

# SAFETY DATA SHEET Permost Uni Fly spray

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

# 1.1. Product identifier

Product name Permost Uni Fly spray

Product number PBPTTE0007XXA.

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

**Identified uses** Biocidal products (e.g. disinfectants, pest control).

# 1.3. Details of the supplier of the safety data sheet

Supplier Hockley International Ltd

Hockley House 3 Longstone Road Ashbrook Office Park

Manchester M22 5LB

TEL: +44 (0) 161 209 7400 FAX: +44 (0) 161 209 7401 sds@hockley.co.uk

# 1.4. Emergency telephone number

**Emergency telephone** +44 (0)800 246 1274 (24 hours)

# SECTION 2: Hazards identification

# 2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Asp. Tox. 1 - H304

Environmental hazards Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

# 2.2. Label elements

# Hazard pictograms





Signal word Danger

Hazard statements EUH208 Contains PERMETHRIN (25:75) TECHNICAL. May produce an allergic reaction.

H304 May be fatal if swallowed and enters airways. H410 Very toxic to aquatic life with long lasting effects.

# Permost Uni Fly spray

**Precautionary statements** P273 Avoid release to the environment.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

P391 Collect spillage. P405 Store locked up.

P501 Dispose of contents/ container in accordance with national regulations.

Contains DISTILLATES (PETROLEUM), HYDROTREATED LIGHT

Supplementary precautionary statements

P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P363 Wash contaminated clothing before reuse.

# 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

# SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

# DISTILLATES (PETROLEUM), HYDROTREATED LIGHT CAS number: 64742-47-8 EC number: 265-149-8 REACH registration number: 012119484819-18-XXXX

Classification Classification (67/548/EEC or 1999/45/EC)

Asp. Tox. 1 - H304 Xn;R65. R66.

PIPERONYL BUTOXIDE <1%

CAS number: 51-03-6 EC number: 200-076-7

M factor (Acute) = 1 M factor (Chronic) = 1

Classification Classification (67/548/EEC or 1999/45/EC)

Aquatic Acute 1 - H400 N;R50/53.

Aquatic Chronic 1 - H410

PERMETHRIN (25:75) TECHNICAL 2.5 g/l min

Classification Classification (67/548/EEC or 1999/45/EC)

Acute Tox. 4 - H302 Xn; R20/22. N; R50/53. R43

Acute Tox. 4 - H332 Skin Sens. 1 - H317 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

# Permost Uni Fly spray

TETRAMETHRIN <1%

Classification Classification (67/548/EEC or 1999/45/EC)

Acute Tox. 4 - H302 N; R50/53

Carc. 2 - H351 STOT SE 2 - H371 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

2,6-DI-TERT-BUTYL-P-CRESOL <1%

CAS number: 128-37-0 EC number: 204-881-4 REACH registration number: 01-

2119480433-40-XXXX

M factor (Acute) = 1 M factor (Chronic) = 1

Classification Classification (67/548/EEC or 1999/45/EC)

Aquatic Acute 1 - H400 N;R50/53.

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

General information Remove affected person from source of contamination. CAUTION! First aid personnel must

be aware of own risk during rescue! Place unconscious person on the side in the recovery

position and ensure breathing can take place.

**Inhalation** Move affected person to fresh air at once. Get medical attention. When breathing is difficult,

properly trained personnel may assist affected person by administering oxygen. If breathing

stops, provide artificial respiration.

**Ingestion** Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention

immediately. If breathing stops, provide artificial respiration.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. Get medical

attention promptly if symptoms occur after washing.

Eye contact Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide

apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue

to rinse.

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

**Inhalation** Coughing. Difficulty in breathing.

**Ingestion** Burning sensation. Diarrhoea. Nausea, vomiting.

**Skin contact** Burning sensation. Redness.

**Eye contact** Redness. Pain.

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

symptomatically.

### SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-

extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

### 5.2. Special hazards arising from the substance or mixture

Specific hazards Contain and collect extinguishing water. Avoid releasing into the environment. Do not

discharge into drains or watercourses or onto the ground.

Hazardous combustion

products

Heating may generate the following products: Toxic and corrosive gases or vapours.

Hydrogen chloride (HCI). Oxides of: Carbon. Nitrogen.

5.3. Advice for firefighters

Protective actions during

firefighting

In case of fire and/or explosion do not breathe fumes

Special protective equipment

for firefighters

Wear full protective clothing (EN 469). Wear self-contained breathing apparatus.

