



Tern[®] 750EC

syngenta.

GROUP 5 FUNGICIDE



TERN[®] 750EC is an emulsifiable concentrate containing 750 g/l (81.8 %w/w) fenpropidin.

TERN[®] 750EC provides moderate control of powdery mildew on winter wheat, spring wheat, winter barley, spring barley, oats, rye and tritcale.

FOR USE ONLY AS AN AGRICULTURAL FUNGICIDE

**In case of toxic or transport emergency ring
+44 (0) 538444 anytime (24hr)**

**PLEASE SEE ACCOMPANYING LEAFLET FOR PRODUCT USE
DETAILS**

PROTECT FROM FROST
SHAKE WELL BEFORE USE



1 Litre

L1089936 IREL/06A PPE 4163255

FOR PROFESSIONAL USE ONLY

To avoid risks to human health and the environment comply with the instructions for use.

TERN[®] 750EC is an emulsifiable concentrate containing 750 g/l (81.8% w/w) fenpropidin.

Warning.

Harmful if swallowed or inhaled.

Causes serious eye irritation.

May cause respiratory irritation.

May cause damage to organs through prolonged or repeated exposure.

Very toxic to aquatic life with long lasting effects.



Keep out of reach of children.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wear protective gloves/protective clothing/

eye protection/face protection.

IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

Call a POISON CENTRE or doctor/physician if you feel unwell.

If eye irritation persists: Get medical advice/attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTRE/doctor if you feel unwell.

Collect spillage.

Store in a well-ventilated place. Keep container tightly closed.

Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for triple rinsed empty clean containers which can be disposed of as non-hazardous waste.

To protect aquatic organisms respect an unsprayed buffer zone of 15m to surface water bodies.

Contains fenpropidin. May produce an allergic reaction.

PCS No. 04305

Authorisation Holder	Marketing Company
Syngenta UK Limited CPC4, Capital Park, Fulbourn, Cambridge, CB21 5XE Tel: +44 (0) 1223 883400	Syngenta Ireland Limited Block 6, Cleaboy Business Park, Old Kilmeaden Road, Waterford. Tel: (051) 377203

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L1089936 IREL/06A PPE 4163255

TERN® 750EC provides moderate control of powdery mildew on winter wheat, spring wheat, winter barley, spring barley, oats, rye and triticale.

CONDITIONS FOR USE

FOR USE AS AN AGRICULTURAL FUNGICIDE

CROP	Max. single dose (litres/hectare/crop)	Max. no of applications	Max. total dose (litres/hectare/crop)	Latest time of application
Winter wheat, spring wheat, durum wheat, winter barley, spring barley, oats, rye and triticale.	0.5	-	1.0	Before beginning of flowering: first anthers visible (GS 61).

Additional Safety Information.

Operator protection

Wash splashes from skin and eyes immediately.

Wash hands and exposed skin before meals and after work.

Harmful to Livestock. Keep livestock out of treated areas for at least 7 day.

Wear suitable protective clothing, gloves and eye/face protection.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Do not breathe spray.

Storage and disposal.

Keep in original container, tightly closed in a safe place.

Wash out containers thoroughly, preferably using an integrated pressure rinsing device, or manually rinse three times. Add washings to the sprayer at the time of filling. Complete filling to the required volume and continue to agitate throughout the spraying operation.

Restrictions

Do not apply more than 3 times to any one crop.

TERN 750EC should only be used up to full the ear emergence (GS 59) stage on all crops.

Disease control may be reduced if strains of the pathogen less sensitive to TERN 750EC develop.

DIRECTIONS FOR USE

IMPORTANT: This information is approved as part of the Product Label. All instructions within this section must be carefully read in order to obtain safe and successful use of this product.

CROPS

TERN 750EC can be used on all varieties of winter wheat, spring wheat, winter barley, spring barley, oats, rye and triticale.

