

Safety data sheet

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BASF Safety data sheet according to Regulation (EC) No. 1907/2006

Date / Revised: 04.09.2009

Product: **221L DEMAND**

Version: 1.0

(30503762/SDS_GEN_GB/EN)

Date of print 15.01.2010

1. Substance/preparation and company identification

221L DEMAND

Use: insecticide

Company:

BASF SE

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GERMANY

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Emergency information:

International emergency number:

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2. Hazard identification

Possible Hazards

Extremely flammable.

Harmful by inhalation.

Irritating to eyes and skin.

Vapours may cause drowsiness and dizziness.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. Composition/information on ingredients

Chemical nature

Biocidal product, insecticide

Hazardous ingredients

according to Directive 1999/45/EC

lambda-cyhalothrin

Content (W/W): 0.05 %
CAS Number: 91465-08-6
EC-Number: 415-130-7
INDEX-Number: 607-252-00-6
Hazard symbol(s): T+, N
R-phrase(s): 21, 25, 26, 50/53

propan-2-ol

Content (W/W): ≥ 80 %
CAS Number: 67-63-0
EC-Number: 200-661-7
INDEX-Number: 603-117-00-0
Hazard symbol(s): F, Xi
R-phrase(s): 11, 36, 67

Distillates (petroleum), hydrotreated light

Content (W/W): ≥ 5 % - ≤ 10 %
CAS Number: 64742-47-8
EC-Number: 265-149-8
INDEX-Number: 649-422-00-2
Hazard symbol(s): Xn
R-phrase(s): 65

The wording of the hazard symbols and R-phrases is specified in chapter 16 if dangerous ingredients are mentioned.

4. First-Aid Measures

General advice:

Avoid contact with the skin, eyes and clothing. Immediately remove contaminated clothing. First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). If difficulties occur: Obtain medical attention. Show container, label and/or safety data sheet to physician.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

After contact with skin, wash immediately with plenty of water and soap. If irritation develops, seek medical attention.

On contact with eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Rinse mouth immediately and then drink plenty of water, seek medical attention.

Note to physician:

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Suitable extinguishing media:

water spray, dry extinguishing media, foam, carbon dioxide

Specific hazards:

carbon monoxide, carbon dioxide, nitrogen oxides, acid halides

The substances/groups of substances mentioned can be released in case of fire.

Special protective equipment:

Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

Keep containers cool by spraying with water if exposed to fire. In case of fire and/or explosion do not breathe fumes. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental Release Measures

Environmental precautions:

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up or taking up:

For small amounts: Pick up with suitable absorbent material.

For large amounts: Pick up with suitable absorbent material.

Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Incinerate or take to a special waste disposal site in accordance with local authority regulations.

7. Handling and Storage

Handling

No special measures necessary if stored and handled correctly.

Protection against fire and explosion:

Avoid all sources of ignition: heat, sparks, open flame.

Storage

Segregate from foods and animal feeds.

Further information on storage conditions: Keep away from heat. Protect from direct sunlight. Keep at temperature not exceeding 50°C. Keep out of the reach of children. Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame.

Storage stability:

Storage duration: 24 Months

8. Exposure controls and personal protection

Components with workplace control parameters

67-63-0: propan-2-ol

TWA value 999 mg/m³ ; 400 ppm (EH40 (UK))

STEL value 1,250.000000 mg/m³ ; 500 ppm (EH40 (UK))

124-38-9: carbon dioxide

TWA value 9,000 mg/m³ ; 5,000 ppm (OEL (EU))

TWA value 9,150.000000 mg/m³ ; 5,000.000000 ppm (EH40 (UK))

STEL value 27,400.000000 mg/m³ ; 15,000.000000 ppm (EH40 (UK))

Personal protective equipment

Respiratory protection:

Respiratory protection in case of vapour/aerosol release. Combination filter for gases/vapours of organic, inorganic, acid inorganic, alkaline compounds and toxic particles (e. g. EN 14387 Type ABEK-P3)

Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures:

Avoid contact with the skin, eyes and clothing. Wearing of closed work clothing is recommended. Do not breathe spray. Keep separated from food stuffs and feed stocks. No eating, drinking, smoking or tobacco use at the place of work. Hands and/or face should be washed before breaks and at the end of the shift. Store work clothing separately.

9. Physical and Chemical Properties

Form: aerosol
Colour: clear
Odour: slight odour

pH value: 10.5
(water, 1 %(m), 25 °C)

Information on: Propan-2-ol

Boiling point: 82.4 °C
(1,013 hPa)

Flash point: 12.5 °C
Flammability: Extremely flammable. (calculated)

Information on: Propan-2-ol

Ignition temperature: 425 °C

Fire promoting properties: not determined

Vapour pressure: approx. 6894 hPa
(20 °C)

Density: 0.79 g/cm³
(20 °C)

Solubility in water: miscible

Viscosity, dynamic: 2.2 mPa.s

10. Stability and Reactivity

Conditions to avoid:

Temperature: > 50 °C

Avoid all sources of ignition: heat, sparks, open flame.

