

SAFETY DATA SHEET

Terminal Fly & Insect Killer Spray

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

1.1. Product identifier

Product name Terminal Fly & Insect Killer Spray
Product number 4153

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

Identified uses Insecticide.

1.3. Details of the supplier of the safety data sheet

Supplier Rumenco T/A Nettex Ltd
 Hoo Industrial Estate
 Vicarage Lane
 Hoo
 Rochester
 Kent
 ME3 9LB
 +44 (0) 1283 524 222

1.4. Emergency telephone number

Emergency telephone +44(0)1634 257150 (Office hours: 8am - 6pm)

National emergency telephone number UK Consumers: NHS 111. Medical Professionals: www.toxbase.org

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Aerosol 1 - H222, H229
Health hazards Skin Irrit. 2 - H315 STOT SE 3 - H336
Environmental hazards Aquatic Chronic 1 - H410

2.2. Label elements

Pictogram



Signal word

Danger

Hazard statements

H222 Extremely flammable aerosol.
 H229 Pressurised container: may burst if heated.
 H315 Causes skin irritation.
 H336 May cause drowsiness or dizziness.
 H410 Very toxic to aquatic life with long lasting effects.
 EUH208 Contains (R)-p-mentha-1,8-diene, permethrin (ISO) m-phenylbenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate. May produce an allergic reaction.

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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.
	P261 Avoid breathing spray.
	P264 Wash contaminated skin thoroughly after handling.
	P271 Use only outdoors or in a well-ventilated area.
	P273 Avoid release to the environment.
	P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
	P302+P352 IF ON SKIN: Wash with plenty of water.
	P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P312 Call a POISON CENTRE/doctor if you feel unwell.
	P321 Specific treatment (see medical advice on this label).
	P332+P313 If skin irritation occurs: Get medical advice/ attention.
	P362+P364 Take off contaminated clothing and wash it before reuse.
	P391 Collect spillage.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.	
P405 Store locked up.	
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.	
P501 Dispose of contents/ container in accordance with national regulations.	

Contains Distillates (petroleum), hydrotreated light

2.3. Other hazards

None

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Distillates (petroleum), hydrotreated light	30-60%	
CAS number: 64742-47-8	EC number: 265-149-8	
Classification		
Skin Irrit. 2 - H315		
STOT SE 3 - H336		
Asp. Tox. 1 - H304		
Aquatic Chronic 2 - H411		
butane	10-30%	
CAS number: 106-97-8	EC number: 203-448-7	
Classification		
Flam. Gas 1 - H220		
2(2-butoxyethoxy)ethyl 6-propylpiperonyl ether	<1%	
CAS number: 51-03-6	EC number: 200-076-7	REACH registration number: 01-2119537431-46-XXXX
M factor (Acute) = 1	M factor (Chronic) = 1	
Classification		
Aquatic Acute 1 - H400		
Aquatic Chronic 1 - H410		

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(R)-p-mentha-1,8-diene	<1%
CAS number: 5989-27-5	EC number: 227-813-5
M factor (Chronic) = 1	
Classification	
Flam. Liq. 3 - H226	
Skin Sens. 1 - H317	
Asp. Tox. 1 - H304	
Aquatic Chronic 1 - H410	
tetramethrin	<1%
CAS number: 7696-12-0	EC number: 231-711-6
M factor (Acute) = 10	M factor (Chronic) = 10
Classification	
Aquatic Acute 1 - H400	
Aquatic Chronic 1 - H410	
permethrin (ISO) m-phenylbenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate	<1%
CAS number: 52645-53-1	EC number: 258-067-9
M factor (Acute) = 100	M factor (Chronic) = 1000
Classification	
Acute Tox. 4 - H302	
Acute Tox. 4 - H332	
Skin Sens. 1 - H317	
Aquatic Acute 1 - H400	
Aquatic Chronic 1 - H410	
1-R-trans phenothrin	<1%
CAS number: 26046-85-5	EC number: 247-431-2
M factor (Acute) = 100	M factor (Chronic) = 10
Classification	
Aquatic Acute 1 - H400	
Aquatic Chronic 1 - H410	