### SECTION 6: Accidental release measures

# 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate

ventilation. Warn everybody of potential hazards and evacuate if necessary.

### 6.2. Environmental precautions

**Environmental precautions** Do not discharge into drains or watercourses or onto the ground. Stop leak if possible without

risk

# 6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Absorb spillage with sand or other inert absorbent. Dike far ahead of larger spills for later

disposal. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. This material and its container must be disposed of as hazardous waste.

# 6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see section 13.

# SECTION 7: Handling and storage

# 7.1. Precautions for safe handling

Usage precautions Handle and open container with care. Wear protective clothing as described in Section 8 of

this safety data sheet. Do not release into the environment. Avoid the spillage or runoff entering drains, sewers or watercourses. Do not eat, drink or smoke when using the product. Wash hands after handling. Remove contaminated clothing. Wash contaminated clothing

before reuse.

# 7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Store away

from incompatible materials listed in section 10 of this safety data sheet. Keep out of the

reach of children.

# 7.3. Specific end use(s)

# Permost Uni Fly spray

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

# 2,6-DI-TERT-BUTYL-P-CRESOL

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

# DISTILLATES (PETROLEUM), HYDROTREATED LIGHT (CAS: 64742-47-8)

**DNEL** Consumer - Oral; Long term : 19 mg/kg/day

PIPERONYL BUTOXIDE (CAS: 51-03-6)

**DNEL** Industry - Dermal; Short term systemic effects: 55.556 mg/kg/day

Industry - Inhalation; Short term systemic effects: 7.75 mg/m³ Industry - Dermal; Short term local effects: 444  $\mu$ g/cm² Industry - Inhalation; Short term local effects: 3.875 mg/m³ Industry - Dermal; Long term systemic effects: 27.778 mg/kg/day Industry - Inhalation; Long term systemic effects: 3.875 mg/m³ Industry - Dermal; Long term local effects: 444  $\mu$ g/cm²

Industry - Inhalation; Long term local effects: 0.222 mg/m³

PNEC - Fresh water; 0.003 mg/l

- marine water; 0.0003 mg/l

- Intermittent release; 0.0003 mg/l

- STP; 10 mg/l

Sediment (Freshwater); 0.0194 mg/kgSediment (Marinewater); 0.00194 mg/kg

Soil; 0.136 mg/kgOral; 12.53 mg/kg food

**TETRAMETHRIN (CAS: 7696-12-0)** 

**Ingredient comments** No exposure limits known for ingredient(s).

2,6-DI-TERT-BUTYL-P-CRESOL (CAS: 128-37-0)

**DNEL** Industry - Inhalation; Short term systemic effects: 2 mg/m³

Consumer - Oral; Long term systemic effects: 0.3 mg/kg/day

Industry - Inhalation; Long term systemic effects: 3.5

PNEC - Fresh water; 0.0041 mg/l

- marine water; 0.0041 mg/l

Sediment (Freshwater); 0.731 mg/kgSediment (Marinewater); 0.731 mg/kg

- Soil; 0.35 mg/kg

8.2. Exposure controls

Appropriate engineering

Provide adequate ventilation.

controls

**Eye/face protection** Avoid contact with eyes. Wear approved safety goggles (EN 166).

**Hand protection** Wear protective gloves (EN 374).

# Permost Uni Fly spray

Other skin and body

protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures No specific hygiene procedures recommended but good personal hygiene practices should

always be observed when working with chemical products.

Respiratory protection Respiratory protection may be required if excessive airborne contamination occurs. If

ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted

with the following cartridge: Particulate filter, type P1. (EN 140/143)

Thermal hazards No data available.

**Environmental exposure** 

controls

Do not release into the environment.

# SECTION 9: Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

Appearance Liquid.

Colourless.

Odour Mild.

Odour threshold Not available. Not available.

pH pH (concentrated solution): 5 - 7

Melting point Not available.

**Initial boiling point and range** Not available.

Flash point > 60°C ISO 3679

**Evaporation rate** Not available.

Upper/lower flammability or

explosive limits

Not available.

Vapour pressure Not available.

Vapour density Not available.

**Relative density** 0.795 - 0.815 @ °C

Solubility(ies) Not available.

Partition coefficient Not relevant.

**Auto-ignition temperature** Not available.

**Decomposition Temperature** Not available.

Viscosity Not available.

**Explosive properties** Not available.

Oxidising properties Not available.