DISEASE CONTROL

For moderate control of powdery mildew apply during the early stages of disease development. Best results will be achieved when not more than 5% of the third leaf from the top of the plant is infected. A repeat spray may be necessary during prolonged or severe attacks.

APPLICATION RATE

Apply TERN 750EC at 05. litres per hectare.

MIXING AND SPRAYING

Make sure the sprayer is set to give an even application at the correct volume.

Fill the sprayer tank with half the required quantity of clean water and begin agitation. Add the required quantity of TERN 750EC and continue agitation whilst adding the rest of the water. Agitate the mixture thoroughly before use and continue agitation during spraying.

Thoroughly wash all spray equipment with water immediately after use.

APPLICATION

Volume

Apply TERN 750EC in a recommended of 200 litres of water per hectare.

COMPATIBILITY

The following products may be tank-mixed with TERN 750EC provided the timing is correct for both TERN 750EC and the partner in the mixture.

The products should be added separately to the bulk of the water in the spray tank. Continuous agitation should be maintained and the products used immediately after mixing.

Fungicides

BRAVO 500

Herbicides

Approved salt formulations of:

MCPA

Mecoprop

Growth Regulators

Approved formulations containing chlormequat or chlormequat and choline chloride.

For further information on compatibility, contact Syngenta Ireland Ltd.

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® BRAVO is a Registered Trademark of GB Biosciences Corporation.

SAFETY DATA SHEET - v7

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product Name: TERN 750 EC

Design Code: A7516D

Product Registration Number: PCS 04305

1.2 Relevant Identified Uses of the substance or mixture and uses advised against

Use of the Substance/Mixture: Fungicide

1.3 Details of the supplier of the safety data sheet

Company: Syngenta Ireland Limited

Block 6 Cleaboy Business Park, Old Kilmeaden Road, Waterford, Ireland

Phone: (051) 377203

Fax: (051) 354748

E-mail address of person responsible for the SDS: cropsales.ie@syngenta.com

1.4 Emergency telephone number

Emergency phone No.: +44 (0) 1484 538444

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4 - H302: Harmful if swallowed.

Acute toxicity, Category 4 - H332: Harmful if inhaled.

Eye irritation, Category 2 - H319: Causes serious eye irritation.

Specific target organ toxicity - single exposure, Category 3, Respiratory system - H335: May cause respiratory irritation.

Specific target organ toxicity - repeated exposure, Category 2 - H373: May cause damage to organs through prolonged or repeated exposure.

Short-term (acute) aquatic hazard, Category 1 - H400: Very toxic to aquatic life.

Long-term (chronic) aquatic hazard, Category 1 - H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal Word
Hazard Statements

Warning
H302+H352 Harmful if swallowed or if inhaled.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.

Supplemental Hazard Statements	EUH401	To avoid risks to human health and the environment comply with the instructions for use.
	EUH208	Contains fenpropidin. May produce an allergic reaction.
Precautionary Statements	P102	Keep out of reach of children.
	P260	Do not breathe dust/fume/gas/mist/vapours/spray.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
	P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
	+P312	Get medical advice/ attention if you feel unwell.
	P314	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P305+P351	If eye irritation persists: Get medical advice/ attention.
	+P338	Call a POISON CENTER or doctor/ physician if you feel unwell.
	P337+P313	Collect spillage.
	P312	Store in a well-ventilated place. Keep container tightly closed.
	P391	Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty triple rinsed clean containers which can be disposed of as non-hazardous waste.
	P403+P233	
	P501	

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.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixtures

Components

Chemical Name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
fenpropidin	67306-00-7	Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Dam. 1; H318 Skin Sens. 1B; H317 STOT SE 3; H335 STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 70 - < 90

Chemical Name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Solvent naphtha (petroleum), heavy arom.; Kerosine -unspecified	64742-94-5 265-198-5 649-424-00-3 01-2119463583-34	Asp. Tox.1; H304 Aquatic Chronic2; H411	>= 2.5 - < 10
2-[2-(2-[2-(11-methyl-dodecyloxy)-ethoxy]-ethoxy)-ethoxy]-ethoxy)-ethanol	78330-21-9 500-027-2	Eye Dam.1; H318 Aquatic Acute 1; H400 Aquatic Chronic 3; H412	>= 3 - < 10
calcium dodecylbenzenesulphonate	26264-06-2 247-557-8	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412	>= 1 - < 2.5

For explanation of abbreviations see section 16.