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Chrysanthemum cinerariaefolium extract from open and mature flowers of Tanacetum cinerariifolium obtained with supercritical carbon dioxide	<1%
CAS number: 89997-63-7 EC number: 289-699-3 M factor (Acute) = 100 M factor (Chronic) = 100	
Classification Acute Tox. 4 - H302 Acute Tox. 4 - H332 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Remove person to fresh air and keep comfortable for breathing. Get medical attention.
Ingestion	IF SWALLOWED: Give plenty of water to drink. Get medical attention.
Skin contact	Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if symptoms are severe or persist after washing.
Eye contact	Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention if symptoms are severe or persist after washing.

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

General information	See Section 11 for additional information on health hazards.
Inhalation	Vapours may cause drowsiness and dizziness.
Ingestion	May cause stomach pain or vomiting.
Skin contact	Overexposure may cause the following adverse effects: Skin irritation. Dryness and/or cracking. May cause skin sensitisation or allergic reactions in sensitive individuals.
Eye contact	May irritate eyes.

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

Notes for the doctor	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with foam, carbon dioxide, dry powder or water fog.
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5.2. Special hazards arising from the substance or mixture

Specific hazards	Extremely flammable aerosol. Vapours may form explosive mixtures with air. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back. Containers can burst violently or explode when heated, due to excessive pressure build-up.
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5.3. Advice for firefighters

Protective actions during firefighting	Containers close to fire should be removed or cooled with water. Bursting aerosol containers may be propelled from a fire at high speed.
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Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions For personal protection, see Section 8.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Absorb spillage with sand or other inert absorbent. Collect and place in suitable waste disposal containers and seal securely.

6.4. Reference to other sections

Reference to other sections For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Wear protective clothing as described in Section 8 of this safety data sheet.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep away from heat, sparks and open flame. Do not expose to temperatures exceeding 50°C/122°F.

Storage class Flammable compressed gas storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

butane

Long-term exposure limit (8-hour TWA): WEL 1450 mg/m³

Short-term exposure limit (15-minute): WEL 1810 mg/m³

Chrysanthemum cinerariaefolium extract from open and mature flowers of Tanacetum cinerariifolium obtained with supercritical carbon dioxide

Long-term exposure limit (8-hour TWA): WEL 1 mg/m³

WEL = Workplace Exposure Limit

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Observe any occupational exposure limits for the product or ingredients. This product must not be handled in a confined space without adequate ventilation.

Personal protection

Do not eat, drink or smoke when using this product.

Eye/face protection

Wear chemical splash goggles.

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Hand protection	It is recommended that chemical-resistant, impervious gloves are worn.
Other skin and body protection	Wear appropriate clothing to prevent any possibility of skin contact.
Hygiene measures	Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.
Respiratory protection	Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Aerosol.
Odour	Lemon.
Flash point	< -40°C Information given is applicable to the major ingredient.
Comments	Information given is applicable to the major ingredient.

9.2. Other information

Other information	None.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Not known.
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10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	No potentially hazardous reactions known.
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10.4. Conditions to avoid

Conditions to avoid	Avoid heat, flames and other sources of ignition. Pressurised container: may burst if heated
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10.5. Incompatible materials

Materials to avoid	Acids.
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10.6. Hazardous decomposition products

Hazardous decomposition products	Carbon dioxide (CO ₂). Carbon monoxide (CO). Oxides of nitrogen.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Inhalation	Overexposure to organic solvents may depress the central nervous system, causing dizziness and intoxication and, at very high concentrations, unconsciousness and death.
Ingestion	Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract.
Skin contact	Prolonged contact may cause redness, irritation and dry skin. Repeated exposure may cause skin dryness or cracking. May cause sensitisation by skin contact. In the event of any sensitisation symptoms developing, ensure further exposure is avoided.

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Eye contact	May irritate eyes.
Acute and chronic health hazards	Overexposure to organic solvents may depress the central nervous system, causing dizziness and intoxication and, at very high concentrations, unconsciousness and death. Arrhythmia (deviation from normal heart beat).

SECTION 12: Ecological Information

Ecotoxicity	The product contains substances which are toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.
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12.1. Toxicity

Toxicity	No data available.
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Ecological information on ingredients.