9.2. Other information

Other information Not available.

# SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** No data available.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous

reactions

None known. Will not polymerise.

10.4. Conditions to avoid

**Conditions to avoid** Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents. Strong acids. Strong alkalis.

10.6. Hazardous decomposition products

Hazardous decomposition

Does not decompose when used and stored as recommended.

products

## SECTION 11: Toxicological information

# 11.1. Information on toxicological effects

**Toxicological effects** Classification according to Regulation (EC) No 1272/2008.

Acute toxicity - oral

Notes (oral LD<sub>50</sub>) Calculation method. Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) Calculation method. Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC<sub>50</sub>) Calculation method. Based on available data the classification criteria are not met.

Skin corrosion/irritation

Animal data Calculation method. Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation Calculation method. Based on available data the classification criteria are not met.

Respiratory sensitisation

**Respiratory sensitisation** No specific test data are available.

Skin sensitisation

**Skin sensitisation**Based on available data the classification criteria are not met. Contains permethrin. May

produce an allergic skin reaction.

Germ cell mutagenicity

**Genotoxicity - in vitro**Calculation method.

Genotoxicity - in vivo Calculation method.: Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity Calculation method. Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - fertility Calculation method.

Reproductive toxicity -

development

Calculation method. Based on available data the classification criteria are not met.

# Permost Uni Fly spray

Specific target organ toxicity - single exposure

STOT - single exposure Calculation method. Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Calculation method. Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Calculation method. May be fatal if swallowed and enters airways.

Toxicological information on ingredients.

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT

Acute toxicity - oral

Acute toxicity oral (LD50

5,001.0

mg/kg)

**Species** Rat

Notes (oral LD<sub>50</sub>) REACH dossier information. Based on available data the classification criteria are

not met.

ATE oral (mg/kg) 5,001.0

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 2,001.0

mg/kg)

**Species** Rabbit

Notes (dermal LD50) REACH dossier information. Based on available data the classification criteria are

not met.

ATE dermal (mg/kg) 2,001.0

Acute toxicity - inhalation

Acute toxicity inhalation

(LC50 vapours mg/l)

5.28

Rat **Species** 

Notes (inhalation LC50) REACH dossier information. Based on available data the classification criteria are

not met.

Skin corrosion/irritation

Animal data Erythema/eschar score: No erythema (0). Oedema score: No oedema (0). REACH

dossier information. Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye Not irritating. REACH dossier information. Based on available data the classification

damage/irritation criteria are not met.

Skin sensitisation

Skin sensitisation Buehler test: - Guinea pig: REACH dossier information. Not sensitising. Based on

available data the classification criteria are not met.

Germ cell mutagenicity

Gene mutation:: Negative. REACH dossier information. Based on available data the Genotoxicity - in vitro

classification criteria are not met.

# Permost Uni Fly spray

Genotoxicity - in vivo Chromosome aberration: Negative. REACH dossier information. Based on available

data the classification criteria are not met.

Carcinogenicity

Carcinogenicity REACH dossier information. Based on available data the classification criteria are

not met.

Reproductive toxicity

Reproductive toxicity -

fertility

- NOAEL 750 mg/kg/day, Oral, Rat P REACH dossier information. This substance

has no evidence of toxicity to reproduction. Based on available data the

classification criteria are not met.

Reproductive toxicity development

Developmental toxicity: - NOAEL: > 364 ppm, Inhalation, REACH dossier information. Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Data lacking.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 750 mg/kg/day, Oral, Rat REACH dossier information. Based on available

data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Kinematic viscosity ≤ 20.5 mm²/s. REACH dossier information. May be fatal if

swallowed and enters airways.

PIPERONYL BUTOXIDE

Acute toxicity - oral

Notes (oral LD₅₀) REACH dossier information. Based on available data the classification criteria are

not met.

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 2,000.0

mg/kg)

**Species** Rabbit

Notes (dermal LD50) REACH dossier information. Based on available data the classification criteria are

not met.

Acute toxicity - inhalation

Notes (inhalation LC50) REACH dossier information. Based on available data the classification criteria are

not met.

ATE inhalation (dusts/mists mg/l) 5.9

Skin corrosion/irritation

Animal data Erythema/eschar score: No erythema (0). Oedema score: No oedema (0). REACH

dossier information. Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye Not irritating. REACH dossier information. Based on available data the classification

damage/irritation criteria are not met.

