

SAFETY DATA SHEET According to Annex II of Regulation (EC) № 1907/2006 and Regulation (EC) № 1272/2008 [CLP]	Issue date: 14.12.2011 Edition № 6
CORIDA	Date of edition: 28.01.2019

1. IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND OF THE COMPANY/ UNDERTAKING

1.1. Product identifiers

Name of the substance : Tribenuron – methyl 750 g/kg WDG
 EC № : -
 Registration № (REACH) : -
 CAS № : -

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

Identified uses : Herbicide

1.3. Details of the supplier of the safety data sheet

Manufacture/ Supplier : Zenith Crop Sciences Bulgaria Ltd
 Street/ Zip Code : 75-83 Dimitar Manov Str. 1408 Sofia, Bulgaria
 Phone : +359 2 91 50 500
 The phone number is available only during office hours.

1.4. Emergency telephone number

Available : +44 (0)800 246 1274 (dangerous goods safety advisor)
 : 24/7
 Language telephone line : English

2. HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture

Classification According Regulation (EC) No 1272/2008 (CLP) : *Aquatic Acute 1; H400*
Aquatic Chronic 1; H410

2.2. Label elements

Labeling according to Regulation (EC) No 1272/2008 (CLP)

Hazard pictograms :



Signal words : **WARNING**

Hazard statements : **H410** – Very toxic to aquatic life with long lasting effects

- Precautionary Statements** : **Response**
P391 – Collect spillage
- Disposal**
P501 – Dispose of contents/ container to a licensed hazardous – waste disposal contractor or collection site except for empty clean containers which can be disposed of as non – hazardous waste
- Additional Precautionary Statements** : **EUH208** – Contains tribenuron – methyl. May produce an allergic reaction
EUH 401 – To avoid risks to human health and the environment, comply with the instructions for use
- 2.3. Other hazards** : Not known

3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.1. Substances : Refers to a mixture

3.2. Mixtures

Description of the mixture

Name	CAS №	EC №	Index №	REACH Reg. №	Concentration (% w/w)	Classification according Regulation (EC) № 1272/2008 (CLP)
Tribenuron methyl (ISO); methyl 2-[N-(4-methoxy-6-methyl-1,3,5-triazin-2-yl)-N-methylcarbamoylsulfamoyl] benzoate	10120 0-48-0	401- 190-1	607- 177- 00-9	-	75 ± 2.5	Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410
Tensiofix BCZ; (mixture)	-	-	-	-	<1	Flam. Sol. 2; H226 Eye Dam. 1; H318 Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Irrit. 2; H315 STOT SE 3; H335 Aquatic Chronic 3; H412

For full text of Hazard categories and Hazard statements: see SECTION 16 (v).

4. FIRST AID MEASURES

4.1. Description of first aid measures

- General instructions : Consult your doctor in case of persisting or suspected health problems (eye or skin irritation or allergic skin reaction).
- Following inhalation : Stop working. Leave the exposure area. Remove from exposure area to fresh air. Provide artificial breathing if the breathing has stopped. Seek medical attention immediately
- Following skin contact : Remove contaminated clothing and shoes. Wash affected area with plenty of water and soap and rinse thoroughly. Seek medical attention if necessary. Wash contaminated clothing before next use

- Following eye contact : Immediately rinse for at least 15 minutes with large quantity of drinking water while holding eyes open. Remove contact lenses if present and easy to do so. The contact lenses cannot be reused and must be disposed of. Immediately seek qualified medical advice.
- Following ingestion : Never give anything by mouth to an unconscious person! Seek medical attention immediately. Don't induce vomiting. If the patient is conscious, rinse out mouth thoroughly and have the patient drink a glass of water.
- Self-protection of the first-aiders : No available information

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

: No available information.

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

: No specific antidote available. Treat symptomatically.

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media

: Carbon dioxide (CO₂); water spray; foam; dry chemical.

Unsuitable extinguishing media

: Not specified

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

: Gases emitted by combustion of organic materials must be qualified as respiratory poisons. They can be released in a fire. Nitrous gases (NO_x); Sulphur dioxide (SO₂).

