

Safety Data Sheet

713930/03

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| <p>1. Identification of the substance/preparation and the company</p> <p>SZX 0722 techn. 04175379</p> <p>Bayer AG, PF-P+T Umweltschutz und Sicherheit D-41538 Dormagen, Telephone: (02133) 515012 In case of emergency: (0214) 303030 (Werkfeuerwehr Bayer Leverkusen)</p> |
| <p>2. Composition/information on ingredients</p> <p>Common name: fencaramide (proposed) CAS name: carbamic acid, [2-methyl-1-[[[1-(4-methylphenyl)ethyl]amino]-carbonyl] propyl]-, 1-methylethyl ester CAS No.: 140923-17-7 hazard symbol: -- Index No.: -- R-phrases: --</p> |
| <p>3. Hazards identification</p> <p>No particular hazards known.</p> |
| <p>*4. First-aid measures</p> <p>GENERAL INFORMATION: Remove victims from the danger zone. If there is a risk of unconsciousness, position and transport in stable lateral position. Remove soiled or soaked clothing immediately.</p> <p>FOLLOWING SKIN CONTACT: Wash skin immediately with copious amounts of water and soap.</p> <p>FOLLOWING EYE CONTACT: Rinse eyes thoroughly with water. Consult an eye specialist.</p> <p>UPON SWALLOWING: Call emergency doctor immediately.</p> <p>INFORMATION FOR THE PHYSICIAN: See Chapter 11 for information on toxicology. Therapeutic measures: Basic aid, decontamination, symptomatic treatment.</p> |
| <p>5. Fire-fighting measures</p> <p>Extinguishing media: sprayed water jet, foam, extinguishing powder, CO₂, sand</p> <p>Fight fire in early stages if safe to do so. Wear respiratory protection. Well ventilated areas: full face mask with combination filter, e.g. ABEK-P2 (offers no protection from carbon monoxide!) Enclosed premises: respirator with independent air supply. Contain firefighting water.</p> <p>In the event of fire, the formation of hydrogen cyanide, carbon monoxide and nitrogen oxides must be anticipated.</p> |
| <p>6. Accidental release measures</p> <p>Use the personal protective equipment listed in Chapter 8. Do not empty into drains or waters. Take up spilled product with dust-binding material or suitable vacuum cleaner. Avoid formation of dust. Fill materials taken up into closable container. To clean the floor and all objects contaminated by this material, use damp cloth. Also place used cleaning materials into closable receptacles.</p> |

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*7. Handling and storage

INFORMATION ON SAFE HANDLING:

Suitable container materials: LDPE (low density polyethylene).
 When using open containers, use local exhaust ventilation to prevent dusts from spreading. Make provision for product and fire-fighting water to be retained.

INFORMATION ON FIRE AND EXPLOSION PREVENTION:

Take precautions to prevent formation of explosive mixtures:
 Keep away from sources of ignition - No smoking.
 Follow the explosion protection guidelines of the "Berufsgenossenschaft der Chemischen Industrie" (Employers' Liability Insurance Association for the German Chemical Industry).
 Keep container tightly closed.
 Prevent formation of dust deposits and whirling-up of dust.

INFORMATION ON STORAGE:

Observe the rules contained in the VCI concept for separate/common storage.
 For reasons of quality assurance, keep dry at temperatures under 40 °C.
 Keep away from food, drink and animal feeding stuffs.

8. Exposure controls/Personal protection

For technical protective measures to limit exposure see also Chapter 7 "Handling and storage".
 Workplace-related thresholds are listed in Chapter 15 "Regulations".

If product is handled while not enclosed, and if skin contact may occur:

Respiratory protection: Fine dust mask (Class P1)
 Respiratory protection instructions ZH1/701 issued by the German Confederation of Commercial Employers' Accident Liability Insurance Associations must be observed.
 Hand protection: protective gloves for chemicals
 Eye protection: goggles

Occupational health:

Keep the place of work clean. Avoid contact with product. Change badly soiled or soaked clothing. Wash hands before breaks and at end of work.