Skin sensitisation

# Permost Uni Fly spray

**Skin sensitisation** Buehler test: - Guinea pig: REACH dossier information. Not sensitising. Based on

available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Chromosome aberration: Negative. REACH dossier information. Based on available

data the classification criteria are not met.

Genotoxicity - in vivo Chromosome aberration: Negative. REACH dossier information. Based on available

data the classification criteria are not met.

Carcinogenicity

Carcinogenicity NOAEL 30 mg/kg/day, Oral, Rat REACH dossier information. Based on available

data the classification criteria are not met.

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

Reproductive toxicity

Reproductive toxicity -

fertility

Two-generation study - NOAEL 1000 ppm, Oral, Rat P REACH dossier information.

Based on available data the classification criteria are not met.

Reproductive toxicity -

development

Maternal toxicity: - NOAEL: 200 mg/kg/day, Oral, Rat REACH dossier information. No reproductive or developmental effects occurred at non-parentally toxic doses.

Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

**STOT - single exposure** Data lacking.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 15.5 mg/kg, Oral, REACH dossier information. Based on available data the

classification criteria are not met.

**Aspiration hazard** 

Aspiration hazard Not applicable.

PERMETHRIN (25:75) TECHNICAL

Acute toxicity - oral

Notes (oral LD₅₀) Harmful if swallowed. LD₅₀ 554 mg/kg, Oral, Rat

**ATE oral (mg/kg)** 500.0

Acute toxicity - dermal

Notes (dermal LD₅o) Based on available data the classification criteria are not met. LD₅o > 2000 mg/kg,

Dermal, Rat

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ dust/mist mg/l)

1.5

**Species** Rat

Notes (inhalation LC<sub>50</sub>) Harmonised classification. Harmful if inhaled. LC50, 4 hr > 4.638 mg/l, Inhalation,

Rat

ATE inhalation (dusts/mists mg/l)

1.5

Skin corrosion/irritation

# Permost Uni Fly spray

Animal data Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye

Based on available data the classification criteria are not met.

damage/irritation
Respiratory sensitisation

Respiratory sensitisation No specific test data are available.

Skin sensitisation

**Skin sensitisation** May cause an allergic skin reaction.

Germ cell mutagenicity

**Genotoxicity - in vivo** : Non-genotoxic. Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity No indication of human carcinogenicity. Based on available data the classification

criteria are not met.

Reproductive toxicity

Reproductive toxicity -

fertility

No reproductive or developmental effects occurred at non-parentally toxic doses.

Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

**STOT - single exposure** Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

**Aspiration hazard** 

**Aspiration hazard**Based on available data the classification criteria are not met.

TETRAMETHRIN

Acute toxicity - oral

Notes (oral LD<sub>50</sub>) Harmful if swallowed.

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 2,000.0

mg/kg)

**Species** Rat

Notes (dermal LD<sub>50</sub>) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Acute toxicity inhalation (LC<sub>50</sub> dust/mist mg/l)

5.63

Species Rat

Notes (inhalation LC<sub>50</sub>) Based on available data the classification criteria are not met.

ATE inhalation (dusts/mists mg/l)

5.63

# Permost Uni Fly spray

Skin corrosion/irritation

Animal data Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye

Based on available data the classification criteria are not met.

damage/irritation

Skin sensitisation

Skin sensitisation Buehler test: -: Not sensitising. Based on available data the classification criteria

are not met.

Germ cell mutagenicity

**Genotoxicity - in vitro**Ames test: Negative. Based on available data the classification criteria are not met.

**Genotoxicity - in vivo** Chromosome aberration: Negative. Based on available data the classification

criteria are not met.

Carcinogenicity

**Carcinogenicity** Suspected of causing cancer.

Reproductive toxicity

Reproductive toxicity -

development

Teratogenicity: - NOAEL: > 1000 mg/kg, Oral, No reproductive or developmental

effects occurred at non-parentally toxic doses.

Specific target organ toxicity - single exposure

**STOT - single exposure** May cause damage to organs .

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 200 mg/kg, Oral, Based on available data the classification criteria are not

met.

Aspiration hazard

Aspiration hazard Not applicable.

# SECTION 12: Ecological information

# 12.1. Toxicity

**Toxicity** Classification according to Regulation (EC) No 1272/2008. Very toxic to aquatic life with long

lasting effects.

# Ecological information on ingredients.

### PIPERONYL BUTOXIDE

Acute aquatic toxicity

**LE(C)**<sub>50</sub>  $0.1 < L(E)C50 \le 1$ 

M factor (Acute) 1

Acute toxicity - fish LC50, 96 hours: 3.94 mg/l,

REACH dossier information.

