

Safety data sheet

Page: 1/10

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

Date / Revised: 29.09.2009

Product: **DEMAND CS**

Version: 1.0

(30484423/SDS_GEN_GB/EN)

Date of print 30.09.2009

1. Substance/preparation and company identification

DEMAND CS

Use: insecticide

Company:

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2. Hazard identification

Possible Hazards

Harmful by inhalation.

May cause sensitization by skin contact.

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

3. Composition/information on ingredients

Chemical nature

insecticide, biocide

Hazardous ingredients

according to Directive 1999/45/EC

lambda-cyhalothrin

Content (W/W): $\geq 7\%$ - $< 10\%$
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

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified

Content (W/W): $\geq 5\%$ - $< 15\%$
CAS Number: 64742-95-6
EC-Number: 265-199-0
INDEX-Number: 649-356-00-4
Hazard symbol(s): Xn, N
R-phrase(s): 10, 65, 66, 67, 51/53

1,2-benzisothiazol-3(2H)-one

Content (W/W): $\geq 0\%$ - $< 2.5\%$
CAS Number: 2634-33-5
EC-Number: 220-120-9
INDEX-Number: 613-088-00-6
Hazard symbol(s): Xn, N
R-phrase(s): 22, 38, 41, 43, 50

propane-1,2-diol

Content (W/W): $\geq 5\%$ - $< 15\%$
CAS Number: 57-55-6
EC-Number: 200-338-0

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. Take off immediately all contaminated clothing. If difficulties occur: Obtain medical attention. Show container, label and/or safety data sheet to physician. 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 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 with water. Do not induce vomiting. Seek medical attention if necessary.

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, alcohol-resistant foam, carbon dioxide

Unsuitable extinguishing media for safety reasons:

water jet

Specific hazards:

carbon monoxide, hydrogen chloride, carbon dioxide, nitrogen oxides, organochloric compounds
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:

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. Keep containers cool by spraying with water if exposed to fire.

6. Accidental Release Measures

Personal precautions:

Use personal protective clothing. Avoid contact with the skin, eyes and clothing. Remove contaminated clothes, undergarments and shoes immediately.

Environmental precautions:

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

Methods for cleaning up or taking up:

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). Dispose of absorbed material in accordance with regulations.

For large amounts: Dike spillage. Pump off product.

Cleaning operations should be carried out only while wearing breathing apparatus. 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. Ensure thorough ventilation of stores and work areas.

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 only in the original container in a cool, well-ventilated place. Keep locked-up and out of reach of children.

Storage stability:

Storage duration: 24 Months

8. Exposure controls and personal protection

Components with workplace control parameters

57-55-6: propane-1,2-diol

TWA value 10 mg/m³ (EH40 (UK)), Particulate

TWA value 474 mg/m³ ; 150 ppm (EH40 (UK)), Total vapour and particulates

Personal protective equipment

Respiratory protection:

Combination filter for gases/vapours of organic compounds and solid and liquid particles (f.e. EN 14387 Type A-P2)

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. Take off immediately all contaminated clothing. Store work clothing separately. Keep away from food, drink and animal feeding stuffs. 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.

9. Physical and Chemical Properties

Form:	liquid
Colour:	white to light brown
Odour:	not available
pH value:	4 - 8 (1 %(m))
Melting point:	approx. 0 °C Information applies to the solvent.
Boiling point:	approx. 100 °C Information applies to the solvent.
Flash point:	> 97 °C
Ignition temperature:	Based on the water content the product does not ignite.
Explosion hazard:	not explosive
Fire promoting properties:	not fire-propagating
Vapour pressure:	23 mbar (20 °C) Information applies to the solvent.
Density:	1.047 g/cm ³ (20 °C)
Solubility in water:	miscible
Partitioning coefficient n-octanol/water (log Pow):	not applicable
Viscosity, dynamic:	79.5 - 448 mPa.s (20 °C)

10. Stability and Reactivity

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

Hazardous reactions:
No hazardous reactions if stored and handled as prescribed/indicated.
The product is chemically stable.