SECTION 4. FIRST-AID MEASURES

4.1 Description of first aid measures

General Advice: Have the product container, label or Material Safety Data Sheet with you when calling the Syngenta emergency number, a poison control centre or physician, or going for treatment.

Inhalation: Move the victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a physician or Poison Control Centre immediately.

Skin Contact: Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.

Eye Contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.

Ingestion: If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting: contains petroleum distillates and/or aromatic solvents.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: Aspiration may cause pulmonary oedema and pneumonitis.

4.3 Indication of any immediate medical attention and special treatment needed

Medical advice: There is no specific antidote available. Treat symptomatically. Do not induce vomiting: contains petroleum distillates and/or aromatic solvents.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Extinguishing media - small fires

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media - large fires

Use alcohol-resistant foam or water spray.

Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health.

5.3 Advice for fire-fighters

Wear full protective clothing and self-contained breathing apparatus.

Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Clean contaminated surface thoroughly. Clean with detergents. Avoid solvents. Retain and dispose of contaminated wash water.

6.4 Reference to other sections

For disposal considerations see section 13., Refer to protective measures listed in sections 7 and 8.

Refer to disposal considerations listed in section 13.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

No special protective measures against fire required. Avoid contact with skin and eyes. When using, do not eat, drink or smoke. For personal protection see section 8.

7.2 Conditions for safe storage, including any incompatibilities

No special storage conditions required. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs.

7.3 Specific end use(s)

Registered Crop Protection products: For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
fenpropidin	67306-00-7	TWA	5 mg/m ³	Syngenta
Solvent naphtha (petroleum), heavy arom.; Kerosine - unspecified	64742-94-5	TWA	100 mg/m ³	Supplier

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
calcium dodecylbenzenesulphonate	Workers	Dermal	Long-term systemic effects	1.7 mg/kg
	Consumers	Dermal	Acute systemic effects	85 mg/kg
	Consumers	Oral	Long-term local effects	89 mg/kg
Solvent naphtha (petroleum), heavy arom.; Kerosine - unspecified	Consumers	Oral	Acute effects	7.5 mg/kg
	Workers	Dermal	Long-term exposure	12.5 mg/kg
	Consumers	Dermal	Long-term exposure	7.5 mg/kg
	Consumers	Inhalation	Long-term exposure	151 mg/m ³
	Workers	Inhalation	Long-term exposure	32 mg/m ³

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
calcium dodecylbenzenesulphonate	Fresh water	0.023 mg/l
	Marine water	0.0023 mg/l
	Intermittent use/release	0.01 mg/l
	Fresh water sediment	0.174 mg/kg
	Marine sediment	0.0174 mg/kg
	Sewage treatment plant	3 mg/kg
	Soil	0.62mg/kg

8.2 Exposure controls

Engineering Measures: Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. The extent of these protection measures depends on the actual risks in use. If airborne mist or vapours are generated, use local exhaust ventilation controls. Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit. Where necessary, seek additional occupational hygiene advice.

Personal protective equipment

Eye protection: Tightly fitting safety goggles

Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded.

Use eye protection according to EN 166.

Hand protection

Material: Nitrile rubber

Break through time: > 480 min

Glove thickness: 0.5 mm

Remarks: Wear protective gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. 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. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Skin and body protection: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Remove and wash contaminated clothing before re-use.