5.3. Advice for firefighters

: Fire Extinguishing, rescue and clearing work under effect of combustible gases can only be done with a solid gas mask.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

For those staff which does not meet for emergency

: Keep unnecessary personnel away.

For the persons responsible for emergency

: Eliminate all ignition sources (flame or spark). Provide local and general exhaust ventilation. Use protective clothing and gloves, respiratory mask with an effective particulate filter, chemical goggles for eye protection.

6.2. Environmental precautions

: In case of accidental release take precautions to protect the surface and underground water, soil and sewage from contamination. Remove the sources of heat and flames. In case of spill into the sewage, surface water, ground water or soil notify the competent authorities immediately.

6.3. Methods and material for containment and cleaning up

For containment and cleaning	: Absorb with an inert material – sand, zeolite. Use vacuum cleaning. Do not dispose the product and/ or contaminated materials into the sewage systems, water sources or water bodies. Collect into an appropriate, labelled tightly sealed waste container. Store the container at an appropriate place for further treatment or disposal according to the national legislation.
Other information	: Not available
6.4. <u>Reference to other sections</u>	: The collected product and/ or contaminated materials should be treated as a waste according to section 13.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Precautionary measures	: Use process enclosures, local exhaust ventilation and other suitable engineering controls to keep airborne levels below recommended exposure limits.
Measures to prevent fire	: If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. (See section 8).
Measures to prevent aerosol and dust	: Regularly clean the premises and facilities wearing personal protective equipment and using professional fire-safe cleaning tools. Keep within the workspace only the quantities necessary for the normal working process. Containers/ packaging must not be left open. Dust may form explosive mixtures with air. All the areas where accumulation of dust in dangerously high concentrations may occur have to be indicated and provided with fire extinguishing systems/ tools. Keep away from sources of ignition (open flames, sparkles).
Measures for environmental protection	: Do not contaminate water with the product or its container (Do not clean application equipment near surface water/ Avoid contamination via drains from farmyards and roads).
Advice on general occupational hygiene	: Do not eat, drink or smoke when handling the product. In case of contamination change the work clothing. Avoid inhalation, ingestion and contact with eyes and skin. Do not handle this product without wearing the recommended personal protective clothing and equipment.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions	: Store in tightly closed containers, out of direct sunlight. Store in dry and cool place. Recommended storage temperature: 20 – 25 °C.
Packing materials	: Keep in unopened original packing.
Requirements for storage rooms and vessels	: Keep in cool, dry, well-ventilated place far from sources of ignition. Prevent static electricity generation. Do not allow accumulation of dust in significant concentrations. Keep out of reach of children.
Class of storage	: Not available
Additional information on storage conditions	: Keep away from: <ul style="list-style-type: none"> - medicinal products, food, forage, fertilizers and seed - hazardous infectious substances, radioactive substances, explosive substances - highly reactive oxidizing substances

7.3. Specific end use(s)

Recommendations	: See point 7.1, 7.2 and the label/ leaflet for relevant uses of this product.
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8. EXPOSURE CONTROL/ PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limit values in air according to national (Bulgarian) legislation

None established

Occupational exposure limit values in air according to EU legislation

None established

Consult the relevant national limit values currently applicable in the EU Member State/ Non-EU country in which this safety data sheet is being provided

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Structural, organizational and technical measures : Ensure adequate local and overall ventilation in the workplace.

8.2.2. Individual protection measures, such as personal protective equipment

Respiratory protection



: Use half mask with a particle filter FFP2 against solid particles and liquid aerosols.

Skin protection



: **In case of prolonged and repeated exposure**
Wear body-covering chemical resistant protective clothing.

Eye protection



: Use safety glasses with side shields (according to EN 166).

Hand protection



: **In case of short-term exposure:**
Single-use vinyl gloves.
In case of prolonged or frequently repeated exposure
Use of nitrile-rubber gloves for multiple use with accordance with EN 374. Thickness > 0.4 mm. If wearing up change the gloves.

