks Repeated exposure may cause skin dryness or cracking.

This product contains a pyrethroid.

Pyrethroid poisoning should not be confused with carbamate

or organophosphate poisoning.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment There is no specific antidote available.

> In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium

sulphate is always advisable.

Oxygen or artificial respiration if needed.

Keep respiratory tract clear.

In case of convulsions, a benzodiazepine (e.g. diazepam)

should be given according to standard regimens.

Monitor: respiratory and cardiac functions.

Contraindication: atropine.

Recovery is spontaneous and without sequelae. Contraindication: derivatives of adrenaline. If not effective, phenobarbital may be used.

In case of aspiration intubation and bronchial lavage should

be considered.

Monitor: kidney, liver and pancreas function.

In case of skin irritation, application of oils or lotions containing

vitamin E may be considered.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water spray

> Alcohol-resistant foam Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

Flash back possible over considerable distance.

Vapours may form explosive mixtures with air.

Exposure to combustion products may be a hazard to health. If the temperature rises there is danger of the vessels bursting

due to the high vapor pressure.

Hazardous combustion prod- : Carbon oxides

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5.3 Advice for firefighters

Special protective equipment :

for firefighters

In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

Specific extinguishing meth-

ods

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment. Use water spray to cool unopened containers.

Remove undamaged containers from fire area if it is safe to do

SO.

Evacuate area.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Remove all sources of ignition.

Use personal protective equipment.

Follow safe handling advice (see section 7) and personal pro-

tective equipment recommendations (see section 8).

6.2 Environmental precautions

Environmental precautions : Avoid release to the environment.

Prevent further leakage or spillage if safe to do so.

Prevent spreading over a wide area (e.g. by containment or oil

barriers).

Retain and dispose of contaminated wash water.

If spillage enters rivers or watercourses, inform the Environment Agency (emergency telephone number 0800 807060).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Non-sparking tools should be used.

Soak up with inert absorbent material.

Suppress (knock down) gases/vapours/mists with a water

spray jet.

For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor-

bent.

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter-

mine which regulations are applicable.

Sections 13 and 15 of this SDS provide information regarding

certain local or national requirements.

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6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures See Engineering measures under EXPOSURE

CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation Use only with adequate ventilation.

> If advised by assessment of the local exposure potential, use only in an area equipped with explosion-proof exhaust ventila-

tion.

Advice on safe handling Do not get on skin or clothing.

Avoid breathing spray.

Do not swallow.

Avoid contact with eyes.

Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as-

sessment

Keep away from heat, hot surfaces, sparks, open flames and

other ignition sources. No smoking.

Take precautionary measures against static discharges.

Take care to prevent spills, waste and minimize release to the

environment.

Do not spray on an open flame or other ignition source.

If exposure to chemical is likely during typical use, provide eye Hygiene measures

> flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contami-

nated clothing before re-use.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Keep in a cool, well-ventilated place. Store in accordance with

the particular national regulations. Do not pierce or burn, even

after use. Keep cool. Protect from sunlight.

Advice on common storage Do not store with the following product types:

Self-reactive substances and mixtures

Organic peroxides Oxidizing agents Flammable solids Pyrophoric liquids Pyrophoric solids

Self-heating substances and mixtures

Substances and mixtures, which in contact with water, emit

flammable gases

Explosives Gases

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7.3 Specific end use(s)

Specific use(s) : Refer to the label and/or leaflet.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis		
Butane	106-97-8	TWA	600 ppm 1,450 mg/m3	GB EH40		
	Further informage.	Further information: Capable of causing cancer and/or heritable genetic damage.				
		STEL	750 ppm 1,810 mg/m3	GB EH40		
	Further informage.	Further information: Capable of causing cancer and/or heritable genetic damage.				

8.2 Exposure controls

Engineering measures

Ensure adequate ventilation, especially in confined areas.

Minimize workplace exposure concentrations.

If advised by assessment of the local exposure potential, use only in an area equipped with explosion-proof exhaust ventilation.

Personal protective equipment

Eye/face protection : Wear the following personal protective equipment:

Safety glasses

Equipment should conform to BS EN 166

Hand protection

Material : Nitrile rubber
Break through time : > 480 min
Glove thickness : > 0.4 mm

Directive : Equipment should conform to BS EN 374

Remarks : Choose gloves to protect hands against chemicals depending

on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of

cuts, abrasion, and the contact time.

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Skin and body protection : Select appropriate protective clothing based on chemical re-

sistance data and an assessment of the local exposure poten-

tial.