*9. Physical and chemical properties

tested in accordance with

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|------------------------|--|
| Form: | solid, powder |
| Colour: | white - yellow |
| Initial melting point: | approx. 160 °C |
| Vapour pressure: | 7,7x10 ^{Exp-10} hPa at 20 °C (pure active ingredient) |
| | 2,1x10 ^{Exp-9} hPa at 25 °C (pure active ingredient) |

(to be continued)

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***9. Physical and chemical properties** (Continuation) tested in accordance with

Solubility in water: approx. 0,01 g/l at 20 °C
i.e. practically insoluble (pure active ingredient)

in n-hexane: approx. 0,05 g/l at 20 °C (pure active ingredient)

in propan-2-ol: approx. 14 g/l at 20 °C (pure active ingredient)

in toluene: approx. 2,7 g/l at 20 °C (pure active ingredient)

Partition coefficient: log P octanol/water = approx. 3,19

Solid products combustibility: BZ 2 = brief ignition and rapid extinction (VDI 2263). in a dish.

Impact sensitivity: approx. 40 Joule, i.e. not sensitive to impact (Lütolf's drop hammer, VDI 2263)

Risk of dust explosion: may cause dust explosion (modified Hartmann tube, ignition with continuous spark generator)

Spontaneous flammability: not spontaneously flammable (EEC Method A.16)

***10. Stability and reactivity**

Thermal decomposition:
at 251 °C, exothermic (95 kJ/kg) (DTA, heating rate 3 °C/min in glass)

11. Toxicological information

Acute toxicity:

LD₅₀ oral, rat: > 5000 mg/kg (Bayer)

LD₅₀ dermal, rat: > 5000 mg/kg (Bayer)

Irritation of the skin/rabbit: non-irritant (Bayer)

Irritant to the mucous membranes/rabbit: non-irritant (Bayer)

***12. Ecological information**

Fish toxicity:

LC₅₀: > 100 mg/l (96 h); Golden orfe (*Leuciscus idus*) (Bayer)

LC₅₀: > 22,7 mg/l (96 h); Rainbow trout (*Oncorhynchus mykiss*) (Bayer)

Toxicity for Daphnia:

EC₅₀: > 19,8 mg/l (48 h); Water flea (*Daphnia magna*) (Bayer)

Toxicity for algae:

Growth rate:

IC₅₀: > 10 mg/l (72 h); Green algae (*Scenedesmus subspicatus*) (Bayer)

Toxicity to bacteria:

EC₅₀: > 10000 mg/l (Bayer)

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13. Disposal considerations

In cases where larger amounts of the product have become unusable, it should be established whether material utilisation is possible (if necessary, consult the manufacturer/suppliers). Small amounts of the product and uncleaned empty packaging should be packaged and sealed, labelled and transferred to a suitable incinerator in accordance with the local regulations.

Waste code number:

53103 Old stock and remainders of crop protection and pest control products

53104 Production waste from crop protection and pest control products

14. Transport information

GGVSee/IMDG Code: -- UN No.: -- MFAG: -- EmS: --
PG: -- MPO: --
GGVE/GGVS: Class -- No. -- RID/ADR: Class -- No. --
ADNR: Class -- No. -- Cat -- ICAO/IATA-DGR: not restr.
Declaration for land shipment: --
Declaration for sea shipment: --
Declaration for shipment by air: --
Other information:
Not dangerous cargo. Keep dry. Keep separated from foodstuffs.

15. Regulatory information

No labelling is required in accordance with the EEC directives.

German MAK-value (TRGS 900):

General limiting value of dust - 6 mg fine dust per m³ air.

Major incidents regulations of September 20, 1991:

The substance is a "pesticide/agrochemical or active ingredient thereof" in accordance with Appendix III, Part 1 No.21.

VCI storage class: 11

***16. Other information**

Application: fungicidal active ingredient

Adress in case of poisoning,
fire or damage:Bayer AG; Feuerwehr
D-41538 Dormagen; Tel. 02133/514233

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.