

SAFETY DATA SHEET

CHINUFUR 40 FS

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

1.1 Product identifiers

Trade name: Chinufur 40 FS

CAS: 1563-66-2

Active ingredient: carbofuran

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

Identified uses: Insecticides for agricultural production.

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: peter.czegledi@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)
Acute Tox. 2, Oral	H300- Fatal if swallowed
Acute Tox. 2 Inhalation	H330- Fatal if inhaled
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 06

GHS 09

Signal word

Danger

Hazard statement(s):

H300 - Fatal if swallowed

H330 - Fatal if inhaled

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

Precautionary statement(s):

P260 - Do not breathe dust/fumes/gas/mist/vapours/spray.

P264 - Wash hands thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P273 - Avoid release to the environment.

P284 - Wear respiratory protection.

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P391 - Collect spillage.

SP1 - Do not contaminate waters with pesticides or containers! (Do not clean equipment or its part in the vicinity of surface waters! Avoid contamination of drains)

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3 SECTION: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances: -

3.2 Active Ingredient:

Information on ingredients: Carbofuran as active ingredient, auxiliaries, water

Substance	Conc. (%)	Classification	Hazard statement(s)	CAS	EC/ List No.	REACH No.
Carbofuran	40 %	Acute Tox. 2, Oral Acute Tox. 2 Inhalation Aquatic Acute 1 Aquatic Chronic 1	H300 H330 H400 H410	1563-66-2	216-353-0	-

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: Call a doctor immediately. Present this safety data sheet to the physician in attendance. Immediately remove contaminated clothing.

Inhalation: Remove to fresh air, if breathing difficulty or discomfort occurs and persists, contact a medical doctor

Skin: Wash with plenty of water and soap, contact a medical doctor

Eye: Immediately flush with water for at least 15 minutes, lifting upper and lower eyelid.

If irritation persists, seek medical advice.

Ingestion: Rinse mouth with water (only if the person is conscious). Drink a lot of water and induce vomiting by touching the back of the throat with a finger of the victim. Do not induce vomiting or give anything by mouth to an unconscious person. Call a physician immediately.

Gastric lavage (performed by a trained nurse): 2 tablespoons pulv. 300 ml of 10% carbo medicinalis magnesium sulphate solution through a tube.

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:

This product contains carbofuran, a reversible cholinesterase inhibitor.

Antidote atropine sulphate, which will be given intravenously until the symptoms disappear.

If poisoning occurs seek medical service or see a doctor and show the label of the chemical or the material safety data sheet.

5 SECTION: FIRE-FIGHTING MEASURES

5.1 Extinguishing media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide, alcohol type foams.

5.2 Special hazards arising from the substance or mixture:

Toxic fumes and gases may be emitted.

5.3 Advice for firefighters:

Complete personal protective equipment.

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

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Do not breathe vapour, avoid contact with skin, avoid contact with eyes.

Protective equipment: protective goggles, protective gloves, protective boots, protective clothing, suitable respiratory protective device

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 electrostatic filling up. Adequate ventilation. Trained staff to handle with this chemical. It is forbidden smoking, eating during worktime.

7.2 Conditions for safe storage, including any incompatibilities

No special measures necessary if stored and handled correctly.

Storage: in cool, dry place. Keep away from heat, sources of ignition

UN packing.

Wear protective equipment during working. Keep in labelled containers. Keep away from children, food, feed and drinks.

Storage stability: storage duration 24 Month

The stated storage temperature should be noted.

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: Protective goggles. (EN 166)

- 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, liquid viscous
Odour	mild, characteristic
Odour Threshold	No data available
pH érték	No data available
Melting point/ freezing point	-8 °C
Solubility	Soluble in water
Partition coefficient: noctanol/water	NA
Relative density	1.10 kg/dm ³ (20 °C)
Upper/lower flammability or explosive limits	Non-flammable
Boiling point	~100 °C
Vapour density	No data available
Vapour pressure	No data available
Flash point	Non-flammable
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Auto-ignition temperature	No data available

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: On burning carbon oxides, nitrogen oxides.

11 SECTION: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

- Acute toxicity
 - Oral: LD₅₀: 8 mg/kg (rat)
 - Dermal: LD₅₀: >5000 mg/kg (rabbit)
 - Inhalation: LC₅₀ (4h): 79 mg/l (rat)
- Skin corrosion/irritation: No data available.
- Serious eye damage/eye irritation: No data available.
- Respiratory or skin sensitisation: No data available.
- Germ cell mutagenicity: No data available.
- Carcinogenicity:
 - 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: No data available.

- 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: harmful
Inhalation: harmful
Ingestion: harmful
Eye: harmful

11.3 Additional Information:

RTECS: No data available.

May cause cyanosis., Gastrointestinal disturbance, Incoordination., Lachrymation, Convulsions

12 SECTION: ECOLOGICAL INFORMATION

12.1 Toxicity:

Fishes: LC50 (48 h): 22-29 mg/l (rainbow trout)
Daphnia: EC50 (48 h): 38,6 mg/l
Bird: LD50 : 5,63 µl/kg (pheasants)
Bee: toxic

12.2 Persistence and degradability: No data available

12.3 Bioaccumulative potential: No data available

12.4 Mobility in soil: No data available

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, with 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: 2992

14.2 UN proper shipping name

ADR/RID/IMDG/IATA: CARBAMATE PESTICIDES, LIQUID, TOXIC (Carbofuran)

14.3 Transport hazard class(es)

ADR/RID/IMDG/IATA: 6.1

14.4 Packaging group

ADR/RID/IMDG/IATA: II.

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

Acute Tox. 2, Oral H300

Acute Tox. 2 Inhalation H330

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

H300	Fatal if swallowed
H330	Fatal if inhaled
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Hazard Class and Category

Acute Tox. 2, Oral	Acute toxicity Category 2, Oral
Acute Tox. 2 Inhalation	Acute toxicity Category 2, Inhalation
Aquatic Acute 1	Hazardous to the aquatic environment, acute category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic 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
2,16	Change the candidate sections of the safety data sheet in accordance with the applicable legal regulations	2018-07-26	8.