

Safety data sheet

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BASF Safety data sheet according to 91/155/EEC

Date / Revised: 01.03.2007

Product: **VOLLEY 88 OL**

Version: 2.0

421 F

(30126482/SDS_CPA_EU/EN)

Date of print 05.02.2008

1. Substance/preparation and company identification

VOLLEY 88 OL

Use: crop protection product, fungicide

Company:

BASF SE

67056 Ludwigshafen

GERMANY

Unternehmensbereich Pflanzenschutz

Telephone: +49 621 60-27777

Telefax number: +49 621 60-27125

E-mail address: Produktinformation-Pflanzenschutz@basf.com

Emergency information:

Telephone: +49 180 2273-112

Telefax number: +49 621 60-92664

2. Composition/information on ingredients

Chemical nature

crop protection product, fungicide, solution miscible in oil

Hazardous ingredients

fenpropimorph

Content (W/W): \geq 93 %

CAS Number: 67564-91-4

EC-Number: 266-719-9

INDEX-Number: 613-124-00-0

Hazard symbol(s): Xn, N

R-phrases: 22, 38, 63, 51/53

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

3. Hazard identification

Possible risk of harm to the unborn child.

Harmful if swallowed.

Irritating to skin.

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

4. First-aid measures

General advice:

Avoid contact with the skin, eyes and clothing. Take off immediately all 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 thoroughly with 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.

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

Unsuitable extinguishing media for safety reasons:

water

Specific hazards:

carbon monoxide, 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.

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.

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

Breathing must be protected when large quantities are decanted without local exhaust ventilation.

Avoid contact with the skin, eyes and clothing.

Protection against fire and explosion:

Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

Storage

Segregate from foods and animal feeds.

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

Storage stability:

Storage duration: 60 Months

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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:

Breathing protection if gases/vapours are formed. Wear respiratory protection if ventilation is inadequate. Gas filter for gases/vapours of organic compounds (boiling point >65 °C, e. g. EN 14387 Type A)

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 DIN-EN 465).

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with the skin, eyes and clothing. Wearing of closed work clothing is recommended. Remove contaminated clothing. Store work clothing separately. No eating, drinking, smoking or tobacco use at the place of work. Keep away from food, drink and animal feeding stuffs. Hands and/or face should be washed before breaks and at the end of the shift.

9. Physical and chemical properties

Form: liquid
Colour: yellowish
Odour: faintly aromatic

Boiling point: 370 °C

Flash point: 142 °C

Lower explosion limit: 0.4 %(V)
(4 mbar)

Upper explosion limit: 2.6 %(V)
(26 mbar)

Ignition temperature: 265 °C

Explosion hazard: not explosive

Fire promoting properties: not fire-propagating

(Directive 92/69/EEC, A.15)

(Directive 92/69/EEC, A.14)

(Directive 92/69/EEC, A.17)

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Vapour pressure: 0.000023 mbar
(20 °C)

Density: 0.92 - 0.94 g/cm³
(20 °C)

Solubility in water:
0.0043 g/l
(20 °C)

Partitioning coefficient n-octanol/water (log Pow): 4.7
(22 °C; pH value: 7)

10. Stability and reactivity

Thermal decomposition: > 400 °C
No decomposition if stored and handled as prescribed/indicated.

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

LD50 rat (oral): 1,670 mg/kg

LC50 rat (by inhalation): 2.9 mg/l 4 h

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

Irritation

Primary skin irritation rabbit: Irritant.

Primary irritations of the mucous membrane rabbit: non-irritant

Sensitization

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

Developmental toxicity

Assessment of teratogenicity:

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Possible risk of harm to the unborn child.

Other relevant toxicity information

Misuse can be harmful to health.

Experiences in humans

Irritations of the skin and mucous membranes described in isolated cases.
Can irritate the respiratory tract.

12. Ecological information

Ecotoxicity

Toxicity to fish:

LC50 (96 h) 9.5 mg/l, *Oncorhynchus mykiss*

LC50 (96 h) 3.2 mg/l, *Cyprinus carpio*

Aquatic invertebrates:

EC50 (48 h) 2.39 mg/l, *Daphnia magna*

Aquatic plants:

EC50 (96 h) 2.2 mg/l

Microorganisms/Effect on activated sludge:

EC10 (17 h) > 1,874 mg/l, *Pseudomonas putida*

Persistence and degradability

Elimination information:

Not readily biodegradable (by OECD criteria).

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 (FENPROPIMORPH 94%)

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 (FENPROPIMORPH 94%)

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 (FENPROPIMORPH 94%)

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 (FENPROPIMORPH 94%)

Air transport

IATA/ICAO

Hazard class: 9
Packing group: III
ID number: UN 3082

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Hazard label: 9
 Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
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15. Regulatory information

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

EC-Number: 266-719-9

Directive 2004/73/EC adapting to technical progress for the 29th time Directive 67/548/EEC on the approximation of the laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances.:

Hazard symbol(s)

Xn Harmful.
 N Dangerous for the environment.

R-phrases(s)

R63 Possible risk of harm to the unborn child.
 R22 Harmful if swallowed.
 R38 Irritating to skin.
 R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases(s)

S36/37 Wear suitable protective clothing and gloves.
 S46 If swallowed, seek medical advice immediately and show this container or label.
 S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

Hazard determining component(s) for labelling: FENPROPIMORPH

Other regulations

16. Other information

Full text of hazard symbols and R-phrases if mentioned as hazardous components in chapter 2:

Xn Harmful.
 N Dangerous for the environment.
 22 Harmful if swallowed.
 38 Irritating to skin.
 63 Possible risk of harm to the unborn child.
 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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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.