Wear the following personal protective equipment:

If assessment demonstrates that there is a risk of explosive atmospheres or flash fires, use flame retardant antistatic pro-

tective clothing.

Skin contact must be avoided by using impervious protective

clothing (gloves, aprons, boots, etc).

Respiratory protection : If adequate local exhaust ventilation is not available or expo-

sure assessment demonstrates exposures outside the rec-

ommended guidelines, use respiratory protection. Equipment should conform to BS EN 14387

Filter type : Organic vapour type (A)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : aerosol

Propellant : Butane, propane, Isobutane

Colour : No data available

Odour : No data available

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

Initial boiling point and boiling :

range

Not applicable

Flash point : $< -60.00 \, ^{\circ}\text{C}$

Evaporation rate : Not applicable

Flammability (solid, gas) : Extremely flammable aerosol.

Upper explosion limit / Upper

flammability limit

8.40 %(V)

Lower explosion limit / Lower :

flammability limit

1.80 %(V)

Vapour pressure : Not applicable

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Relative vapour density : 2.90

0.81 g/cm3 (20.00 °C) Density

Solubility(ies)

Water solubility slightly soluble

Partition coefficient: n-

octanol/water

Not applicable

Auto-ignition temperature 288.0 °C

Decomposition temperature No data available

Viscosity

Viscosity, kinematic Not applicable

Explosive properties Not explosive

Oxidizing properties The substance or mixture is not classified as oxidizing.

9.2 Other information

Particle size Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions Extremely flammable aerosol.

Vapours may form explosive mixture with air.

If the temperature rises there is danger of the vessels bursting

due to the high vapor pressure.

Can react with strong oxidizing agents.

10.4 Conditions to avoid

Conditions to avoid Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid **Bases**

Oxidizing agents

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of : Inhalation

exposure

Skin contact Ingestion Eye contact

Acute toxicity

Not classified based on available information.

Components:

Hydrocarbons, C12-C16, isoalkanes, cyclics, <2% aromatics:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Method: OECD Test Guideline 401

Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat): > 4.951 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

Remarks: Based on data from similar materials

Hydrocarbons, C11-C13, isoalkanes, <2% aromatics:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Method: OECD Test Guideline 401

Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat): > 4,951 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rabbit): > 3,160 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

Remarks: Based on data from similar materials

d-Tetramethrin:

Acute oral toxicity : LD50 (Mouse, female): 1,040 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 1.18 mg/l

Exposure time: 3 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg

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Butane:

Acute inhalation toxicity : LC50 (Rat): 570000 ppm

Exposure time: 15 min Test atmosphere: gas

Remarks: Based on data from similar materials

Skin corrosion/irritation

Not classified based on available information.

Product:

Species : Rabbit

Result : No skin irritation

Remarks : Based on data from similar materials

Result : Repeated exposure may cause skin dryness or cracking.

Components:

Hydrocarbons, C12-C16, isoalkanes, cyclics, <2% aromatics:

Species : Rabbit

Result : No skin irritation

Remarks : Based on data from similar materials

Assessment : Repeated exposure may cause skin dryness or cracking.

Hydrocarbons, C11-C13, isoalkanes, <2% aromatics:

Species : Rabbit

Result : Mild skin irritation

Remarks : Based on data from similar materials

Assessment : Repeated exposure may cause skin dryness or cracking.

Remarks : Based on data from similar materials

d-Tetramethrin:

Species : Rabbit

Result : No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Species : Rabbit

Result : No eye irritation

Remarks : Based on data from similar materials

Components:

Hydrocarbons, C12-C16, isoalkanes, cyclics, <2% aromatics:

Species : Rabbit

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Method : OECD Test Guideline 405

Result : No eye irritation

Remarks : Based on data from similar materials

Hydrocarbons, C11-C13, isoalkanes, <2% aromatics:

Species : Rabbit

Method : OECD Test Guideline 405

Result : No eye irritation

Remarks : Based on data from similar materials

d-Tetramethrin:

Species : Rabbit

Result : No eye irritation

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Product:

Exposure routes : Skin contact Species : Guinea pig Result : negative

Remarks : Based on data from similar materials

Components:

Hydrocarbons, C12-C16, isoalkanes, cyclics, <2% aromatics:

Test Type : Maximisation Test
Exposure routes : Skin contact
Species : Guinea pig
Result : negative

Remarks : Based on data from similar materials

Hydrocarbons, C11-C13, isoalkanes, <2% aromatics:

Test Type : Maximisation Test
Exposure routes : Skin contact
Species : Guinea pig
Result : negative

Remarks : Based on data from similar materials

d-Tetramethrin:

Test Type : Buehler Test
Exposure routes : Skin contact
Species : Guinea pig
Result : negative

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Germ cell mutagenicity

Not classified based on available information.