Thermal hazards

: No available information

8.2.3. Environmental exposure controls

: Emissions from the ventilation system and working equipment should be checked for conformity with environment safety legislations.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

(a) Appearance

: Round beige granules of varying size, some granules almost reduced to dust. No signs of contamination were observed.

Method: Observation of colour, physical state, granule integrity, odour

Reference: Own GLP study – “Physical State, Odor and Color”

(b) Odor

: Odorless

Method: Observation of colour, physical state, granule integrity, odour

Reference: Own GLP study – “Physical State, Odor and Color”

(c) *Odor threshold* : Not available
(d) *pH* : 7.31 (1% solution)

Method: CIPAC MT 75.3

Reference: Own GLP study – “pH determination”

(e) *Melting point* : 141 °C

Method: OECD 102

Reference: Own GLP study – “Melting point”

(f) *Initial boiling point and boiling range* : Not applicable

(g) *Flash point* : No ignition

(h) *Evaporation rate* : Not available

(i) *Flammability (solid)* : Not flammable

Method: EEC A10

Reference: Own GLP study – “Flammability”

(j) *Upper lower flammability or explosive limits* : Not available
(k) *Vapor pressure* : Not applicable
(l) *Vapor density* : Not applicable
(m) *Density* : (Tap) 0.73 g/kg
(Pour) 0.72 g/kg

Method: CIAPC MT 169

Reference: Own GLP study – “Tap density”

(n) *Solubility(ies)* : Not available

(o) *Partition coefficient: n-octanol/water* : Log Pow= 0.39

Method: OECD 107

Reference: Own GLP study – “Partition coefficient n-octanol/ water”

(p) *Auto – ignition temperature* : No ignition
(q) *Decomposition temperature* : Not available
(r) *Viscosity* : Not applicable
(s) *Explosive properties* : No evidence of explosion risk

Method: DSC and Reasoned case/ EEC A14

Reference: Own GLP study – “Explosive properties”

(t) *Oxidizing properties* : No evidence of oxidation risk

Method: EEC A17

Reference: Own GLP study – “Oxidizing properties”

9.2. Other information

Corrosion : Not corrosive

10. STABILITY AND REACTIVITY

10.1. Reactivity : No hazardous reactions when stored and handled according to instructions.

10.2. Chemical stability : Stable under normal conditions.

10.3. Possibility of hazardous reactions : Not known

10.4. Conditions to avoid : Avoid storage at temperature > 35 °C in a confined place. Slowly decomposes in the presence of heat and moisture. To prevent thermal decomposition avoid heating of the material.

10.5. Incompatible materials : Avoid contact with strong oxidizing agents, acids, alkalis. Decomposes in alkaline and acidic environment.

10.6. Hazardous decomposition products : See section 5

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity effects based on own studies – Data on formulated product

Acute oral toxicity:

LD₅₀ (rats) = 5000 mg/kg bw => category 5, unclassified

Method: EC B.1 and OECD 423

Reference: Own GLP study "Acute oral toxicity "

Acute dermal toxicity:

LD₅₀ (rats) > 2000 mg/kg bw or unclassified

Method: EC B.3 and OECD 402

Reference: Own GLP study "Acute dermal toxicity"

Inhalation toxicity: No mortality was observed in the rats exposed to maximum achievable breathing zone concentration 1.082 mg of tribenuron-methyl 750 g/kg WDG/L air

Method: OECD 403

Reference: Own GLP study "Acute inhalation toxicity "

Skin corrosion/ irritation: Erythema (0.33) & odema (0.00) (*rabbits*); not classified as skin irritant

Method: OECD 404

Reference: Own GLP study "Acute dermal irritation/ corrosion"

Serious eye damage/ irritation: Not classified as an eye irritant

Method: OECD 405

Reference: Own GLP study "Acute eye irritation/ corrosion"

Respiratory or skin sensitization: Not considered as positive (*Guinea pigs*)

