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BASF CORPORATION AGRICULTURAL PRODUCTS
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MATERIAL SAFETY DATA SHEET (GERMANY)

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 1 (800) 832 - HELP (U.S.A.)

MSDS NO. A7711 – 8 PRELIMINARY
 CAS NO. 67375-30-8
 DATE: AUG 13, 2001 EMERGENCY

PRODUCT IDENTIFICATION

TRADE NAME : FENDONA 6 % Suspension Concentrate (SC)
COMMON NAME : Alphacypermethrin
SYNONYMS : 1:1 Mixture of (S)-alpha-cyano-3-phenoxybenzyl (1R,3R)-3-(2,2-dichlorovinyl)-2,2- dimethylcyclopropanecarboxylate and (R)-alpha-cyano-3-phenoxybenzyl (1S,3S)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate; AC 900,049; BAS 310 I
INTL PRODUCT CODE : A 7711
CHEMICAL FAMILY : Pyrethroid
MOLECULAR FORMULA : C₂₂H₁₉C₁NO₃
MOLECULAR WEIGHT : 416.3
Appearance : A white odorless slightly viscous liquid.
USAGE : FOR USE ONLY AS AN INSECTICIDE
 Approved under the Control of Pesticides Regulations 1986 for the control of crawling and flying insects in public hygiene and food storage practice situations.
 Approval Number : HSE 4455

COMPOSITION INFORMATION

COMPONENT	CAS. NO.	%	R Phrases	classification
Impurities Alphacypermethrin	67375-30-8	5.80	R25, R50, R53	T . N
R25	: Toxic if swallowed.			
R50	: Very toxic to aquatic organisms.			
R53	: May causes long – term adverse effects in the aquatic environment.			
N-	: Dangerous to the Environment.			
T -	: Toxic.			

HAZARD IDENTIFICATION

- Not classified as hazardous.
- Toxic if swallowed.
- Skin contact may cause transient sensations (tingling, burning or numbness) which disappear after a few hours. Avoid all contact with the skin, especially sensitive areas.
- Very toxic to aquatic organisms may cause long – term adverse effects in the aquatic environment.

STABILITY AND REACTIVITY

STABILITY : Stable under normal storage conditions.
CONDITIONS TO AVOID : Can be decomposed in strong alkaline solution.
POLYMERIZATION : None known.
INCOMPATIBLE MATERIALS : None known.
HAZARDOUS DECOMPOSITION PRODUCTS : Oxides of carbon and nitrogen, hydrogen chloride, and organic chlorides.

FIRST - AID MEASURES

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION:

- Remove to fresh air and away from exposure immediately.
- Use a bag valve mask or similar device to perform artificial respiration (rescue breathing) if needed.
- Obtain medical advice if symptoms develop.

SKIN CONTACT:

- Flush the contaminated skin areas with copious amounts of clean water for 15- 20 minutes.
- Wash areas with soap and water.
- If irritant effects or sensations occur, obtain medical advice if necessary.

EYE CONTACT:

- Wash the eyes immediately by prolonged (at least 15-20 minutes) flushing of the eyes with large amounts of water or normal saline.
- Obtain medical advice if irritation persists.

INGESTION:

- Do not induce vomiting.
- Call a poison control center and/or physician and get medical attention immediately.
- Wash out mouth with potable water provided that person is conscious and able.

NOTES TO PHYSICIAN:

- This product contains a pyrethroid insecticide.
- It is low toxicity and acute poisoning is unlikely to occur.
- Transient skin sensations, including facial paresthesia, have been observed in humans.
- Treat symptomatically.

FIRE FIGHTING MEASURES

FLAMMABILITY	: Not flammable.
FLAMMABLE LIMITS (% BY VOL.)	: Non – flammable. :
AUTOIGNITION TEMP	: No self – ignition over a linear increase in temperature to 400 < 0 > C
IMPACT SENSITIVITY	: No mechanical sensitivity.
DECOMPOSITION TEMP	: Decomposes at 215 < 0 > C.
FIRE EXTINGUISHING MEDIA	: Use water spray, foam, dry-chemical, or carbon dioxide to extinguish fire.

FIRE CONTROL TACTICS:

- Wear self-contained, positive pressure breathing apparatus and full fire fighting protective clothing.
- Keep unnecessary people away. Use as little water as possible.
- Dike area of fire to prevent material run-off. Use spray or fog - solid stream may cause spreading.
- Do not decontaminate personnel or equipment, or handle broken packages or containers without protective equipment as specified in the Exposure Control Section.
- Decontaminate emergency personnel with soap and water before leaving the fire area.
- Avoid breathing dusts, vapors, and fumes from burning materials Control run-off water - if water enters a drainage system, advice the authorities downstream.

