BASF Aktiengesellschaft

Safety data sheet

BASF

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BASF Safety data sheet according to 91/155/EEC

Date / Revised: 04.07.2003

Product: SAPROL 190 EC

Version: 1.0

(30135164/SDS CPA EU/EN)

Date of print 05.07.2003

1. Substance/preparation and company identification

SAPROL 190 EC

Company:

BASF Aktiengesellschaft

Unternehmensbereich Pflanzenschutz

67056 Ludwigshafen, Deutschland

Telephone: +49-621-60-79321/ 79146

Telefax number: +49-621-60-79519

E-mail address: Produktinformation-Pflanzenschutz@basf-ag.de

Emergency information:

Fire brigade BASF Ludwigshafen Telephone: +49-621-60-43333

Telefax number: +49-621-60-92664

2. Composition/information on ingredients

Chemical nature

crop protection agents, fungicide, emulsion concentrate

Hazardous ingredients

triforine

Content (W/W): 17,8 % CAS Number: 26644-46-2 EG-Number: 247-872-0

N-Methylpyrrolidone

Content (W/W): 11,1 % CAS Number: 872-50-4 EG-Number: 212-828-1 INDEX-Number: 606-021-00-7

Hazard symbol(s): Xi R-phrase(s): 36/38

N,N-dimethylformamide

Content (W/W): 27,5 %
CAS Number: 68-12-2
EG-Number: 200-679-5
INDEX-Number: 616-001-00-X

Hazard symbol(s): T R-phrase(s): 61, 20/21, 36

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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

Irritating to eyes.

4. First-aid measures

General advice:

Avoid contact with the skin, eyes and clothing. Remove 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:

After contact with skin, wash immediately with plenty of water and soap.

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, carbon dioxide, foam

Specific hazards:

carbon monoxide, nitrogen oxides, aldehydes

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.

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6. Accidental release measures

Personal precautions:

Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

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. 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.

Protection against fire and explosion:

Vapours may form ignitable mixture with air. 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 against moisture. Protect from direct sunlight.

Storage stability:

Storage duration: 24 Months

Protect from temperatures below: -15 °C 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 not required.

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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), polyvinylchloride (0.7 mm) and other

Eye protection:

Tightly fitting safety goggles (splash goggles) (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:

Avoid contact with the skin, eyes and clothing. Wearing of closed work clothing is recommended. Take off immediately all contaminated clothes. Store work clothing separately. Keep away from food, drink and animal feeding stuffs. No eating, drinking, smoking or snuff-taking 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:

cloudy

Odour:

solvent-like

crystallization temperature:

-50 °C

Flash point:

70 °C

Density:

1,07 g/cm3

(20 °C)

Solubility in water:

emulsifiable

Viscosity, dynamic:

10.6 mPa.s

10. Stability and reactivity

Thermal decomposition:

No decomposition if stored and handled as

prescribed/indicated.

Hazardous reactions:

No hazardous reactions when stored and handled according to instructions.

Hazardous decomposition products:No hazardous decomposition products known.

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11. Toxicological information

LD50/oral/rat: > 4.343 mg/kg

LC50/by inhalation/rat: > 5,1 mg/l

LD50/dermal/rat: > 3.844 mg/kg

Primary skin irritation/guinea pig: non-irritant

Primary irritations of the mucous membrane/rabbit: Irritant.

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

Additional information:

Misuse can be harmful to health.

12. Ecological information

Ecotoxicity

Information on: Triforine

Toxicity to fish:

Oncorhynchus mykiss/LC50 (96 h): > 1.000 mg/l

Information on: Triforine Aquatic invertebrates:

Daphnia magna/LC50 (48 h): 117 mg/l

Information on: Triforine Aquatic plants: Clefa

Scenedesmus sp./EC50: 380 mg/l

Additional information

Other ecotoxicological advice:

Ecological data are not available. The ecological data given are those of the active ingredient.

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13. Disposal considerations

Must be dumped or incinerated in accordance with local regulations.

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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.

Uncleaned empties should be disposed of in the same manner as the contents.

Packs that cannot be cleaned should be disposed of in the same manner as the contents.

14. Transport information

Not classified as hazardous under transport regulations (ADR RID IMDG/GGVSee ICAO/IATA)

Hazardous good only when carried in inland waterway tanker (ADNR)

15. Regulatory information

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

EEC Directives:

Hazard symbol(s)

Irritant.

R-phrase(s)

R36

Irritating to eyes.

S-phrase(s)

S2

Keep out of reach of children.

S13

Keep away from food, drink and animal feeding stuffs.

S20/21

When using, do not eat, drink or smoke.

S25

Avoid contact with eves.

S36/39

Wear suitable protective clothing and eye/face protection.

Hazard determinant component(s) for labelling: N-METHYLPYRROLIDONE-2, DIMETHYLFORMAMIDE

Other regulations

16. Other information

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

Xi

Irritant.

Т

Toxic.

36/38

Irritating to eyes and skin.

61 20/21 May cause harm to the unborn child.

Harmful by inhalation and in contact with skin.

36

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

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.