Method: OECD 406

Reference: Own GLP study "Skin sensitization"

Germ sell mutagenicity	: Not mutagenic activity
Carcinogenicity	: Not classified as carcinogenic
Reproductive toxicity	: Not classified as toxic for reproduction
STOT – single exposure	: Not available
STOT – repeated exposure	: Not available
Aspiration hazards	: Not available

12. ECOLOGICAL INFORMATION

12.1. Toxicity – Data on formulated product

Acute toxicity for aquatic organism

NOEC (*Rainbow trout*) = 63.8 mg/L

LOEC (*Rainbow trout*) = 89.3 mg/L

LC₅₀ (48h) (*Rainbow trout*) = 192.96 mg/L

LC₅₀ (96h) (*Rainbow trout*) = 143.13 mg/L

Method: EC C.1 and OECD 203

Reference: Own GLP study "Acute oral toxicity study"

EC₅₀ (*Daphnia magna*) > 100 mg/L

Method: EC C.2 and OECD 202

Reference: Own GLP study "Acute immobilisation study"

EC₅₀ (Algae, 0-72h) = 4.03 mg/L growth inhibition
EBC₅₀ (Algae) = 8.14 mg/L growth reduction
ErC₅₀ (Algae) = 8.14 mg/L
Method: EC C.3 and OECD 201
Reference: Own GLP study "Alga growth inhibition test"

Toxicity for birds (Japanese quail):
LD₅₀ > 2000 mg/kg bw
Method: OECD 223
Reference: Own GLP study "Acute oral toxicity"

Toxicity for bees – oral
The median oral lethal dose meets the specified range, LD₅₀ > 132.8 µg/bee (or 100 µg a.i./bee)
Method: EC C.8 and OECD 213
Reference: Own GLP study "Acute toxicity study"

Toxicity for bees – contact
The median contact lethal dose meets the specified range, LD₅₀ > 132.8 µg/bee (or 100 µg a.i./bee)
Method: EC C.8 and OECD 214
Reference: Own GLP study "Acute toxicity study – honey bees"

Toxicity for earthworms
NOEC = 5000 mg/kg artificial soil
14 day LC₅₀ > 5000 mg/kg artificial soil
Method: EC C.8 and OECD 207
Reference: Own GLP study "Acute toxicity study – earthworms"

- 12.2. Persistence and degradability** : Not available
12.3. Bioaccumulative potential : Not available
12.4. Mobility in soil : Prevent the penetration in the soil, hydrosphere and sewage.
12.5. Results of PBT and vPvB assessment : The product does not contain any PBT or vPvB substance
12.6. Other adverse effects : Not known
12.7. Additional information : Not available

13. DISPOSAL CONSIDERATIONS


- 13.1. Waste treatment methods** : **Disposal must be carried out** in accordance with the provisions of the national legislation, in an environmentally safe manner.
Recommended treatment method: burning in appropriately licensed incinerators.
Collection of small product quantities: Store in solid waste containers.
The container should be clearly labelled, with content description, danger indication symbols, H- and P-statements. Store in well ventilated areas, until deposit to a licensed waste disposal company. The water used for contaminated surface washing should be collected for further treatment.
Do not reuse the empty containers for any other purpose.
Do not dispose into the sewage. Do not pollute natural water sources. Remove washing waters by sprinkle treating part.
- Waste code** : 07 04 13* solid waste, containing dangerous substances
07 04 01* aqueous washing liquid and mother liquors

Waste code, packaging : 15 01 10* packaging containing residues of or contaminated by dangerous substances

14. TRANSPORT INFORMATION

14.1. General information

UN-No. (ADR) : 3077
UN proper shipping name : Environmentally hazardous substance, solid, n.o.s (contains Tribenuron-methyl)
Transport hazard class(es) : 9
Packing group : III
Environmental hazards : **Environmentally hazardous substance indication**
ADR/RID/ IMDG-Code/ ICAO-TI/ IATA-DGR: yes / no
Marine pollutant: yes / no

Marking : 

