

SAFETY DATA SHEET (SDS)

TITLE: **FLONICAMID 500 WG**

1.0 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY / UNDERTAKING

1.1 Product Identifier

Identification on the label / Trade name : CIBA FLONICAMID 500 WG
Common Name : Flonicamid 500 g/kg WG
Index Number : N/A
REACH registration No. : N/A

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

Insecticide

1.3 Details of the Manufacturer / Supplier of the safety data sheet:

Supplier CIBA AGRIPHARMA SARL
78 Boulevard Haussmann
75008 Paris , France
Tel Tel: +33 6 51 39 90 00
E-mail administration@ciba- agripharma.com
Webpage www. ciba- agripharma.com

0.1 Emergency Phone Number (24 hours)

+33 6 51 39 90 00

2.0 HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Serious eye damage/eye irritation, Category 2 H319
Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :

GHS07

Signal word (CLP) : Warning

Hazard statements (CLP) : H319 - Causes serious eye irritation.

Precautionary statements (CLP) : P264 - Wash hands, forearms and face thoroughly after handling. P280 - Wear protective clothing, eye protection, face protection, protective gloves. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists: Get medical advice/attention.

EUH-statements : EUH208 - Contains Disodium maleate(371-47-1). May produce an allergic reaction. EUH401 - To avoid risks to human health and the environment, comply with the instructions for use.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

3.0 COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	Conc. (% w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
flonicamid (ISO); N-(cyanomethyl)-4-(trifluoromethyl)pyridine-3-carboxamide	(CAS-No.) 158062-67-0 (EC Index-No.) 616-216-00-9	50 - 80	Acute Tox. 4 (Oral), H302
Methylnaphtalenesulfonic acid/formaldehyde, copolymer, sodium salt	(CAS-No.) 81065-51-2	1 - 5	Eye Irrit. 2, H319 Aquatic Chronic 3, H412
Isotridecanol, ethoxylated	(CAS-No.) 69011-36-5 (EC-No.) 500-241-6	1 - 5	Aquatic Chronic 3, H412
2,5-Furandione, polymer with 2,4,4-trimethylpentene, sodium salt	(CAS-No.) 37199-81-8	1 - 5	Eye Irrit. 2, H319
Docusate sodium	(CAS-No.) 577-11-7 (EC-No.) 209-406-4 (REACH-no) 01-2119491296-29	1 - 5	Skin Irrit. 2, H315 Eye Dam. 1, H318
Disodium maleate	(CAS-No.) 371-47-1 (EC-No.) 206-738-1	0.1 - 0.5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335
toluene	(CAS-No.) 108-88-3 (EC-No.) 203-625-9 (EC Index-No.) 601-021-00-3	< 0.2	Flam. Liq. 2, H225 Repr. 2, H361d Asp. Tox. 1, H304 STOT RE 2, H373 Skin Irrit. 2, H315 STOT SE 3, H336

4.0 FIRST AID MEASURES

4.1. Description of first aid measures

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

Wash thoroughly with soap and water.

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

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

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

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

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5.0 FIRE – FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media:
dry powder, foam, water spray

Unsuitable extinguishing media for safety reasons:
carbon dioxide

5.2. Special hazards arising from the substance or mixture

carbon monoxide, Carbon dioxide, nitrogen oxides, sulfur oxides

The substances/groups of substances mentioned can be released in case of fire.

5.3. Advice for fire-fighters

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.

6.0 ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

Do not allow contamination of public drains or surface or ground waters. Inform local water plc if spillage enters drains and the Environmental Protection Agency if it enters surface or ground waters. Keep people and animals away.

6.3. Methods and material for containment and cleaning up

For small amounts: Contain with dust binding material and dispose of.

For large amounts: Sweep/shovel up.

Avoid raising dust. 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.

6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

7.0 HANDLING AND STORAGE

7.1. Precautions for safe handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

Protection against fire and explosion:

Avoid dust formation. Dust can form an explosive mixture with air. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

7.2. Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds.

Further information on storage conditions: Keep away from heat. Protect against moisture. Protect from direct sunlight.

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.

7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

8.0 EXPOSURE CONTROL/PERSONAL PROTECTION

8.1. Control parameters

Components with occupational exposure limits

Refer to the current schedule of occupational exposure standards published by the Irish HSA. For normal use and handling refer to the product label/leaflet. In all other cases the following apply.

| No occupational exposure limits known.

8.2. Exposure controls

Personal protective equipment

Respiratory protection:

Suitable respiratory protection for higher concentrations or long-term effect: Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

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), butyl rubber (0.7 mm) etc.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. 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 EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures

The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

9.0 PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Form:	granules
Colour:	brown
Odour:	ammonia-like
Odour threshold:	Not determined due to potential health hazard by inhalation.

pH solution	: 8.3 (1%; 22 °C)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: Not self-igniting
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not flammable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: Not applicable
Density	: 0.543 - 0.582 g/ml (Before - After compaction)
Solubility	: No data available.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: Not applicable
Explosive properties	: Not explosive.
Oxidising properties	: Non oxidizing.
Explosive limits	: No data available

9.2. Other information

No additional information available

10.0 STABILITY AND RELIABILITY

10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

10.3. Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

10.4. Conditions to avoid

See MSDS section 7 - Handling and storage.