2(2-butoxyethoxy)ethyl 6-propylpiperonyl ether

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 1

Acute toxicity - aquatic plants EC₅₀, 48 hours: 3.89 mg/l, Sclerodermis capricornutum

Chronic aquatic toxicity

M factor (Chronic) 1

(R)-p-mentha-1,8-diene

Chronic aquatic toxicity

M factor (Chronic) 1

tetramethrin

Acute aquatic toxicity

LE(C)₅₀ 0.01 < L(E)C₅₀ ≤ 0.1

M factor (Acute) 10

Acute toxicity - fish LC₅₀, 96 hours: 0.033 mg/l, Brachydanio rerio (Zebra Fish)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 0.47 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: 1.36 mg/l, Scenedesmus subspicatus

Chronic aquatic toxicity

M factor (Chronic) 10

permethrin (ISO) m-phenylbenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

Acute aquatic toxicity

LE(C)₅₀ 0.001 < L(E)C₅₀ ≤ 0.01

M factor (Acute) 100

Acute toxicity - fish LC₅₀, 96 hours: 0.0089 mg/l, Poecilia reticulata (Guppy)

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Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 0.32 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: 0.011 mg/l, Scenedesmus subspicatus
Acute toxicity - microorganisms	EC ₅₀ , 1000 hours: 1000 mg/l, Activated sludge
<u>Chronic aquatic toxicity</u>	
M factor (Chronic)	1000
Chronic toxicity - aquatic invertebrates	NOEC, : 4.7 mg/l, Daphnia magna

1-R-trans phenothrin

<u>Acute aquatic toxicity</u>	
LE(C)₅₀	0.001 < L(E)C ₅₀ ≤ 0.01
M factor (Acute)	100
<u>Chronic aquatic toxicity</u>	
M factor (Chronic)	10

12.2. Persistence and degradability

Persistence and degradability The degradability of the product is not known.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

12.4. Mobility in soil

Mobility The product contains volatile substances which may spread in the atmosphere.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment No data available.

12.6. Other adverse effects

Other adverse effects The product contains volatile organic compounds (VOCs) which have a photochemical ozone creation potential.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Confirm disposal procedures with environmental engineer and local regulations.

Disposal methods Empty containers must not be punctured or incinerated because of the risk of an explosion.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID)	1950
UN No. (IMDG)	1950
UN No. (ICAO)	1950
UN No. (ADN)	1950

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14.2. UN proper shipping name

Proper shipping name (ADR/RID) AEROSOLS

Proper shipping name (IMDG) AEROSOLS (CONTAINS Distillates (petroleum), hydrotreated light, permethrin (ISO) m-phenylbenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate)

Proper shipping name (ICAO) AEROSOLS

Proper shipping name (ADN) AEROSOLS

14.3. Transport hazard class(es)

ADR/RID class 2.1

ADR/RID classification code 5F

ADR/RID label 2.1

IMDG class 2.1

ICAO class/division 2.1

ADN class 2.1

Transport labels



14.4. Packing group

ADR/RID packing group None

IMDG packing group None

ADN packing group None

ICAO packing group None

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

EmS F-D, S-U

ADR transport category 2

Tunnel restriction code (D)

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

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

National regulations HSE Approval Number 10472

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EU legislation

Dangerous Preparations Directive 1999/45/EC.
 Dangerous Substances Directive 67/548/EEC.
 Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
 Council Directive of 20 May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers (75/324/EEC) (as amended).
 Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Guidance

<http://echa.europa.eu>
www.hse.gov.uk
 Supplier Safety Data Sheets
 Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Issued by	HS&E Manager.
Revision date	03/05/2019
Revision	3
Supersedes date	04/09/2017
SDS number	4857
Hazard statements in full	H220 Extremely flammable gas. H222 Extremely flammable aerosol. H226 Flammable liquid and vapour. H229 Pressurised container: may burst 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. H332 Harmful if inhaled. 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. EUH208 Contains (R)-p-mentha-1,8-diene, permethrin (ISO) m-phenylbenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate. May produce an allergic reaction.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.