Special precautions for user : See sections 6-8

15. REGULATORY INFORMATION

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

EU Legislations:

EC Regulation 1107/2009 of the European Parliament and of the Council of 21 October 2009 concerning the placing of plant protection products and repealing Directives 79/117/EEC and 91/414/EEC
Applicable

REGULATION (EC) No 1272/2008 of the European parliament and of the Council of 16 December 2008 on classification, labelling and packing of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Applicable

REGULATION (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemical Agency, amending Directive 1999/45/EC and repealing Council regulation (EEC) No 793/93 and Commission regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.
No restrictions

DIRECTIVE 2012/18/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 on the control of major-accident hazards involving dangerous substances, amending and subsequently repealing Council Directive 96/82/EC

This product is classified under the Seveso III Directive

Seveso III Directive
E1: Hazardous to the aquatic environment – Acute and Chronic 1

National Legislation:

Ordinance on prevention of major accidents involving hazardous substances and limiting their consequences.

Applicable

Ordinance for authorization of plant protection products.

Applicable

Ordinance on procedures for labelling of plant protection products.

Applicable

15.2. Chemical safety assessment

: The chemical safety assessment has been carried out for the mixture

16. OTHER INFORMATION

(i) **Indication of changes**

The information in this safety data sheet was changed in the following sections:

2 – Hazard Identification

16 – Other information

(ii) **Abbreviation and acronyms**

None

(iii) **Key literature references and sources for data**

ECHA Guidance on the compilation of safety data sheets

(iv) **Classification and procedure used to derive the classification for mixtures to Regulation (EC) 1272/2008 [CLP]**

Classification according to Regulation (EC) № 1272/2008	Classification procedure
<i>Aquatic Acute 1; H400</i>	On basis of test data
<i>Aquatic Chronic 1; H410</i>	On basis of test data

(v) **Relevant H – statements (number and full text as referred to SECTION 3)**

According Regulation (EC) №1272/2008

Flam. Sol. 2 – Flammable solid, categories of danger 2; **H228** Flammable solid

Acute Tox. 4 – Acute toxicity, categories of danger 4; **H302** Harmful if swallowed

Acute Tox. 4 – Acute toxicity, categories of danger 4; **H332** Harmful if inhaled

Skin Irrit. 2 – Skin corrosion/ irritant, categories of danger 2; **H315** Causes skin irritation

Skin Sens. 1 – Skin sensitisation, categories of danger 1; **H317** May cause an allergic skin reaction

Eye Dam. 1 – Serious eye damage/ eye irritation, categories of danger 1; **H318** Causes serious eye damage

STOT SE 3 – Specific target organ toxicity (single exposure), categories of danger 3; **H335** May cause respiratory irritation

Aquatic Acute 1 – Hazardous to the aquatic environment, categories of danger 1; **H400** Very toxic to aquatic life

Aquatic Chronic 1 – Hazardous to the aquatic environment, categories of danger 1; **H410** Very toxic to aquatic life with long lasting effects

Aquatic Chronic 3 – Hazardous to the aquatic environment, categories of danger 3; **H412** Harmful to aquatic life with long lasting effects

(vi) **Training advice**

General occupational hygiene training recommended

(vii) **Further information**

THE INFORMATION PRESENTED IN THIS SAFETY DATA SHEET IS BASED ON OUR KNOWLEDGE OF THE PRODUCT AT THE DATE OF ISSUE AND IS INTENDED TO PROVIDE ONLY GENERAL HEALTH AND SAFETY GUIDANCE.

THIS SAFETY DATA SHEET COMPLEMENTS THE TECHNICAL SPECIFICATION/ LABEL/ LEAFLET OF THE PRODUCT BUT DOES NOT REPLACE THEM.

THE USERS OF THIS PRODUCT SHOULD MAKE THEIR OWN ASSESSMENT OF ITS SUITABILITY FOR THE INTENDED PURPOSES PRIOR TO USE.

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 OR OTHER AVAILABLE TECHNICAL USAGE LITERATURE.