Components:

Hydrocarbons, C12-C16, isoalkanes, cyclics, <2% aromatics:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Result: negative

Remarks: Based on data from similar materials

Hydrocarbons, C11-C13, isoalkanes, <2% aromatics:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test

Result: negative

Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo

cytogenetic assay) Species: Mouse

Application Route: Ingestion

Result: negative

Remarks: Based on data from similar materials

d-Tetramethrin:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Result: negative

Genotoxicity in vivo : Test Type: Mutagenicity (in vivo mammalian bone-marrow

cytogenetic test, chromosomal analysis)

Species: Mouse

Application Route: Intraperitoneal injection

Result: negative

Butane:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Method: OECD Test Guideline 471

Result: negative

Test Type: Chromosome aberration test in vitro

Method: OECD Test Guideline 473

Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo

cytogenetic assay) Species: Rat

Application Route: inhalation (gas) Method: OECD Test Guideline 474

Result: negative

Remarks: Based on data from similar materials

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Carcinogenicity

Not classified based on available information.

Components:

Hydrocarbons, C11-C13, isoalkanes, <2% aromatics:

Species : Rat

Application Route : inhalation (vapour)

Exposure time : 105 weeks Result : negative

Remarks : Based on data from similar materials

d-Tetramethrin:

Species : Rat
Application Route : Ingestion
Exposure time : 104 weeks

Method : OECD Test Guideline 453

Result : positive

Remarks : Based on data from similar materials

Carcinogenicity - Assess-

ment

: Limited evidence of carcinogenicity in animal studies

Reproductive toxicity

Not classified based on available information.

Components:

Hydrocarbons, C12-C16, isoalkanes, cyclics, <2% aromatics:

Effects on foetal develop- : Test Type: Embryo-foetal development

ment Species: Rat

Application Route: Ingestion

Result: negative

Hydrocarbons, C11-C13, isoalkanes, <2% aromatics:

Effects on fertility : Test Type: Reproduction/Developmental toxicity screening

test

Species: Rat

Application Route: inhalation (vapour)

Result: negative

Remarks: Based on data from similar materials

Effects on foetal develop-

ment

Test Type: Embryo-foetal development

Species: Rat

Application Route: inhalation (vapour)

Result: negative

Remarks: Based on data from similar materials

d-Tetramethrin:

Effects on fertility : Test Type: Two-generation reproduction toxicity study

Species: Rat

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Application Route: Ingestion

Result: negative

Effects on foetal develop-

ment

Test Type: Embryo-foetal development

Species: Rabbit Result: negative

STOT - single exposure

Not classified based on available information.

Components:

d-Tetramethrin:

Exposure routes : Inhalation
Target Organs : Nervous system

Assessment : Shown to produce significant health effects in animals at con-

centrations of >1.0 to 5.0 mg/l/4h.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

Hydrocarbons, C11-C13, isoalkanes, <2% aromatics:

Species : Rat

NOAEL : > 10,400 mg/m3
Application Route : inhalation (vapour)

Exposure time : 13 Weeks

Remarks : Based on data from similar materials

Butane:

Species : Rat

NOAEL : >= 9000 ppm
Application Route : inhalation (gas)

Exposure time : 6 Weeks

Method : OECD Test Guideline 422

Aspiration toxicity

Not classified based on available information.

Components:

Hydrocarbons, C12-C16, isoalkanes, cyclics, <2% aromatics:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Hydrocarbons, C11-C13, isoalkanes, <2% aromatics:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

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SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.01 mg/l

Exposure time: 96 h

Remarks: Based on data from similar materials

LC50 : 0.0027 mg/l Exposure time: 96 h

Remarks: Based on data from similar materials

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0.11 mg/l

Exposure time: 48 h

Remarks: Based on data from similar materials

EC50 (Daphnia magna (Water flea)): 0.0043 mg/l

Exposure time: 48 h

Remarks: Based on data from similar materials

Toxicity to algae/aquatic

plants

 $EbC50 : > 0.0001 - < 0.001 \, mg/l$

Exposure time: 96 h

NOEC: 0.01 mg/l Exposure time: 96 h

Components:

Hydrocarbons, C12-C16, isoalkanes, cyclics, <2% aromatics:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): > 88,444 mg/l