Substances to avoid:

No data available.

Hazardous reactions:

No hazardous reactions if stored and handled as prescribed/indicated.

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

11. Toxicological Information

Acute toxicity

Experimental/calculated data:

LD50 rat (oral): > 5,000 mg/kg

LC50 rat (by inhalation): > 2.4 mg/l 4 h

LD50 rabbit (dermal): > 5,000 mg/kg

Irritation

Experimental/calculated data:

Skin corrosion/irritation rabbit: Irritant.

Serious eyes damages/irritation rabbit: Irritant.

Respiratory/Skin sensitization

Experimental/calculated data:

guinea pig: Non-sensitizing.

12. Ecological Information

Ecotoxicity

Assessment of aquatic toxicity:

Acutely toxic for aquatic organisms.

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: lambda-cyhalothrin

Toxicity to fish:

LC50 (96 h) 0.00036 mg/l, Oncorhynchus mykiss

Information on: lambda-cyhalothrin

Aquatic invertebrates:

EC50 (48 h) 0.00036 mg/l, Daphnia sp.

Persistence and degradability

Information on: lambda-cyhalothrin

13. Disposal Considerations

Must be dumped or incinerated in accordance with local regulations.

The UK Environmental Protection (Duty of Care) Regulations (EP) and amendments should be noted (United Kingdom).

This product and any uncleaned containers must be disposed of as hazardous waste in accordance with the 2005 Hazardous Waste Regulations and amendments (GB)

Contaminated packaging:

Emptied gas pressure vessels must not be opened.

This material and its container must be disposed of in a safe way.

14. Transport Information

Land transport

ADR

Hazard class: 2
Classification code: F
ID number: UN 1950
Hazard label: 2.1
Proper shipping name: AEROSOLS (contains ISOPROPANOL)

RID

Hazard class: 2
Classification code: F
ID number: UN 1950
Hazard label: 2.1
Proper shipping name: AEROSOLS (contains ISOPROPANOL)

Inland waterway transport

ADNR

Hazard class: 2
Classification code: F
ID number: UN 1950
Hazard label: 2.1
Proper shipping name: AEROSOLS (contains ISOPROPANOL)

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Sea transport**IMDG**

Hazard class: 2.1
ID number: UN 1950
Hazard label: 2.1
Marine pollutant: YES
Proper shipping name: AEROSOLS (contains ISOPROPANOL)

Air transport**IATA/ICAO**

Hazard class: 2.1
ID number: UN 1950
Hazard label: 2.1
Proper shipping name: AEROSOLS (contains ISOPROPANOL)

Further information

This product is subject to The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2007 and their amendments (United Kingdom).

15. Regulatory Information**Regulations of the European union (Labelling) / National legislation/Regulations****Directive 1999/45/EC ('Preparation Directive'):****Hazard symbol(s)**

F+ Extremely flammable.
Xn Harmful.
N Dangerous for the environment.

R-phrases(s)

R12 Extremely flammable.
R20 Harmful by inhalation.
R36/38 Irritating to eyes and skin.
R67 Vapours may cause drowsiness and dizziness.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases(s)

S2	Keep out of the reach of children.
S16	Keep away from sources of ignition - No smoking.
S23.1	Do not breathe spray.
S29	Do not empty into drains.
S35	This material and its container must be disposed of in a safe way.
S38	In case of insufficient ventilation, wear suitable respiratory equipment.
S46	If swallowed, seek medical advice immediately and show this container or label.
S51	Use only in well-ventilated areas.

Hazard determining component(s) for labelling: LAMBDA-CYHALOTHRIN, PROPAN-2-OL, KEROSENE (PETROLEUM)

Container is under pressure. Protect from sun and temperatures above 50 °C. Do not open with force or incinerate even after use. Do not spray into flames or onto glowing objects.

Other regulations

To avoid risks to man and the environment, comply with the instructions for use.

The data should be considered when making any assessment under the Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, for example, 'COSHH Essentials' (United Kingdom).

16. Other Information

Full text of hazard symbols and R-phrases if mentioned as hazardous components in chapter 3:

T+	Very toxic.
N	Dangerous for the environment.
F	Highly flammable.
Xi	Irritant.
Xn	Harmful.
21	Harmful in contact with skin.
25	Toxic if swallowed.
26	Very toxic by inhalation.
50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
11	Highly flammable.
36	Irritating to eyes.
67	Vapours may cause drowsiness and dizziness.
65	Harmful: may cause lung damage if swallowed.

Vertical lines in the left hand margin indicate an amendment from the previous version.

If you have any queries relating to this MSDS, its contents or any other product safety related questions, please write to the following e-mail address: product-safety-north@basf.com

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The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.