Acute toxicity - aquatic

EC<sub>50</sub>, 48 hours: 0.51 mg/l, Daphnia magna

invertebrates

REACH dossier information.

Acute toxicity - aquatic

ErC50, 72 hours: 3.89 mg/l, Selenastrum capricornutum

plants

REACH dossier information.

# Permost Uni Fly spray

Chronic aquatic toxicity

M factor (Chronic) 1

Chronic toxicity - fish early

life stage

NOEC, 35 days: 0.18 mg/l, Pimephales promelas (Fat-head Minnow)

REACH dossier information.

Chronic toxicity - aquatic invertebrates

NOEC, 21 days: 0.03 mg/l, REACH dossier information.

# PERMETHRIN (25:75) TECHNICAL

**Toxicity** Very toxic to aquatic life with long lasting effects.

Acute aquatic toxicity

**LE(C)**<sub>50</sub>  $0.0001 < L(E)C50 \le 0.001$ 

M factor (Acute) 1000

Acute toxicity - fish LC50, 96 hours: 0.62 µg/l, Salmo gairdneri (Rainbow trout)

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 96 hours: 0.62 μg/l, Daphnia magna

Acute toxicity - aquatic

plants

ErC50, 96 hours: 92 µg/l, Skeletonema costatum

Chronic aquatic toxicity

M factor (Chronic) 1000

# TETRAMETHRIN

**Toxicity** Very toxic to aquatic life with long lasting effects.

Acute aquatic toxicity

**LE(C)**<sub>50</sub>  $0.001 < L(E)C50 \le 0.01$ 

M factor (Acute) 100

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

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: 0.47 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

 $IC_{50}$ , 72 hours: 1.36 mg/l, Scenedesmus subspicatus

Chronic aquatic toxicity

M factor (Chronic) 100

# 12.2. Persistence and degradability

Ecological information on ingredients.

# PIPERONYL BUTOXIDE

Persistence and degradability

The product is not readily biodegradable.

# Permost Uni Fly spray

**Phototransformation** Water - Degradation (%) 50: = 3.6 hours

REACH dossier information. Water -  $DT_{50}$ : = 8.4 hours REACH dossier information.

Stability (hydrolysis) pH7 - Half-life >: 500 days @ 25°C @ °C

REACH dossier information.

PERMETHRIN (25:75) TECHNICAL

Persistence and

degradability

This product is not expected to be readily biodegradable.

**Biodegradation** Water - DT₅₀ : < 28 days

**TETRAMETHRIN** 

Persistence and

degradability

The product is moderately biodegradable.

12.3. Bioaccumulative potential

Partition coefficient Not relevant.

Ecological information on ingredients.

PIPERONYL BUTOXIDE

**Bioaccumulative potential** BCF: = 380, Lepomis macrochirus (Bluegill) REACH dossier information.

**Partition coefficient** log Pow: = 4.8 REACH dossier information.

PERMETHRIN (25:75) TECHNICAL

Bioaccumulative potential BCF: < 750,

Partition coefficient log Kow: 4.67

**TETRAMETHRIN** 

Bioaccumulative potential BCF: 634,

Partition coefficient log Kow: >4.09

12.4. Mobility in soil

Ecological information on ingredients.

PIPERONYL BUTOXIDE

Mobility Semi-mobile.

Adsorption/desorption

coefficient

Water - Koc: = 830 @ °C REACH dossier information.

PERMETHRIN (25:75) TECHNICAL

Mobility Not considered mobile.

Adsorption/desorption

coefficient

Water - Koc: > 5000 @ °C

# Permost Uni Fly spray

### **TETRAMETHRIN**

Mobility Not considered mobile.

Adsorption/desorption

coefficient

Water - Koc: 1423 @ °C

# 12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

This product does not contain any substances classified as PBT or vPvB.

assessment

Ecological information on ingredients.

# PIPERONYL BUTOXIDE

Results of PBT and vPvB

This substance is not classified as PBT or vPvB according to current EU criteria.

assessment

# PERMETHRIN (25:75) TECHNICAL

Results of PBT and vPvB

assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

### TETRAMETHRIN

Results of PBT and vPvB

assessment

On the basis of available data, the product does not contain any PBT or vPvB in

percentage greater than 0.1%

# 12.6. Other adverse effects

Other adverse effects

Not available.