Exposure time: 96 h

Test substance: Water Accommodated Fraction

Toxicity to daphnia and other :

aquatic invertebrates

EL50 (Daphnia magna (Water flea)): > 1,000 mg/l

Exposure time: 48 h

Test substance: Water Accommodated Fraction

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EL50 (Pseudokirchneriella subcapitata (green algae)): > 1,000

mg/l

Exposure time: 72 h

Test substance: Water Accommodated Fraction

Method: OECD Test Guideline 201

NOELR (Pseudokirchneriella subcapitata (green algae)):

1,000 mg/l

Exposure time: 72 h

Test substance: Water Accommodated Fraction

Method: OECD Test Guideline 201

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Hydrocarbons, C11-C13, isoalkanes, <2% aromatics:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): > 1,000 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Remarks: Based on data from similar materials

Toxicity to daphnia and other :

aquatic invertebrates

EL50 (Daphnia magna (Water flea)): > 1,000 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Remarks: Based on data from similar materials

Toxicity to algae/aquatic

plants

(Pseudokirchneriella subcapitata (green algae)): > 1,000 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Based on data from similar materials

Toxicity to daphnia and other

aquatic invertebrates (Chron-

ic toxicity)

NOELR: 1 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

Remarks: Based on data from similar materials

No toxicity at the limit of solubility

1R-trans Phenothrin:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.0027 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0.0043 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

EbC50 : > 0.011 mg/l

Exposure time: 72 h

NOEC: 0.0036 mg/l Exposure time: 72 h

M-Factor (Acute aquatic tox-

icity)

100

M-Factor (Chronic aquatic

toxicity)

10

d-Tetramethrin:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.0037 mg/l

Exposure time: 96 h

Remarks: Based on data from similar materials

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0.11 mg/l

Exposure time: 48 h

Remarks: Based on data from similar materials

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Toxicity to algae/aquatic

plants

ErC50 (Pseudokirchneriella subcapitata (green algae)): > 0.25

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Based on data from similar materials

NOEC (Pseudokirchneriella subcapitata (green algae)): 0.25

ma/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Based on data from similar materials

M-Factor (Acute aquatic tox- :

icity)

100

M-Factor (Chronic aquatic

toxicity)

100

12.2 Persistence and degradability

Components:

Hydrocarbons, C12-C16, isoalkanes, cyclics, <2% aromatics:

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 22.4 % Exposure time: 28 d

Method: OECD Test Guideline 301F

Hydrocarbons, C11-C13, isoalkanes, <2% aromatics:

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 31.3 % Exposure time: 28 d

Remarks: Based on data from similar materials

1R-trans Phenothrin:

Biodegradability : Result: Not readily biodegradable.

d-Tetramethrin:

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 23 - 24 % Exposure time: 28 d

Remarks: Based on data from similar materials

Butane:

Biodegradability : Result: Readily biodegradable.

Remarks: Based on data from similar materials

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12.3 Bioaccumulative potential

Components:

Hydrocarbons, C12-C16, isoalkanes, cyclics, <2% aromatics:

Partition coefficient: n-

octanol/water

: Remarks: No data available

1R-trans Phenothrin:

Partition coefficient: n-

octanol/water

log Pow: 6.8

d-Tetramethrin:

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)

Bioconcentration factor (BCF): 827 Method: OECD Test Guideline 305

Partition coefficient: n-

octanol/water

log Pow: > 4

Butane:

Partition coefficient: n-

octanol/water

log Pow: 2.89

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

12.7 Other adverse effects

No data available

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : It is best to use all of the product in accordance with label

directions. If it is necessary to dispose of unused product, please follow container label instructions and applicable local

guidelines.

According to the European Waste Catalogue, Waste Codes

are not product specific, but application specific.

Waste codes should be assigned by the user, preferably in

discussion with the waste disposal authorities.

Do not dispose of waste into sewer.

Contaminated packaging : Follow advice on product label and/or leaflet.

Empty containers retain residue and can be dangerous.

Do not re-use empty containers.

Waste Code : The following Waste Codes are only suggestions:

used product

16 05 04, gases in pressure containers (including halons)

containing hazardous substances

unused product

16 05 04, gases in pressure containers (including halons)

containing hazardous substances

uncleaned packagings

15 01 10, packaging containing residues of or contaminated

by hazardous substances

SECTION 14: Transport information

14.1 UN number

ADN : UN 1950
ADR : UN 1950
RID : UN 1950
IMDG : UN 1950
IATA : UN 1950

14.2 UN proper shipping name

ADN : AEROSOLS
ADR : AEROSOLS
RID : AEROSOLS
IMDG : AEROSOLS

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IATA : Aerosols, flammable

14.3 Transport hazard class(es)

Class Subsidiary risks

2 2.1

 ADN
 : 2
 2.1

 ADR
 : 2
 2.1

 RID
 : 2
 2.1

IMDG : 2.1
IATA : 2.1

14.4 Packing group

ADN

Packing group : Not assigned by regulation

Classification Code : 5F Labels : 2.1

ADR

Packing group : Not assigned by regulation

Classification Code : 5F Labels : 2.1 Tunnel restriction code : (D)

