

TWIGA CHEMICALS

Duduthrin 1.75 EC

IDENTIFICATION OF SUBSTANCE/PREPARATION AND OF THE 1. COMPANY/UNDERTAKING

Product name :

Duduthrin 1.75 EC

Company

Twiga Chemical Industries Ltd.

Ol Kalou Road, off Nanyuki Road, Industrial Area, P.O. Box 30172, 00100 GPO Nairobi - Kenya.

Phone number

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Product Description

A pyrethroid insecticide. An emulsifiable concentrate.

EEC-No.: 415-130-7 Lambda-cyhalothrin

EEC-No.: 265-199-0 Solvent naphtha (petroleum), light aromatic

CAS No.	Hazard	Risk Pharases	Concentration
	Symbols		
91465-08-6	T+,N	R26-R25-R21-R50	17.5 g/l
	Xn	R22-R36/38-R53	< 100 g/l
eum),	light aromatic		
64742-95-6	Xn,N	R10-R37-R51/53-R6	> 500 g/l
		5	
	91465-08-6	Symbols T+,N Xn light aromatic	Symbols 91465-08-6 T+,N R26-R25-R21-R50 Xn R22-R36/38-R53 light aromatic

3. HAZARDS IDENTIFICATION

Harmful if swallowed.

This material causes irritation following skin contact and can cause serious damage to the eyes.

May cause tingling/numbness in exposed areas (paraesthesia).

Flammable.

Skin contact:

Very toxic to aquatic organisms.

4. FIRST AID MEASURES

If you feel unwell, seek medical advice (show the label where possible).

Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for Eve contact:

at least 15 minutes. Obtain immediate medical attention.

Take off immediately all contaminated clothing. Wash skin immediately with water,

followed by soap and water. Such action is essential to minimise contact with skin.

Contaminated clothing should be laundered before re-issue.

Remove patient from exposure, keep warm and at rest. Obtain medical attention as a Inhalation:

precaution.

If swallowed seek medical advice immediately and show the container, label or this Data Ingestion:

Sheet, if possible.

Do not induce vomiting.

Medical advice

Gastric lavage may be effective when performed within 4 hours of ingestion.

Aspiration of this material into the lungs should be avoided.

Symptomatic treatment and supportive therapy as indicated.



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5. FIRE FIGHTING MEASURES

Flammable.

Keep fire exposed containers cool by spraying with water.

Extinguishing media:

For small fires, use foam, carbon dioxide or dry powder extinguishant. For large

fires, use foam or water-fog;

avoid use of water jet. Contain run-off water with, for example, temporary earth

barriers

Protective Equipment:

A self contained breathing apparatus and suitable protective clothing should be

worn in fire conditions.

6. ACCIDENTAL RELEASE MEASURES

Personal

precautions

: Ensure suitable personal protection during removal of spillages. This means wearing a

face mask that gives protection against organic vapours, eye protection, chemically

resistant gloves, boots and coveralls.

Clean up

methods:

Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a

container for disposal. Wash the spillage area with water. Washings must be prevented

from entering surface water drains.

Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

7. HANDLING AND STORAGE

HANDLING

Read the label before use.

Safe handling

Advice

: Avoid contact with skin and eyes. Do not breathe spray.

Avoid inhalation of high concentrations of vapours. When using do not eat, drink or

smoke. Wash face and hands before eating, drinking or smoking.

STORAGE

Safe storage advice: Keep only in the original container. Keep container tightly closed. Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protection

When using this product refer to the label for details.

Occupational exposure limits

Hazardous ingredient:

Lambda-cyhalothrin Twiga Chemicals Standard

8 hr TWA 0.04 mg/m3

Sk: Can be absorbed through skin

Hazardous ingredient:

Mixed hydrocarbon solvents OES/HSE

8 hr TWA 200 mg/m3

(Manufacturer/Supplier's Calculation)



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Not applicable to field use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form

: liquid

Colour

: almost colourless to pale yellow

Odour

: aromatic

Boiling point

· Not available

Melting point Flash point

: Not available.

Autoignition

· 38 °C

: Not available.

Temperature Explosive properties

: Not applicable : Not available.