HANDLING AND STORAGE

- This product is subject to the Food and Environment Protection Act, 1985, and The Control of Pesticides Regulations, 1986, made under it.
- The product must be used and stored only in accordance with the product label.
- Refer also to the section “ Exposure Controls / Personal Protection”.
- Avoid contact with eyes, skin and clothing.
- Protect from extreme temperatures.
- Store in original container under cool and dry conditions in a secure, well ventilated place, inaccessible to children and away from foodstuffs and animal feedstuffs.

ACCIDENTAL RELEASE MEASURES

- Do not handle broken packages or containers without personal protective equipment as shown under Exposure Control/Personal Protection section.
- Keep away from drains, surface and ground water, soil and vegetation.
- Dike spill area to prevent spill from spreading.
- Absorb the spilled material with an inert absorbent such as granular clay or sawdust.
- Shovel or sweep up carefully and place in a suitable container for disposal (see Waste Considerations section).
- Rinse the spill area and any tools or implements several times with soapy water.
- Contain and absorb this rinsate with inert absorbents and place into the same disposal container as the spilled material.
- Small spills to the soil may be shoveled directly into a covered container for disposal.
- In the event of a large spill, call BASF at 49-621-60-43333 (Germany) or 1-800-832-HELP (U.S.A.) for guidance on available clean-up options.
- Depending on the amount released to the environment, it may be necessary to notify regulatory authorities.
- If the spill occurred to a body of water, immediately notify the appropriate authorities downstream of the spill so that they can decide if any further action is needed.

EXPOSURE CONTROL/PERSONAL PROTECTION

LABORATORY WORKERS

- Must follow prudent laboratory practices.

PESTICIDE APPLICATORS & WORKERS

- Must refer to the Product Label and Directions for Use attached to the product for agricultural use requirements and the measures below as appropriate.

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS are:

Respiratory Protection:

- Not normal required.

Eye Protection:

- Chemical goggles if respiratory protection does not provide eye protection.

Protective Clothing:

- Gloves impermeable to water, mineral oil and organic solvents.
- Long-sleeved shirt, pants and work boots.

Ventilation:

- Work in well-ventilated areas.
- Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.
- Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower. In case of contact, immediately remove clothing and wash skin thoroughly with soap and water.
- Remove any contaminated clothing and wash before reuse.
- Wash thoroughly with soap and water after handling. Do not eat, drink, or smoke at the workplace.

PHYSICAL AND CHEMICAL PROPERTIES

Physical State

: Liquid.

Colour

: White.

Odor

: No significant odor.

Flash Point

: Not applicable.

Flammability

: Not flammable.

Solubility in Water

: Mixes with water to form suspension.

Explosive Properties

: None

Oxidizing Properties

: None.

TOXICOLOGICAL INFORMATION

ACUTE TOXICITY DATA:

Rat acute oral LD < 50 > (males & females)	: 64 mg/kg body weight (vehicle – corn oil) .
Rat acute oral LD < 50 > (males & females)	: > 4000 mg/kg body weight (vehicle – DMSO) .
Acute oral LD < 50 > (males & females)	: > 5000 mg/kg body weight (vehicle – CMC / water) .
Rat acute dermal LD < 50 > (males & females)	: > 2000 mg/kg body weight (vehicle – corn oil) .
Rat 4-hr inhalation LC (males & females)	: 1.59 mg/L, maximum attainable concentration (gravimetric) with one female death at 0.98 mg/L
Rabbit skin irritation	: Non – irritating (EU)
Rabbit eye irritation	: Non – irritating (EU)
Guinea pig skin sensitization (maximization)	: Not a dermal sensitizer.

ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:

When evaluated in standard laboratory tests, this material had the following ecotoxicological profile:

Aquatic Toxicity:

Rainbow trout 96 – hr Lc < 50 >	: 2.8 microgram / L.
Carp 96 – hr Lc < 50 >	: 0.7 – 1.7 microgram / L.

Aquatic Invertebrate Toxicity:

Daphnia magna 48 – hr EC < 50 >	: 0.3 microgram / L.
Daphnia magna 21 – day reproduction EC < 50 >	: ~ 0.1 microgram / L.

Aquatic Plant Toxicity:

Scenedesmus subspicatus 96 – hr EC < 50 >	: 100 microgram / L.
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Bird Toxicity:

Northern bobwhite acute oral LD < 50 >	: 2025 mg / Kg body weight.
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Insect Toxicity:

Honeybee 24 – hr contact LD < 50 >	: 0.33 microgram / bee.
Honeybee 24 – hr oral LD < 50 >	: 0.059 microgram / bee.

