SAFETY DATA SHEET
TETRAPIÙ

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

1.1. Product identifier

Product name TETRAPIÙ

Product number PTTEPB0005XXA

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) 161 209 7400 9am - 5pm GMT

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Not Classified

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

Classification (67/548/EEC or 1999/45/EC) N; R50/53

2.2. Label elements

Pictogram



Signal word Warning

Hazard statements H410 Very toxic to aquatic life with long lasting effects.
EUH208 Contains PERMETHRIN (25:75) TECHNICAL. May produce an allergic reaction.

Precautionary statements

P273 Avoid release to the environment.
P391 Collect spillage.
P501 Dispose of contents/ container in accordance with national regulations.
P102 Keep out of reach of children.
P270 Do not eat, drink or smoke when using this product.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

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

PIPERONYL BUTOXIDE **0.3% min.**

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

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

Classification
Aquatic Acute 1 - H400
Aquatic Chronic 1 - H410

Classification (67/548/EEC or 1999/45/EC)
N;R50/53.

PERMETHRIN (25:75) TECHNICAL **0.15% min.**

CAS number: 52645-53-1 EC number: 258-067-9

M factor (Acute) = 1000 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

Classification (67/548/EEC or 1999/45/EC)
Xn; R20/22. N; R50/53. R43

TETRAMETHRIN **0.06% min.**

CAS number: 7696-12-0 EC number: 231-711-6

M factor (Acute) = 100 M factor (Chronic) = 100

Classification
Aquatic Acute 1 - H400
Aquatic Chronic 1 - H410

Classification (67/548/EEC or 1999/45/EC)
N; R50/53

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	Diarrhoea. Burning sensation. Nausea, vomiting.
Skin contact	Redness. Burning sensation. The product contains a sensitising substance.
Eye contact	Redness. Pain.

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

Notes for the doctor	Treat symptomatically. Atropine for muscarinic manifestations (e.g. salivation, diarrhea). Treat seizures with benzodiazepines.

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 (HCl). 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. Store at temperatures between 5°C and 30°C.

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

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 µg/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 µg/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/kg
- Sediment (Marinewater); 0.00194 mg/kg
- Soil; 0.136 mg/kg
- Oral; 12.53 mg/kg food

PERMETHRIN (25:75) TECHNICAL (CAS: 52645-53-1)

PNEC

- water; 0.00047 µg/l
- STP; 0.00495 mg/l
- Soil; > 0.0876 mg/kg
- Sediment (Freshwater); 0.001 mg/kg
- ;

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TETRAMETHRIN (CAS: 7696-12-0)

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

8.2. Exposure controls

Appropriate engineering controls	Provide adequate ventilation.
Eye/face protection	Avoid contact with eyes. Wear approved safety goggles (EN 166).
Hand protection	Wear protective gloves (EN 374).
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	It is recommended to use respiratory equipment with combination filter, type A2/P2. If ventilation is inadequate, suitable respiratory protection must be worn. (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.
Colour	White/off-white.
Odour	Odourless.
Odour threshold	Not available.
pH	Not available.
Melting point	Not available.
Initial boiling point and range	Not available.
Flash point	> 100°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	1.0 g/cm3 @ 20°C
Solubility(ies)	Soluble in water.
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 products Does not decompose when used and stored as recommended.

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_{50}) Calculation method. Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD_{50}) Calculation method. Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC_{50}) 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 Calculation method. Contains permethrin. May produce an allergic skin reaction.

Germ cell mutagenicity

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

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Carcinogenicity

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

Reproductive toxicity

Reproductive toxicity - development	Calculation method. Based on available data the classification criteria are not met.

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

PIPERONYL BUTOXIDE

Acute toxicity - oral

Notes (oral LD_{50})	REACH dossier information. Based on available data the classification criteria are not met.

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	2,000.0
Species	Rabbit
Notes (dermal LD_{50})	REACH dossier information. Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC_{50})	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 damage/irritation	Not irritating. REACH dossier information. Based on available data the classification 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

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

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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 LD_{50})	Harmful if swallowed. LD_{50} 554 mg/kg, Oral, Rat
ATE oral (mg/kg)	500.0

Acute toxicity - dermal

Notes (dermal LD_{50})	Based on available data the classification criteria are not met. LD_{50} > 2000 mg/kg, Dermal, Rat

Acute toxicity - inhalation

Acute toxicity inhalation (LC_{50} dust/mist mg/l)	1.5
Species	Rat
Notes (inhalation LC_{50})	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

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

Serious eye damage/irritation

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

Respiratory sensitisation

Respiratory sensitisation	No specific test data are available.

Skin sensitisation

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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

Acute toxicity oral (LD_{50} mg/kg)	2,000.0
Species	Rat
Notes (oral LD_{50})	Based on available data the classification criteria are not met.

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	2,000.0
Species	Rat
Notes (dermal LD_{50})	Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Acute toxicity inhalation (LC_{50} dust/mist mg/l)	5.63
Species	Rat
Notes (inhalation LC_{50})	Based on available data the classification criteria are not met.
ATE inhalation (dusts/mists mg/l)	5.63

Skin corrosion/irritation

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

Serious eye damage/irritation

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

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	Based on available data the classification criteria are not met. There is no evidence that the product can cause 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	Data lacking.

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.

PIPERONYL BUTOXIDE

Acute aquatic toxicity

LE(C)$_{50}$	0.1 < L(E)C50 ≤ 1
M factor (Acute)	1
Acute toxicity - fish	LC50, 96 hours: 3.94 mg/l, REACH dossier information.
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 0.51 mg/l, Daphnia magna REACH dossier information.
Acute toxicity - aquatic plants	ErC50, 72 hours: 3.89 mg/l, Selenastrum capricornutum REACH dossier information.

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.

TETRAPIÙ

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)$_{50}$	0.0001 < L(E)C50 ≤ 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_{50}, 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)$_{50}$	0.001 < L(E)C50 ≤ 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_{50}, 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

PIPERONYL BUTOXIDE

Persistence and degradability	The product is not readily biodegradable.
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 - DT_{50} : < 28 days

TETRAMETHRIN

Persistence and degradability	The product is moderately biodegradable.

12.3. Bioaccumulative potential

Partition coefficient Not relevant.

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: 4.6

12.4. Mobility in soil

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

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

TETRAPIÙ

PIPERONYL BUTOXIDE

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

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

12.6. Other adverse effects

Other adverse effects Not available.

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
ADN packing group	III
ICAO 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 Annex II of MARPOL 73/78 and the IBC Code	Not relevant.

SECTION 15: Regulatory information

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

National regulations

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

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 2037/2000 of the European Parliament and of the Council of 29 June 2000 on substances that deplete the ozone layer (as amended). None of the ingredients are listed. Regulation (EC) 689/2008 of the European Parliament and of the Council of 17 June 2008 concerning the export and import of dangerous chemicals (as amended). The following ingredients are listed: Permethrin

Authorisations (Title VII Regulation 1907/2006)

No specific authorisations are known for this product.

Restrictions (Title VIII 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). Disseminated REACH registration dossier - http://apps.echa.europa.eu/registered/registered-sub.aspx Source: European Chemicals Agency, http://echa.europa.eu/

Revision comments

This is first issue.

Revision date

02/05/2017

Revision

0

SDS number

20712

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.

TETRAPIÙ

Hazard statements in full

H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H332 Harmful if inhaled.
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.