Release date: 11.02.2009
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Version: 11

SAFETY DATA SHEET
FLUMITE 200

1 SECTION: IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY

1.1 Product identifiers

Trade name: Flumite 200
CAS: 162320-67-4, 81065-51-2
Active ingredient: 3-(2-chlorophenyl)-6-(2,6-difluorophenyl)-1,2,4,5-Tetrazine (Diflovidazin)

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Identified uses: acaricide in agricultural production
Exclusively used as an acaricide. The product comes ready to use for the end user form or a form that has to be filled final container.

1.3 Details of the supplier of the safety data sheet:

Company name: AGRO-CHEMIE Kft.
Address: 1225 Budapest, Bányalég u. 47-59.
Telephone: (+36) 1/9000-800 Fax: (+36) 1/9000-810
Email address: fanny.radics@agrochemie.hu
Emergency telephone: (+36) 1/9000-800 (8-16)

1.4 Emergency information:

Egészségügyi Toxikológiai Tájékoztató Szolgálat (ETTSZ)
1096 Budapest, Nagyvárad tér 2.
Telephone: (36) 1/476-6464, (36) 80/201-199 (0-24)

2 SECTION: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008

Hazard class and category	**Hazard statement(s)**
Aquatic Acute 1	H400- Very toxic to aquatic life
Aquatic Chronic 1	H410- Very toxic to aquatic life with long lasting effects

2.2 Label elements

Pictogram: (Labelling according Regulation (EC) No 1272/2008)

GHS 09

Signal word **Warning**

Hazard statement(s):

H410 - Very toxic to aquatic life with long lasting effects

Precautionary statement(s):

P102 - Keep out of reach of children.
P270 - Do not eat, drink or smoke when using this product.
P391 - Collect spillage.
P501 - Dispose of contents/container in accordance with all local and national regulations
SP1 - Do not contaminate waters with pesticides or containers! (Do not clean equipment or its parts in the vicinity of surface waters! Avoid contamination of drains)
SPe3 - To protect aquatic organisms respect an unsprayed buffer zone of 5m to surface water bodies

2.3 Other hazards

Other crop protection regulation:
It must not be used inside the drinking water protection zone, it can be used on the external protective zone and within the hydrogeological protective zone depending on authorization.
For the sake of human health and prevent threats to the environment, observe the instructions for use.
Read the instructions before use and make sure you understand!

3 SECTION: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances: -

3.2 Active Ingredient:

Substance	Conc. (%)	Classification	Hazard statement(s)	CAS	EC/ List No.	REAC H No.
diflovidazin *3-(2-Chlorophenyl)-6-(2,6-difluorophenyl)-1,2,4,5-tetrazine*	18 %	Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Eye Irrit. 2	H302 H400 H410 H319	162320-67-4	605-284-5	-
Dispersant	4,2 %	Eye Dam. 1	H318	81065-51-2	617-192-2	

The other components of the product are not considered as a hazardous substance under the existing legislation, or their concentration in the formulation does not reach the level above the presence of the hazard classification should be made and should be considered.
For the full text of the H-Statements mentioned in this Section, see Section 16.

4 SECTION: FIRSTAID MEASURES

4.1 First aid:

General information: Immediately remove contaminated clothing.
Inhalation: In case of inhalation remove person to fresh air and keep him quiet and warm. If you feel unwell, seek medical advice.
Skin: Remove contaminated clothing. Wash skin thoroughly with mild soap and plenty of water. Wash clothing before re-use. Get medical attention if irritation occurs.
Eye: Flush eyes promptly with copious flowing water for at least 15 minutes. Get medical attention immediately.
Ingestion: If swallowed, wash mouth thoroughly with plenty of water and give water to drink.
Get medical attention immediately. Never give an unconscious person anything to drink.

4.2 Most important symptoms and effects, both acute and delayed:

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed:

In case of poisoning, allergic disease, or suspected, the work should be discontinued immediately in half, and after-the-spot first aid medical care institutions need to ensure and show the label to the physician, respectively.

5 SECTION: FIRE-FIGHTING MEASURES

5.1 Extinguishing media:

Carbon dioxide, foam, powder, water spray. Use appropriate extinguishing media to surrounding fire conditions.
Unsuitable extinguishing media: a strong, high-volume water jet; the products pose a threat to the environment, do not dilute them.

5.2 Special hazards arising from the substance or mixture:

Toxic fumes under fire conditions (CO, CO_2, Cl_2, NOx, HCl, F_2, HF).