10.5. Incompatible materials

Substances to avoid:
strong oxidizing agents, strong bases, strong acids

10.6. Hazardous decomposition products

Hazardous decomposition products:
No hazardous decomposition products if stored and handled as prescribed/indicated.

11.0 TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)

LD50 oral rat	> 2000 mg/kg bodyweight (OECD 423 method)
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402 method)
LC50 inhalation rat (mg/l)	> 5.36 mg/l

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)

Additional information: Not irritating to rabbits on cutaneous application
(OECD 404 method)

Serious eye damage/irritation: Causes serious eye irritation.

Additional information: Irritating to rabbits on ocular application
(OECD 405 method)

Respiratory or skin sensitisation: Not classified (Based on available data, the classification criteria are not met)
Additional information: Does not cause cutaneous sensitisation for guinea-pigs

Reproductive toxicity: Not classified (Based on available data, the classification criteria are not met)

flonicamid (ISO); N-(cyanomethyl)-4-(trifluoromethyl)pyridine-3-carboxamide (158062-67-0)	
NOAEL (animal/male, F0/P)	18 mg/kg bodyweight (OECD 416 method)
NOAEL (animal/male, F1)	30 mg/kg bodyweight (OECD 416 method)
NOAEL, oral, rat, male	109 mg/kg bw/day (18 months, OECD 414)
NOAEL, oral, rat, female	100 mg/kg bw/day (OECD 414)
NOAEL, oral, rabbit, female	7.5 mg/kg bw/day ((OECD 414))
NOAEL, Developmental toxicity, oral, rat, female	100 mg/kg bw/day (OECD 414)
NOAEL, Developmental toxicity, oral, rabbit, female	> 25 mg/kg bw/day (OECD 414)

STOT-single exposure: Not classified (Based on available data, the classification criteria are not met)

STOT-repeated exposure: Not classified (Based on available data, the classification criteria are not met)

flonicamid (ISO); N-(cyanomethyl)-4-(trifluoromethyl)pyridine-3-carboxamide (158062-67-0)	
NOAEL (subchronic, oral, animal/male, 90 days)	60 mg/kg bodyweight (OECD 408 method)
NOAEL, mouse, male, female	15.3 mg/kg bw/day
NOAEL, Dog, male, female	8 mg/kg bw/day

Aspiration hazard : Not classified (Technical impossibility to obtain the data)

12.0 ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified (Based on available data, the classification criteria are not met)
Hazardous to the aquatic environment, long-term (chronic)	: Not classified (Based on available data, the classification criteria are not met)
LC50 fish 1	> 100 mg/l (96 H; Oncorhynchus mykiss)
EC50 Daphnia 1	> 100 mg/l (48 H; Daphnia magna)
ErC50 (algae)	> 100 mg/l (72 H; Pseudokirchneriella subcapitata)

flonicamid (ISO); N-(cyanomethyl)-4-(trifluoromethyl)pyridine-3-carboxamide (158062-67-0)

NOEC chronic fish	10 mg/l (33 d; Pimephales promelas; OECD 210)
NOEC chronic crustacea	3.1 mg/l (21 d; Daphnia magna; OECD 211)
NOEC chronic algae	46 mg/l (72 H; Pseudokirchneriella subcapitata; OECD 201)

12.2. Persistence and degradability

flonicamid (ISO); N-(cyanomethyl)-4-(trifluoromethyl)pyridine-3-carboxamide (158062-67-0)

Persistence and degradability	Not readily biodegradable.
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Methylnaphtalenesulfonic acid/formaldehyde, copolymer, sodium salt (81065-51-2)

Persistence and degradability Not rapidly degradable.

Isotridecanol, ethoxylated (69011-36-5)

Persistence and degradability	Readily biodegradable.
Biodegradation	> 60 % CO ₂ (28d)

12.3. Bioaccumulative potential

flonicamid (ISO); N-(cyanomethyl)-4-(trifluoromethyl)pyridine-3-carboxamide (158062-67-0)

Log Pow	-0.24 (20 °C)
Bioaccumulative potential	Not potentially bioaccumulable.

Isotridecanol, ethoxylated (69011-36-5)

Bioaccumulative potential	Negligible.
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12.4. Mobility in soil

flonicamid (ISO); N-(cyanomethyl)-4-(trifluoromethyl)pyridine-3-carboxamide (158062-67-0)

Log Koc	0.77
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12.5. Results of PBT and vPvB assessment

Mainman

This substance/mixture does not meet the PBT criteria of REACH

regulation, annex XIII This substance/mixture does not meet the vPvB

criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

13.0 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste treatment methods	: Do not dispose of with domestic waste.
Product/Packaging disposal recommendations	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber. Dispose of in accordance with relevant local regulations.
Ecology - waste materials	: Do not discharge into drains or rivers.

14.0 TRANSPORT INFORMATION

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

15.0 REGULATORY INFORMATION

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

16.0 OTHER INFORMATION

The information contained herein relates only to the specified material identified. CIBA AGRIPHARMA believes that such information is accurate and reliable as of the data of this material safety data sheet, but no representation, guarantee or warranty, expressed or implied, is made as to the accuracy, reliability, or completeness of the information. CIBA AGRIPHARMA urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application. No liability will be accepted for any injury, loss or damage resulting from any failure to take account of information or advice contained in this safety data sheet.