Wear as appropriate: Impervious clothing

Respiratory protection: When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Suitable respiratory equipment: Respirator with combination filter for vapour/particulate (EN 141)

The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Filter type: Combined particulates and organic vapour type (A-P)

Protective measures: The use of technical measures should always have priority over the use of personal protective equipment. When selecting personal protective equipment, seek appropriate professional advice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:

Liquid

Colour:

Yellow to brownish

Odour:

Characteristic

Odour Threshold:

No data available

pH:

8 - 12

Concentration: 1 % w/v

Melting point/range:

No data available

Boiling point/boiling range:

> 170 °C

Flash point:

71.5 °C (1,013 hPa)

Evaporation rate:

No data available

Flammability (solid, gas):

No data available

Lower explosion limit:

No data available

Upper explosion limit:

No data available

Vapour pressure:

No data available

Relative vapour density:	No data available
Density:	0.917 g/cm ³ (20 °C)
Solubility in other solvents:	No data available
Partition Coefficient n-octanol/water:	No data available
Autoignition temperature:	260 °C
Thermal decomposition:	No data available
Viscosity, dynamic:	30.5 mP.a.s (20 °C) 11.5 mP.a.s (40 °C)
Explosive properties:	Not explosive
Oxidizing properties:	The substance or mixture is not classified as oxidizing.
9.2 Other information	
Surface tension:	31.0 mN/m, 25 °C

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity:

None reasonably foreseeable.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions: No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid: No decomposition if used as directed.

10.5 Incompatible materials

Materials to avoid: None known.

10.6 Hazardous decomposition products

Hazardous decomposition products: No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Information on likely routes of exposure: Ingestion, Inhalation, Skin contact, Eye contact

Acute toxicity

Product:

Acute oral toxicity:	LD50 (Rat, male and female): 200 - 2,000 mg/kg Assessment: The component/mixture is moderately toxic after single ingestion. Remarks: The toxicological data has been taken from products of similar composition.
Acute inhalation toxicity:	LC50 (Rat, male and female): 1.5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Remarks: Derived from components.
Acute dermal toxicity:	LD50 (Rat, male and female): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity Remarks: The toxicological data has been taken from products of similar composition.

Components:

fenpropidin:

Acute oral toxicity:	LD50 (Rat, male and female): 2,009 mg/kg LD50 (Rat, male): 2,173 mg/kg LD50 (Rat, female): 1,452 mg/kg
Acute inhalation toxicity:	LC50 (Rat, male and female): 1.22 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance/mixture is not toxic on inhalation as defined by dangerous goods regulations.
Acute dermal toxicity:	LD50 (Rat, male and female): > 4,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Product:

Species: Rabbit
Result: No skin irritation
Remarks: The toxicological data has been taken from products of similar composition.

Components:

fenpropidin:

Species: Rabbit
Result: Mild skin irritation

calcium dodecylbenzenesulphonate:

Result: Irritating to skin.

Serious eye damage/eye irritation

Product:

Species: Rabbit
Result: Eye irritation
Remarks: The toxicological data has been taken from products of similar composition.

Components:

fenpropidin:

Species: Rabbit
Result: Risk of serious damage to eyes.

2-[2-[2-[2-(11-methyl-dodecyloxy)-ethoxy]-ethoxy]-ethoxy]-ethanol:

Species: Rabbit
Result: Irreversible effects on the eye
calcium dodecylbenzenesulphonate:
Result: Irreversible effects on the eye

Respiratory or skin sensitisation

Product:

Test Type: Maximisation Test
Species: Guinea pig

Result: Did not cause sensitisation on laboratory animals.

Remarks: The toxicological data has been taken from products of similar composition.

Components:

fenpropidin:

Species: Guinea pig

Result: The product is a skin sensitiser, sub-category 1B.

Germ cell mutagenicity

Components:

fenpropidin:

Germ cell mutagenicity- Assessment: Animal testing did not show any mutagenic effects.

Carcinogenicity

Components:

fenpropidin:

Carcinogenicity - Assessment: No evidence of carcinogenicity in animal studies.