Vapour pressure

Density: 0.9 g/ml Solubility

miscible in/with water

pH-value (quant.)

: Not available.

Partition coeff.

: Not available.

Oxidizing properties

: Not applicable

10. STABILITY AND REACTIVITY

Hazardous decomposition

Products

: Combustion or thermal decomposition will evolve toxic and irritant vapours.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY (LETHAL DOSES)

This health hazard assessment is based on information available on similar products.

Oral Median Lethal Dose rat

: (calculated) 1000 .. 2000 mg/kg

Harmful if swallowed.

Dermal Median Lethal Dose rat

: (calculated) > 4000 mg/kg

Inhalation

Unlikely to cause harmful effects under normal conditions of handling and use.

ACUTE TOXICITY (IRRITATION, SENSITISATION ETC.)

Eye Irritation

: May cause severe eye irritation.

Skin Irritation

: May cause severe irritation.

Skin Sensitisation

: May cause skin sensitisation in some cases.

Other Effects

: In humans may cause tingling or numbness in exposed areas (paraesthesia).

The effect may result from splash, aerosol or transfer to the face from

contaminated gloves and hands. This effect is transient, lasting up to 24 hours.

12. ECOLOGICAL INFORMATION

ECOTOXICITY



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This environmental hazard assessment is based on information available on similar products.

Toxicity to fish

: LC50 96 hours rainbow trout (flow through)

: approx 20 μg/1

Very toxic to aquatic organisms.

(Not necessarily identical to the EC classification risk phrases).

13. DISPOSAL CONSIDERATIONS

Do not contaminate ponds, waterways or ditches with chemical or used containers. Surplus material must be disposed of as detailed in the 'Guidelines for the avoidance, limitation and disposal of pesticide waste on the farm' GCPF, 1987. Empty containers should be washed and discarded. Empty containers should not be used for other purposes.

Disposal should be in accordance with local, state or national legislation.

14. TRANSPORT INFORMATION

Road transport ADR/RID

UN No.

: UN1993

Class-primary

: 3 Flammable Liquid

Number/letter:

:31/(c)

Proper shipping name

: 1993 FLAMMABLE LIQUID, N.O.S., SUBSTITUTED

BENZENOID HYDROCARBONS

Maritime transport IMDG

UN No.

: UN1993

Class-primary

: 3.3 Flammable Liquid

UN Pack. Group

Proper shipping name

: FLAMMABLE LIQUID, N.O.S., (contains substituted benzenoid

hydrocarbons and lambda-cyhalothrin 1.75%)

Marine pollutant

: Yes

Air transport ICAO/IATA

UN/ID No .:

: UN1993

Class-primary

: 3 Flammable Liquid

UN Pack. Group

Proper shipping name

: FLAMMABLE LIQUID, N.O.S., (contains substituted benzenoid

hydrocarbons and lambda-cyhalothrin 1.75%)

15. REGULATORY INFORMATION

Classification

: HARMFUL FLAMMABLE

Hazard symbols

· Xn

Risk Phrases

: (R22) Harmful if swallowed.

(R41) Risk of serious damage to eyes.

(R38) Irritating to skin.

Safety Phrases

: (S2) Keep out of the reach of children.

(S13) Keep away from food, drink and animal feeding stuffs.

(S20/21) When using, do not eat, drink or smoke.

(S25) Avoid contact with eyes.

(S26) In case of contact with eyes, rinse immediately with plenty of water and

seek medical advice.



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(S46) If swallowed, seek medical advice immediately and show this container or

label.

Special label

: (SO53) Do not re-use container, keep tightly closed in a safe place.

This substance is covered by the EEC Dangerous Substances Directive (CPL Regulations). It has therefore been labelled in accordance with these regulations.

Users should ensure that they comply with any relevant local, state or national legislation.

16. OTHER INFORMATION

Use:

: To control insect pests.

Duduthrin 1.75 EC is the property of Twiga Chemicals

Read the label before you buy

: use pesticides safely.

This data sheet was prepared in accordance with Directive 91/155/EC (93/112/EC). The information on this sheet is not a specification, it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product nor where instructions or recommendations are not followed.