Ecological information on ingredients.

### PIPERONYL BUTOXIDE

Other adverse effects

Not available.

PERMETHRIN (25:75) TECHNICAL

Other adverse effects

Not known.

TETRAMETHRIN

Other adverse effects

Not available.

# SECTION 13: Disposal considerations

# 13.1. Waste treatment methods

General information Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in

accordance with the requirements of the local Waste Disposal Authority.

**Disposal methods** Dispose of waste via a licensed waste disposal contractor. Waste is suitable for incineration.

Do NOT reuse empty containers. Empty containers can be sent for disposal or recycling.

# SECTION 14: Transport information

# General Environmentally Hazardous Substance Mark NOT required for single packagings and

combination packagings containing inner packagings ≤ 5L for liquids, or ≤ 5kg for solids.

(ADR special provision 375, IMDG code 2.10.2.7, IATA special provision A197)

Marine pollutants packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids are not subject to any other provisions of the Code relevant to marine pollutants provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. In the case of marine pollutants also meeting the criteria for inclusion in another hazard class all provisions of this Code relevant to any additional hazards continue to apply.

### 14.1. UN number

UN No. (ADR/RID) 3082
UN No. (IMDG) 3082
UN No. (ICAO) 3082
UN No. (ADN) 3082

# 14.2. UN proper shipping name

Proper shipping name (ADR/RID)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains PERMETHRIN

and TETRAMETHRIN)

Proper shipping name (IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains PERMETHRIN

and TETRAMETHRIN)

Proper shipping name (ICAO) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains PERMETHRIN

and TETRAMETHRIN)

Proper shipping name (ADN) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains PERMETHRIN

and TETRAMETHRIN)

### 14.3. Transport hazard class(es)

ADR/RID class 9

ADR/RID classification code M6

ADR/RID label 9

IMDG class 9

ICAO class/division 9

ADN class 9

# Transport labels



# 14.4. Packing group

ADR/RID packing group III
IMDG packing group III
ICAO packing group III
ADN packing group III

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



### 14.6. Special precautions for user

Not available.

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

**Transport in bulk according to** Not relevant. **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 no. 6399.

PCS approval no. 96763.

This safety data sheet does not form part of the label approved under the Control of Pesticide Regulations 1986. Following the instructions on the pesticide product label for the specificed

uses should ensure that the product is used safely and efficaciously for those uses.

**EU legislation** Dangerous Substances Directive 67/548/EEC.

Dangerous Preparations Directive 1999/45/EC.

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).

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).

Health and environmental

listings

Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer. As amended. None of the ingredients are listed. Regulation (EC) 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals (as

amended). The following ingredients are listed: Permethrin

Authorisations (Annex XIV Regulation 1907/2006)

No specific authorisations are known for this product.

Restrictions (Annex XVII Regulation 1907/2006)

No specific restrictions on use are known for this product.

# 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

# SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet

PBT - Persistent, bioaccumulative and toxic. vPvB - Very persistent and very bioaccumulative

EN - European standard adopted by the European Committee for Standardisation.

Key literature references and sources for data

International Chemical Safety Card. The International Union of Pure and Applied Chemistry (IUPAC) pesticide properties database - http://sitem.herts.ac.uk/aeru/iupac/index.htm United Kingdom National Poison Information Service monograph. International Programme on Chemical Safety (IPCS) Environmental Health Criteria. World Health Organisation (WHO)/Food and Agriculture Organisation of the United Nations (FAO) Joint Meeting on Pesticide Residues monographs and evaluations. World Health Organisation (WHO)/Food and Agriculture Organisation of the United Nations (FAO) Pesticide Data Sheet. Available from www.inchem.org. Disseminated REACH registration dossier -

 $http://apps.echa.europa.eu/registered/registered-sub.aspx\ Supplier\ safety\ data\ sheet\ (SDS).$ 

European Chemicals Agency, http://echa.europa.eu/

Revision comments NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date 16/03/2020

Revision 7.2

Supersedes date 20/10/2017

SDS number 20885

Risk phrases in full R20/22 Harmful by inhalation and if swallowed.

R43 May cause sensitisation by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

R65 Harmful: may cause lung damage if swallowed.

Hazard statements in full H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H317 May cause an allergic skin reaction.

H332 Harmful if inhaled.

H351 Suspected of causing cancer. H371 May cause damage to organs .

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

EUH208 Contains PERMETHRIN (25:75) TECHNICAL. 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.