Other Invertebrate Toxicity:

Earthworm 14 – day LC < 50 >	: > 100 mg / Kg soil.
Ecotoxicity Appraisal	: Alphacypermethrin technical is very toxic to fish aquatic invertebrates, and insects. It is non – toxic to algae and practically non – toxic to birds.

ENVIRONMENTAL FATE INFORMATION:

- Alphacypermethrin, the active ingredient in this formulation, is slowly degraded in soil under laboratory conditions.
- Under field conditions, the half-life has varied from 14 to 112 days.
- Alphacypermethrin is readily hydrolyzed at alkaline pHs and is stable at acidic pHs.
- Photolysis in aqueous solution is rapid.

DISPOSAL CONSIDERATIONS

- Keep all sources of ignition away and avoid creating dusty conditions when disposing of this material.
- To avoid disposal, all attempts should be made to use this product completely, in accordance with its intended use.
- If this is not possible, handle with care and dispose in a safe manner.
- Empty containers or liners may retain some product residues.
- DO NOT REUSE.
- Rinse the container or liner as needed for disposal.
Render it unusable by crushing or puncturing. Dispose of the container and any rinsate in a safe manner.
- Follow all applicable community, national or regional regulations regarding waste management methods.
- It is the ultimate responsibility of the waste generator to determine at the time of disposal whether this product and/or "empty" container residue meets any hazardous waste criteria.

TRANSPORT INFORMATION

DOT REGULATORY INFORMATION

DOT HAZARDOUS DESCRIPTION – PYRETHROID PESTICIDE, LIQUID, TOXIC (> 90 % ALPHAS – CYPERMETHRIN).

DOT LABEL – 9

DOT CLASS / DIVISION 9	UN NUMBER UN 3082	GROUP III	Packing Instructions/ Max Net Qty per PKg Passenger	Cargo
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IMO REGULATORY INFORMATION

IMO HAZARDOUS DESCRIPTION - PYRETHROID PESTICIDE, SOLID, TOXIC (> 90 % ALPHAS – CYPERMETHRIN), MARINE POLLUTANT

IMO LABEL – CLASS 6.1; MARK: MARINE POLLUTANT

IMO CLASS / DIVISION 9	UN NUMBER UN 3082	GROUP III	Packing Instructions/ Max Net Qty per PKg Passenger	Cargo
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IATA REGULATORY INFORMATION

IATA HAZARDOUS DESCRIPTION - PYRETHROID PESTICIDE, SOLID, TOXIC (> 90 % ALPHAS – CYPERMETHRIN).

IATA LABEL – 6.1

IATA CLASS / DIVISION 9	UN NUMBER UN 3082	GROUP III	Packing Instructions/ Max Net Qty per PKg Passenger 619 / 100 Kg	Cargo 619 / 200 Kg
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ADR/RID REGULATORY INFORMATION

PROPER SHIPPING NAME : UN 3349 PYRETHROID PESTICIDE, SOLID, TOXIC (> 90 % ALPHAS – CYPERMETHRIN).

CLASS/ITEM : 9 / 73 C.

LABEL : 9

PACKING GROUP/EXCEPTIONS:

REGULATORY INFORMATION

Labeling Recommendations According to the EU Dangerous Preparations Directive as well as BASF Recommendations:

Symbol:

“T”	Toxic
“Xn”	Harmful
“N”	Dangerous for the environment

Risk Phrases:

R – 25	Toxic if swallowed.
R – 50 / 53	Very toxic adverse effects in the aquatic environment.
R – 53	May cause long – term adverse effects in the aquatic environment.

Safety Phrases:

S-02	Keep out of reach of children.
S-13	Keep away from food, drink and animal feeding stuffs.
S-20/21	When using do not eat, drink or smoke.
S-24	Avoid contact with skin.
S-37	Wear suitable gloves.
S-46	If swallowed, seek medical advice immediately and show this container or label.

Label Name Alphacypermethrin.

FAO Hazard Labeling Green band

OTHER

APPENDIX IMPORTANT:

- While the descriptions, designs, data and information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only.
- Because many factors may affect processing or application/use, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use.
- No warranties of any kind, either express or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described or designs, data or information set forth, or that the products, designs, data or information may be used without infringing the intellectual property rights of others.
- In no case shall the descriptions, information, data or designs provided be considered a part of our terms and conditions of sale.
- Further, you expressly understand and agree that the descriptions, designs, data and information furnished by BASF hereunder are given gratis and BASF assumes no obligation or liability for the descriptions, designs, data and information given or results obtained, all such being given accepted at your risk.