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): 4.62 mg/l 4 h

LD50 rat (dermal): > 4,000 mg/kg

Irritation

Assessment of irritating effects:
May cause slight irritation to the eyes. May cause slight irritation to the skin.

Respiratory/Skin sensitization

Assessment of sensitization:
Sensitization after skin contact possible. The product has not been tested. The statement has been derived from the properties of the individual components.

Germ cell mutagenicity

Assessment of mutagenicity:
The substance was not mutagenic in studies with mammals.

Carcinogenicity

Assessment of carcinogenicity:
The results of various animal studies gave no indication of a carcinogenic effect.

Other relevant toxicity information

Misuse can be harmful to health.

12. Ecological Information

Ecotoxicity

Toxicity to fish:

LC50 0.004 mg/l, *Oncorhynchus mykiss*

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

Aquatic invertebrates:

EC50 (48 h) 0.004 mg/l, *Daphnia magna*

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

Aquatic plants:

EC50 (96 h) > 10 mg/l, *Pseudokirchneriella subcapitata*

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

Persistence and degradability

Information on: Solvent naphtha (petroleum), light arom.

Assessment biodegradation and elimination (H₂O):

Biodegradable. According to OECD criteria the product is not readily biodegradable but inherently biodegradable.

Bioaccumulation potential

Information on: Solvent naphtha (petroleum), light arom.

Bioaccumulation potential:

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is possible.

Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control.

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)

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Contaminated packaging:
Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

14. Transport Information

Land transport

ADR

Hazard class: 9
Packing group: III
ID number: UN 3082
Hazard label: 9, EHSM
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(contains LAMBDA-CYHALOTHRIN, SOLVENT NAPHTHA)

RID

Hazard class: 9
Packing group: III
ID number: UN 3082
Hazard label: 9, EHSM
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(contains LAMBDA-CYHALOTHRIN, SOLVENT NAPHTHA)

Inland waterway transport

ADNR

Hazard class: 9
Packing group: III
ID number: UN 3082
Hazard label: 9, EHSM
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(contains LAMBDA-CYHALOTHRIN, SOLVENT NAPHTHA)

Sea transport

IMDG

Hazard class: 9
Packing group: III
ID number: UN 3082
Hazard label: 9, EHSM
Marine pollutant: YES
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
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Air transport

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IATA/ICAO

Hazard class:	9
Packing group:	III
ID number:	UN 3082
Hazard label:	9, EHS
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains LAMBDA-CYHALOTHRIN, SOLVENT NAPHTHA)

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)	
N	Dangerous for the environment.
Xn	Harmful.
R-phrases(s)	
R20	Harmful by inhalation.
R43	May cause sensitization by skin contact.
R51/53	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.
S13	Keep away from food, drink and animal feeding stuffs.
S20/21	When using do not eat, drink or smoke.
S24	Avoid contact with skin.
S35	This material and its container must be disposed of in a safe way.
S37	Wear suitable gloves.
S46	If swallowed, seek medical advice immediately and show this container or label.
S57	Use appropriate container to avoid environmental contamination.

Hazard determining component(s) for labelling: 1,2-BENZISOTHIAZOL-3(2H)-ONE, LAMBDA-CYHALOTHRIN, SOLVENT NAPHTHA

Other regulations

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).

This product may be subject to the Control of Major Accident Hazards Regulations (COMAH), and amendments if specific threshold tonnages are exceeded (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.
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.
10	Flammable.
65	Harmful: may cause lung damage if swallowed.
66	Repeated exposure may cause skin dryness or cracking.
67	Vapours may cause drowsiness and dizziness.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
22	Harmful if swallowed.
38	Irritating to skin.
41	Risk of serious damage to eyes.
43	May cause sensitization by skin contact.
50	Very toxic to aquatic organisms.

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

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

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.