Reproductive toxicity

Components:

fenpropidin:

Reproductive toxicity - Assessment: No toxicity to reproduction

STOT - single exposure

Components:

fenpropidin:

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

STOT - repeated exposure

Components:

fenpropidin:

Target Organs: Central nervous system

Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

Aspiration toxicity

Components:

Solvent naphtha (petroleum), heavy arom.; Kerosine -unspecified:

May be fatal if swallowed and enters airways.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Product:

Toxicity to fish:

LC50 (*Oncorhynchus mykiss* (rainbow trout)): 3.91 mg/l

Exposure time: 96 h

Remarks: Based on test results obtained with similar product.

Toxicity to daphnia and other aquatic invertebrates:

EC50 (*Daphnia magna* (Water flea)): 0.90 mg/l

Exposure time: 48 h

Remarks: Based on test results obtained with similar product.

ErC50 (*Desmodesmus subspicatus* (green algae)): 0.0004 mg/l

Exposure time: 72 h

Remarks: Based on test results obtained with similar product.

EbC50 (*Desmodesmus subspicatus* (green algae)): 0.0002 mg/l

Exposure time: 72 h

Remarks: Based on test results obtained with similar product.

Components:

fenpropidin:

Toxicity to fish:

LC50 (*Oncorhynchus mykiss* (rainbow trout)): 2.57 mg/l

Exposure time: 96 h

LC50 (*Lepomis macrochirus* (Bluegill sunfish)): 1.93 mg/l

Exposure time: 96 h

LC50 (*Cyprinus carpio* (Carp)): 3.55 mg/l

Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates:

EC50 (*Daphnia magna* (Water flea)): 0.54 mg/l

Exposure time: 48 h

Toxicity to algae:

ErC50 (*Desmodesmus subspicatus* (green algae)): > 0.001 mg/l

Exposure time: 72 h

NOEC (*Desmodesmus subspicatus* (green algae)): 0.000032 mg/l

End point: Growth rate

Exposure time: 72 h

M-Factor (Acute aquatic toxicity):

100

Toxicity to fish (Chronic toxicity):

NOEC: 0.32 mg/l

Exposure time: 21 d

Species: *Oncorhynchus mykiss* (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):

NOEC: 1.0 mg/l

Exposure time: 21 d

Species: *Daphnia magna* (Water flea)

M-Factor (Chronic aquatic toxicity):

1,000

Solvent naphtha (petroleum), heavy arom.; Kerosine -unspecified:

Ecotoxicology Assessment

Chronic aquatic toxicity:

Toxic to aquatic life with long lasting effects.

2-[2-[2-[2-(11-methyl-dodecyloxy)-ethoxy]-ethoxy]-ethoxy]-ethanol:

Toxicity to fish:

LC50 (*Danio rerio* (zebra fish)): 1 - 10 mg/l

Exposure time: 96 h

Ecotoxicology Assessment

Chronic aquatic toxicity:

Harmful to aquatic life with long lasting effects.

calcium dodecylbenzenesulphonate:

Ecotoxicology Assessment

Chronic aquatic toxicity: Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

Components:

fenpropidin:

Biodegradability: Result: Inherently biodegradable.

Stability in water: Remarks: Product is not persistent.

2-[2-(2-[2-(2-(11-methyl-dodecyloxy)-ethoxy)-ethoxy]-ethoxy)-ethoxy]-ethanol:

Biodegradability: Result: Readily biodegradable.

12.3 Bioaccumulative potential

Components:

fenpropidin:

Bioaccumulation: Remarks: Does not bioaccumulate.

Partition coefficient: n-octanol/water: log Pow: 2.9 (25 °C)

12.4 Mobility in soil

Components:

fenpropidin:

Distribution among environmental compartments: Remarks: immobile

Stability in soil: Remarks: Product is not persistent.

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.

