

Safety data sheet

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

Date / Revised: 19.03.2008

Version: 2.1

Product: **ALVERDE**

320 00 I

(30265083/SDS_CPA_EU/EN)

Date of print 20.03.2008

1. Substance/preparation and company identification

ALVERDE

Use: crop protection product, insecticide

Company:

BASF SE

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GERMANY

Unternehmensbereich Pflanzenschutz

Telephone: +49 621 60-27777

Telefax number: +49 621 60-27125

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Emergency information:

Telephone: +49 180 2273-112

Telefax number: +49 621 60-92664

2. Hazard identification

Irritating to eyes.

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

3. Composition/information on ingredients

Chemical nature

crop protection product, insecticide, suspension concentrate (SC)

Hazardous ingredients

Metaflumizone

Content (W/W): 22.2 %
CAS Number: 139968-49-3
Hazard symbol(s): N
R-phrases: 50/53

sodium dioctyl sulfosuccinate

Content (W/W): $\geq 1.8 \%$ - $\leq 2.5 \%$
Hazard symbol(s): Xi
R-phrases: 36/38

ethoxylated isodecyl alcohol

Content (W/W): $\geq 3.1 \%$ - $\leq 3.9 \%$
CAS Number: 78330-20-8
Hazard symbol(s): Xi
R-phrases: 38, 41

Polyaryl phenol ethoxylate

Content (W/W): $\geq 2.7 \%$ - $\leq 3.3 \%$
CAS Number: 99734-09-5
R-phrases: 52/53

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.

If inhaled:

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

On skin contact:

Wash thoroughly with soap and water. 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. Do not induce vomiting unless told to by a poison control center or doctor. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

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Note to physician:

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

5. Fire-fighting measures

Suitable extinguishing media:

foam, dry extinguishing media, carbon dioxide, water spray

Specific hazards:

carbon monoxide, hydrogen fluoride, hydrogen cyanide, nitrogen oxides

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

Personal precautions:

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

Environmental precautions:

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater. Contain contaminated water/firefighting water.

Methods for cleaning up or taking up:

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

For large amounts: Dike spillage. Pump off product.

Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental 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:

No special precautions necessary. The substance/product is non-combustible. The product is not capable of a dust explosion.

Storage

Segregate from foods and animal feeds.

Further information on storage conditions: Keep away from heat. Protect from direct sunlight.

Storage stability:

Storage duration: 24 Months

Protect from temperatures above: 40 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

8. Exposure controls and personal protection

Personal protective equipment

Respiratory protection:

Respiratory protection in case of vapour/aerosol release. Wear respiratory protection if ventilation is inadequate. Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

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:

The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. 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, suspension
Colour:	white
Odour:	faintly aromatic
pH value:	6.5 - 7.5 (25 °C) (measured with the undiluted substance)
crystallization temperature:	-2.3 °C
onset of boiling:	approx. 95 °C Information applies to the solvent.
Flash point:	Non-flammable.
Ignition temperature:	485 °C
Density:	1.08 - 1.09 g/cm ³ (20 °C)
Solubility in water:	dispersible
Partitioning coefficient n-octanol/water (log Pow):	Not applicable
<i>Information on: Metaflumizone</i>	
<i>Partitioning coefficient n-octanol/water (log Pow):</i> 4.7 - 5.2	

Viscosity, dynamic:	26 mPa.s (20 °C, 100 1/s)

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.

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

11. Toxicological information

Acute toxicity

LD50 rat (oral): > 2,000 mg/kg

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LC50 rat (by inhalation): > 5.2 mg/l 4 h

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

Irritation

Primary skin irritation rabbit: non-irritant

Primary irritations of the mucous membrane rabbit: Irritant.

Sensitization

guinea pig: Skin sensitizing effects were not observed in animal studies.

Other relevant toxicity information

Misuse can be harmful to health.

12. Ecological information

Ecotoxicity

Toxicity to fish:

LC50 (96 h) 3.30 mg/l, *Oncorhynchus mykiss*

Aquatic invertebrates:

EC50 (48 h) 11.53 mg/l, *Daphnia magna*

Aquatic plants:

EC50 (72 h) 43.92 mg/l (growth rate), *Pseudokirchneriella subcapitata*

Bioaccumulation potential

Bioaccumulation potential:

Bioconcentration factor: 800

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.

Contaminated packaging:

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

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14. Transport information

Land transport

ADR

Hazard class: 9
Packing group: III
ID number: UN 3082
Hazard label: 9
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (contains METAFLUMIZONE 22%)

RID

Hazard class: 9
Packing group: III
ID number: UN 3082
Hazard label: 9
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (contains METAFLUMIZONE 22%)

Inland waterway transport

ADNR

Hazard class: 9
Packing group: III
ID number: UN 3082
Hazard label: 9
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (contains METAFLUMIZONE 22%)

Sea transport

IMDG

Hazard class: 9
Packing group: III
ID number: UN 3082
Hazard label: 9
Marine pollutant: YES
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (contains METAFLUMIZONE 22%)

Air transport

IATA/ICAO

Hazard class: 9
Packing group: III

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ID number: UN 3082
Hazard label: 9
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (contains METAFLUMIZONE 22%)

15. Regulatory information

Regulations of the European union (Labelling) / National legislation/Regulations

Self classification:

Hazard symbol(s)

N Dangerous for the environment.
Xn Harmful.

R-phrases(s)

R36 Irritating to eyes.
R48/20 Harmful: Danger of serious damage to health by prolonged exposure through inhalation.
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.
S35 This material and its container must be disposed of in a safe way.
S57 Use appropriate container to avoid environmental contamination.

Hazard determining component(s) for labelling: METAFLUMIZONE

Other regulations

For the user of this plant-protective product applies: 'To avoid risks to man and the environment, comply with the instructions for use.' (Directive 1999/45/EC, Article 10, No. 1.2)

16. Other information

Recommended use: crop protection product, insecticide

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

N Dangerous for the environment.
Xi Irritant.
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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36/38	Irritating to eyes and skin.
38	Irritating to skin.
41	Risk of serious damage to eyes.
52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

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.