RID

Packing group : Not assigned by regulation

Classification Code : 5F Hazard Identification Number : 23 Labels : 2.1

IMDG

Packing group : Not assigned by regulation

Labels : 2.1 EmS Code : F-D, S-U

IATA (Cargo)

Packing instruction (cargo : 203

aircraft)

Packing instruction (LQ) : Y203

Packing group : Not assigned by regulation

Labels : Flammable Gas

IATA (Passenger)

Packing instruction (passen: 203

ger aircraft)

Packing instruction (LQ) : Y203

Packing group : Not assigned by regulation

Labels : Flammable Gas

14.5 Environmental hazards

ADN

Environmentally hazardous : yes

ADR

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Environmentally hazardous : yes

RID

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks : Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17) : Not applicable

UK REACH Candidate list of substances of very high

concern (SVHC) for Authorisation

Not applicable

Not applicable

The Persistent Organic Pollutants Regulations (retained

Regulation (EU) 2019/1021 as amended for Great Brit-

ain)

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

: Not applicable

UK REACH List of substances subject to authorisation

(Annex XIV)

: Not applicable

GB Export and import of hazardous chemicals - Prior

Informed Consent (PIC) Regulation

Not applicable

Regulation (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012

concerning the making available on the market and use of biocidal products

Product Type : Insecticides, acaricides and products to control other arthro-

pods

Active substance : 0.15 %

d-Tetramethrin

0.15 %

1R-trans Phenothrin

Control of Major Accident Hazards Regulations 2015 (COMAH)

Quantity 1 Quantity 2

P3a FLAMMABLE AEROSOLS 150 t 500 t

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E1 100 t 200 t **ENVIRONMENTAL**

HAZARDS

18 Liquefied flammable gases 50 t 200 t

(including LPG) and natural

Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No 1348)

Merchant Shipping (Dangerous Goods and Marine Pollutants) Regulations 1997 (SI 1997 No

Air Navigation Dangerous Goods Regulations 2002 (SI 2002 No 2786)

Chemical (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No 716) Chemical (Hazard Information and Packaging for Supply) (Northern Ireland) Regulations 2009

Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No 2677)

EH40 Occupational Exposure Limits - Table 1 List of approved workplace exposure limits Control of Pesticide Regulations 1986

Dangerous Substances and Explosive Atmospheres Regulations 2002

Environmental Protection Act 1990, Part II

Environmental Protection (Duty of Care) Regulations 1991

The Waste Management Licensing Regulations 1994 (as amended)

Hazardous Waste Regulations 2005 (Replacing Special Waste Regulations 1996 as amended) Landfill Directive

Regulation on Substances That Deplete the Ozone Layer 1994 (EEC/3093/94)

Water Resources Act 1991

Anti-Pollution Works Regulations 1999

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Other information Items where changes have been made to the previous version

are highlighted in the body of this document by two vertical

lines.

Full text of H-Statements

H220 Extremely flammable gas.

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H280 H302 H304 H351 H371		: Harmful if sw: May be fatal: Suspected of: May cause day	f swallowed and enters airways. causing cancer. amage to organs.	
H400			Very toxic to aquatic life.	
H410		: Very toxic to	Very toxic to aquatic life with long lasting effects.	

Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Acute : Short-term (acute) aquatic hazard
Aquatic Chronic : Long-term (chronic) aquatic hazard

Asp. Tox. : Aspiration hazard
Carc. : Carcinogenicity
Flam. Gas : Flammable gases
Press. Gas : Gases under pressure

STOT SE : Specific target organ toxicity - single exposure GB EH40 : UK. EH40 WEL - Workplace Exposure Limits

GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule: ENCS - Existing and New Chemical Substances (Japan): ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail: SADT - Self-Accelerating Decomposition Temperature: SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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Further information

Sources of key data used to compile the Safety Data

Classification of the mixture:

eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/

Sheet

Internal technical data, data from raw material SDSs, OECD

Classification procedure:

Aerosol 1 H222, H229 Based on product data or assessment
Aquatic Acute 1 H400 Based on product data or assessment
Aquatic Chronic 1 H410 Based on product data or assessment

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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

GB / EN