Components:

fenpropidin:

Assessment: This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

2-[2-(2-[2-(2-(11-methyl-dodecyloxy)-ethoxy)-ethoxy]-ethoxy)-ethoxy]-ethanol:

Assessment: This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

12.6 Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product: Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging: Empty remaining contents. Triple rinse containers. Empty containers should be taken for local recycling or waste disposal. Do not re-use empty containers.

Waste Code: 150110, packaging containing residues of or contaminated by dangerous substances

SECTION 14. TRANSPORT INFORMATION

Land transport (ADR/RID)

14.1 UN number

ADN: UN 3082

ADR: UN 3082

RID: UN 3082

IMDG: UN 3082

IATA: UN 3082

14.2 UN proper shipping name

ADN: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(SOLVENT NAPHTHA AND FENPROPIDIN)

ADR: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(SOLVENT NAPHTHA AND FENPROPIDIN)

RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(SOLVENT NAPHTHA AND FENPROPIDIN)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(SOLVENT NAPHTHA AND FENPROPIDIN)

IATA: Environmentally hazardous substance, liquid, n.o.s. (SOLVENT NAPHTHA AND FENPROPIDIN)

14.3 Transport hazard class(es)

ADN: 9

ADR: 9

RID: 9

IMDG: 9

IATA: 9

14.4 Packing group

ADN

Packing group: III

Classification Code: M6

Hazard Identification Number: 90

Labels: 9

ADR

Packing group: III

Classification Code: M6

Hazard Identification Number: 90

Labels: 9

Tunnel restriction code: (-)

RID

Packing group: III

Classification Code: M6

Hazard Identification Number: 90

Labels: 9

IMDG

Packing group: III

Labels: 9

EmS Code: F-A, S-F

IATA (Cargo)
Packing instruction (cargo aircraft): 964
Packing instruction (LQ): Y964
Packing group: III
Labels: Miscellaneous
IATA (Passenger)
Packing instruction (passenger aircraft): 964
Packing instruction (LQ): Y964
Packing group: III
Labels: Miscellaneous

14.5 Environmental hazards

ADN
Environmentally hazardous: yes
ADR
Environmentally hazardous: yes
RID
Environmentally hazardous: yes
IMDG
Marine pollutant: yes
IATA (Passenger)
Environmentally hazardous: yes
IATA (Cargo)
Environmentally hazardous: 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 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: Not applicable
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59): Not applicable
REACH - List of substances subject to authorisation (Annex XIV): Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer: Not applicable
Regulation (EC) No 850/2004 on persistent organic pollutants: Not applicable
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII): Conditions of restriction for the following entries should be considered:
Number on list 3
Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

		Quantity 1	Quantity 2
E1	ENVIRONMENTAL HAZARDS	100 t	200 t
34	Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in points (a) to (d)	2,500 t	25,000 t

Other regulations:

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

Use plant protection products safely. Always read the label and product information before use.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance when it is used in the specified applications.

16. OTHER INFORMATION

Full text of H-Statements

H302: Harmful if swallowed.
H304: May be fatal if swallowed and enters airways.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H332: Harmful if inhaled.
H335: May cause respiratory irritation.
H373: May cause damage to organs through prolonged or repeated exposure.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.: Acute toxicity
Aquatic Acute: Acute aquatic toxicity
Aquatic Chronic: Chronic aquatic toxicity
Asp. Tox.: Aspiration hazard
Eye Dam.: Serious eye damage
Skin Irrit.: Skin irritation
Skin Sens.: Skin sensitisation
STOT RE: Specific target organ toxicity - repeated exposure
STOT SE: Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; 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; TCSI - Taiwan Chemical Substance 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

Further information

Classification of the mixture:

Acute Tox. 4	H302
Acute Tox. 4	H332
Eye Irrit. 2	H319
STOT SE 3	H335
STOT RE 2	H373
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

Classification procedure:

Based on product data or assessment
Based on product data or assessment
Based on product data or assessment
Calculation method
Calculation method
Based on product data or assessment
Calculation method

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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.