5.3 Advice for firefighters:

Wear self-contained breathing apparatus and chemical-protective clothing.

5.4 Further information:

In case of fire and/or explosion do not breathe fumes. Enclose the area of fire and keep unprotected persons far away. 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 SECTION: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Protective gloves and respirator. Avoid contact with skin and eyes. Evacuate the area of all non-essential personnel. The usual safety measures for chemical substances must be observed. Remind employees adverse health impacts of products.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
Spillage: absorb with sand. Prevent contamination of water and sewer system.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7 SECTION: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid breathing vapours. Use with adequate ventilation. Do not smoke, eat or drink during treatment. Handle with care. Stir well before use.
When using do not eat, drink or smoke. Wash hands after handling the product.
It is suggested to wash hands thoroughly in breaks and after worktime. Avoid every spark and fire sources. Protect from electrostatistic filling up.

7.2 Conditions for safe storage, including any incompatibilities

The products were stored in original, unopened packaging, well-ventilated, cool, dry place. It should be stored to prevent access by children. Food, beverages and animal feed must be kept separate. Store in a solid, well-floored warehouse insulation to prevent environmental contamination.

Minimum storage temperature: - 5 °C

Maximum storage temperature: 50 °C

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8 SECTION: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:

Substances: no data available

The product does not contain component, which has limit value.

8.2 Exposure controls:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

8.2.1 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Technical measures:

- Usual safety measures for chemical substances must be respected.
- Ensure adequate ventilation.
- Safety equipment, providing washing facilities.

Hygiene measures:

- While you work, do not eat, drink or smoke!
- The work breaks and after the work is completed thorough hand washing or washing required.
- Separate working clothes from everyday clothing.

8.2.2 Personal protective equipment:

Respiratory: It is not needed in case of normal use. If it is irritating for someone, please use respiratory system.

Hand: Protective gloves (EN 374) which are suitable against chemicals (for example nitril rubber, neopren, PVC). Do not use gloves made from poli-vinil-alcohol. If the worktime is repeated, longer or prolonged use protective gloves made for 240 minutes break-through time. If the worktime is less, use gloves made for 60 minutes break-through time.

Always do a risk assessment about the workplace and choose the best equipment for the people.

Skin: Completed protective clothes against chemicals. The type of the protective clothing depends on the concentration and quantity at workplaces.

Eye: Special measures are not necessary with proper using the product. Avoid contact with the eyes

8.2.3 Environmental exposure controls:

Do not release into the environment

9 SECTION: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	purple, viscous liquid

Odour	characteristic
Odour Threshold	No data available
pH érték	5,5-6,0 (20 °C)
Melting point/ freezing point	No data available
Solubility	Soluble in water
Partition coefficient: noctanol/water	NA
Relative density	1.09 kg/dm^3 (20 °C)
Upper/lower flammability or explosive limits	Non-flammable
Boiling point	~100 ^{0}C
Vapour density	No data available
Vapour pressure	No data available
Flash point	Non-flammable
Decomposition temperature	No data available
Viscosity	350-550 mPa. s (Brookfield)
Explosive properties	No data available
Oxidizing properties	No data available
Auto-ignition temperature	No data availabled

9.2 Other safety information

No data available

10 SECTION: STABILITY AND REACTIVITY

10.1 Reactivity: No data available.

10.2 Chemical stability: Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions: Under normal circumstances it is not possible hazardous reactions.

10.4 Conditions to avoid: High temperatures (>45 °C), frost.

10.5 Incompatible materials: Bases.

10.6 Hazardous decomposition products: Toxic fumes under fire conditions (CO, CO2, Cl2, NOx, HCl, F2, HF).

11 SECTION: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

- Acute toxicity

Oral:	LD_{50}:	>2000 mg/kg (rat)
Dermal:	LD_{50}:	>2000 mg/kg (rabbit)
Inhalation:	LC_{50} (4h):	>2000 mg/l (rat)

- Skin corrosion/irritation: non-irritating
- Serious eye damage/eye irritation: Minimal eye irritation (redness) appeared in rabbits testing
- Respiratory or skin sensitisation: Non-sensitizing
- Germ cell mutagenicity: the drug is not mutagenic
- Carcinogenicity: no carcinogenic effects 104-week rat-week test
  IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC
- Teratogenicity:
  Rat maternal toxicity: 70 mg active ingredient /kg /day - No teratogenic
  Rabbit: 80 mg/kg/nap - No teratogenic
- Reproductive toxicity: No data available.
- Specific target organ toxicity - single exposure: No data available.
- Specific target organ toxicity - repeated exposure: No data available.
- Aspiration hazard: No data available.

