

Demand CS Data Sheet

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

Product name :DEMAND CS Company :Sorex Ltd Phone Number :0151 420 71511 Fax: 0151 495 1163

2. COMPOSITION/INFORMATION ON INGREDIENTS

Product Description

A pyrethroid insecticide.

A microencapsulated formulation.

CAS-No. : 91465-08-6
 EC-No. : 415-130-7 Lambda-cyhalothrin
 EC-No. : 265-199-0 Solvent naphtha (petroleum), light aromatic
 EC-No. : 200-338-0 Propane-1, 2-diol (Propylene glycol)

Hazardous CAS-No Hazard Risk Phrases

Concentration

ingredients

ingredients	CAS-No	Hazard	symbols	Risk Phrases
Lambda-cyhalothrin	91465-08-6	T+,N	R21-R25-R26-R50/5	100 g/l 3
Solvent naphtha (petroleum), light aromatic (supplier's classification)	64742-95-6	Xn, N	R10-R39-R51/53-R6	< 100 g/l
Propane-1, 2- diol (Propylene glycol)	57-55-6			< 100 g/l

3. HAZARDS IDENTIFICATION

A mild irritant to eyes. Slightly irritant to skin.

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

Very toxic to aquatic organisms.

4. FIRTS AID MEASURES

Eye contact: Immediately irrigate with eyewash solution or clean water, holding the eyelid apart, for at least 15 minutes. Obtain immediate medical attention.

Skin contac : 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.

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

Indigestion : If swallowed seek medical advice immediately and show the container, label or this Data Sheet, if possible. Do not induce vomiting.

Medical advice

If the amount of chemical is judged to be less than a lethal dose, observe the patient and treat symptomatically. If gastric lavage is considered necessary, prevent aspiration of gastric material. Consider administration of activated charcoal and a laxative.

5. FIRE FIGHTING MEASURES

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, 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 : Ensure suitable personal protection during removal of spillages. This means wearing 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. Washing must be prevented from entering surface water drains.

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7. HANDLING AND STORAGE **Handling** Read the label before use.

Safe handling advice: Avoid contact with skin and eyes. Do not breath spray. When using do not eat, drink or smoke. Wash face and hands before eating, drinking or smoking.

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

Storage Life : Stable at 40oC, 6 months. Stable at 25oC, 24 months. Stable at 0oC, 7 days.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protection

When using this product refer to the label for details.

When suitable engineering controls are not fitted or are inadequate, wear suitable protective equipment.

When selecting personal protective equipment, users should consult their supplier to confirm that the equipment is suitable.

Respiratory protect. : Wear suitable respiratory protective equipment if exposure to high levels of material are likely. Respiratory protective equipment should conform to the appropriate EN standard.

Eye protection : Wear suitable eye/face protection conforming to EN 166

Hand protection : Wear suitable gloves conforming to EN 374

Body protection : Wear suitable protective clothing.

Occupational exposure limits

Hazardous ingredient : Propane-1, 2-diol (Propylene glycol) OES/HSE

Total (vapour & particulates)

8 hr TWA 150 ppm

470 mg/m³

Particulates

8 hr TWA 10 mg/m³

Hazardous ingredient : Mixed hydrocarbon solvents OES/HSE

8 hr TWA 200 mg/m³

(Manufacturer/Supplier's Calculation) Not applicable to field use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: liquid	Colour	: cream
Odour	: Not available.	Boiling point	: Not available.
Melting point	: Not available.	Flash point	: does not flash.
Autoignition	: Not available	Explosive properties	: Not applicable
Vapour pressure	: Not available.	Density	: 1.033 g/ml
Solubility	: miscible in/with water	pH-value (quant)	: 5.8
	: at 25 oC		
Partition coeff.	: Not available.	Viscosity	: 1490 cSt
	: at 20 oC	Oxidizing properties	: Not available

10. STABILITY AND REACTIVITY

Hazardous decomposition

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

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY (LETHAL DOSES)

LD50 Oral rat : > 5000 mg/kg

Low oral toxicity.

Dermal Median Lethal Dose rat : > 4000 mg/kg

Inhalation

Unlikely to cause harmful effects when handled and used as directed on the label.

ACUTE TOXICITY (IRRITATION, SENSITISATION ETC.)

Eye Irritation : Mild irritant to rabbit eyes.

Skin Irritation : Slight irritant to rabbit skin.

Skin Sensitisation -	Buehler
:	It is a weak skin sensitiser in animal tests.
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.
Long Term Exposure	:
:	No long term risks to man are associated with this material when handled and used as directed on the label.

12. ECOLOGICAL INFORMATION ENVIRONMENTAL FATE AND DISTRIBUTION

The substance is essentially insoluble in water.
The substance has low mobility in soil.

BIOACCUMULATIVE POTENTIAL

The substance has high potential for bioaccumulation. It is rapidly metabolised and excreted.

PERSISTENCE AND DEGRADATION

There is evidence of rapid hydrolysis in soil.
There is evidence of photodegradation in soil.
There is evidence of photodegradation in water.
There is evidence of rapid biodegradation in soil and water.

ECOTOXICITY

This ecological assessment is calculated from data available on the components of the formulation.

Toxicity to fish	:	LC50 Rainbow trout
:	:	approx 4 µg/l

Very toxic to aquatic organisms.

ADDITIONAL INFORMATION ABOUT ECOLOGY

Very toxic to fish.

13. DISPOSAL CONSIDERATIONS

Do not contaminate ponds, waterways or ditches with chemicals 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.	:	UN3082
Class-primary	:	9 Miscellaneous Dangerous Goods
Number/letter:	:	11 / (c)
Proper shipping name	:	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., LAMBDA-CYHALOTHRIN MIXTURE

Maritime transport IMDG

UN No.	:	UN3082
Class-primary	:	9 Miscellaneous Dangerous Goods
UN Pack. Group	:	III
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (contains lambda-cyhalothrin 10% and substituted benzenoid hydrocarbons)

Marine pollutant	:	Yes
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Air transport ICAO/IATA

Not applicable

15. REGULATORY INFORMATION

Classification	:	Not Classified as Dangerous for Supply/Use.
Special label	:	(S053) Do not re-use container, keep tightly closed in a safe place. (S054) See instructions for use supplied separately. (D01) Wash substance from skin or eyes immediately.

The safety phrases have been assigned by ZENECA Agrochemicals.

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

16. OTHER INFORMATION

Use: : For use only as a public health insecticide.

' ±: is the property of an AstraZeneca Group company.

Read the label before you buy: use pesticides safely.

This data sheet was prepared in accordance with Directive 91/155/EEC (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.

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