11.2 Symptoms and direct effects:

Skin: It can be harmful if absorbed through skin. It may cause irritation to the skin.
Ingestion: May be harmful if swallowed
Eye: May cause eye irritation.

11.3 Additional Information:

RTECS: No data available.

12 SECTION: ECOLOGICAL INFORMATION

12.1 **Toxicity:**

Fish:	Acute TLm: (96 h): > 400 mg/l (active ingredient) (rainbow trout)
	NOEC (14 nap): 50 mg/l (Flumite 200) (rainbow trout)
Daphnia:	EC50 (48 h): 0.1443 mg/l (active ingredient)
Algae Growth:	IC50 (72 h): > 400 mg/l (active ingredient)
Bird:	Acute LD50: >2000 mg/kg (active ingredient) (Japanese quail)
Bee:	Acute LD50: >25 µg/bee (active ingredient)
log Pow:	3.3

12.2 Persistence and degradability: Based on the results of tests of biodegradability this product is not readily biodegradable.

12.3 Bioaccumulative potential: No data available

12.4 Mobility in soil: Low mobility (Koc: 2000-5000)

12.5 Results of PBT and vPvB assessment: No data available

12.6 Other adverse effects: Very toxic to aquatic life with long lasting effects

13 SECTION: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal method: open dumping or burning of this material or its packaging is prohibited. If spilled material cannot be disposed of by use according to label instructions, an acceptable method of disposal is to incinerate in accordance with local, state and national environmental laws, rules, standards and regulations.
Empty container: Non-returnable containers which held this material should be cleaned, prior to disposal, by triple-rinsing. Containers which held this material may be cleaned by being triple-rinsed, and recycled, whit the rinsate being incinerated.

13.2 13.1.1 Waste codes / waste designations according to EWC / AVV:

020108: agrochemical waste containing dangerous substances
200119: pesticides

14 SECTION: TRANSPORT INFORMATION

14.1 UN No.

ADR/RID/IMDG/IATA: 3082

14.2 UN proper hipping name

ADR/RID/IMDG/IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQOID, N.O.S. (3-(2-chlorophenyl)-6-(2,6-difluorophenyl)-1,2,4,5-Tetrazine)

14.3 Transport hazard class(es)

ADR/RID/IMDG/IATA: 9.

14.4 Packaging group

ADR/RID/IMDG/IATA: III.

14.5 Environmental hazards

ADR/RID/IMDG/IATA: dangerous for the environment, marine pollutant

14.6 Special precautions for user

No data available

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not evaluated

15 SECTION: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

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)
The use of this chemical entails the obligation to "Risk Assessment" by the employer under the provisions of the workers, these chemicals should not be subjected to health checks to evaluate the results of risks shows that the relation of the type and quantity of the chemical substance mode and contact with the exposure as well.
Only the "moderate risk" to the health and safety of workers and the measures provided for in that regulation is sufficient to reduce the risk.
Chemical Safety Assessment
Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

15.2 Chemical Safety Assessment: For this product a chemical safety assessment was not carried out

16 SECTION: OTHER INFORMATION

General information

Section 1-15. is based on the present state of our knowledge and only serves to showcase the product to the health, safety and environmental requirements. The safety data sheet refers to the product as supplied.

Sources of data used to compile the safety data sheet:

The test results of the mixture
Safety Data Sheet of the mixture components

Classification of the mixture was done according to the No. 1272/2008/EC regulation:
Based on the measured values of the toxicological and ecotoxicological properties of the mixture

Aquatic Acute 1	H400
Aquatic Chronic 1	H410

Below are the H-phrases that can be found in the 3rd section of the safety data sheet, as well as the full texture of the hazard classes and categories.

Hazard statements

H302	Harmful if swallowed.
H318	Causes serious eye damage
H319	Causes serious eye irritation
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Hazard Class and Category

Acute Tox. 4	Acute toxicity Category 4
Aquatic Acute 1	Hazardous to the aquatic environment, acute category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic category 1
Eye Irrit. 2	Serious eye irritation Category 2
Eye Dam. 1	Serious eye damage Category 1

Legal notice

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

Data sheet history

This Safety Data Sheet is compiled using the manufacturer's data sheet.

Review:

Chapter	Reason of the change	Date	Version
1	Details of the supplier of the safety data sheet	05-06-2020	11.