

MATERIAL SAFETY DATA SHEET

compliant with requirements of the Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning REACH (OJ of the EU L 396), with later amendments

TRIBEN SUPER 50 SG

Compiled: 30.10.2018
Revised: 06.04.2020
Version: 1.1

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

1.1. Product identifier

TRIBEN SUPER 50 SG

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

A plant protection product – herbicide in the form of water-soluble granules. To be used by professional users. Use only in accordance with label-instruction of use.

1.3. Details of the supplier of the Safety Data Sheet

Manufacturer: INNIGO Sp. z o.o.
address: Al. Jerozolimskie 178, Warsaw, Poland
VAT Reg. No.: PL 557-16-98-060
phone: +48 22 468 26 70
e-mail: biuro@innigo.com
Person responsible for the Safety Data Sheet: RD@chemirol.com.pl

1.4. Emergency telephone number in Poland

Toxicological centers:

Gdańsk (58) 682 04 04 Kraków (12) 411 99 99 Lublin (81) 740 89 83 Łódź (42) 657 99 00	Poznań (61) 847 69 46 Rzeszów (17) 866 40 25 Sosnowiec (32) 266 11 45 Tarnów (14) 631 54 09	Warszawa (22) 619 66 54 Wrocław (71) 343 30 08
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Section 2. HAZARDS IDENTIFICATION

The product is classified as dangerous in accordance with applicable regulations.

2.1. Classification of the mixture

According to Directive CLP:

Skin Sens. 1 – H317
Aquatic. Acute 1, H400
Aquatic. Chronic 1, H410

2.2. Label elements

According to Directive CLP:



Warning

Risk phrases (H-phrases):

H317 – May cause an allergic skin reaction.
H410 – Very toxic to aquatic life with long lasting effects

Safety phrases (P-phrases):

P391 – Collect spillage.
P103 – Read label before use.
P273 – Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P332 + P313 - If skin irritation occurs: Get medical advice/ attention.

EUH401 – To avoid risks to human health and the environment, comply with the instructions for use.

2.3. Other hazards

Other hazards are not identified.

Section 3. COMPOSITION / INFORMATION ON INGREDIENTS**3.2. Mixture**

Ingredients hazardous to human health or the environment:

Chemical name	Index No.	CAS No.	EC No.	Content [% w/w]	CLP Classification
Tribenuron-methyl IUPAC: Methyl 2-[4-methoxy-6-methyl-1,3,5-triazin-2-yl(methyl)carbamoylsulfamoyl]benzoate	607-177-00-9	101200-48-0	401-190-1	50 %	Skin Sens. 1, H317 Aquatic Acute 1 H400 Aquatic Chronic 1 H410
EDTA-Na4	-	-	200-573-4	< 25 %	Acute Tox. 4 H302 Eye Irrit. 2 H319 Aquatic Chronic 3 H412
Sodium Carbonate	011-005-00-2	497-19-8	207-838-8	< 20 %	STOT SE 3 H335 Skin Irrit. 2 H315 Eye Dam. 1 H318

Symbol explanation and full phrasing of H-phrases is included in Section 16.

Section 4. FIRST AID MEASURES**4.1. Description of first aid measures**General recommendations:

Avoid contamination of skin, eyes and clothing. In case of exposure immediately remove all contaminated clothing. Take off contaminated clothing and wash before reuse. In case of accident or if you feel unwell seek medical advice immediately (show the label where possible).

Procedure in case of:

- inhalation: move the victim to fresh air. If necessary administer oxygen or apply artificial respiration. In the case of a stronger poisoning seek medical advice.
- skin contact: If skin irritation occurs: Get medical advice/attention.
- eye contact: wash immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists: Get medical advice/attention.
- ingestion: do not induce vomiting unless specifically advised by a doctor. Wash mouth with water. Do not administer anything orally if the victim is unconscious.

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

The product is characterized by low acute toxicity. There are no reported cases of poisoning with the product or the active substance. Repeated exposure may cause skin dryness or cracking.

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

Antidote: none.

Treat symptomatically.

Section 5. FIREFIGHTING MEASURESGeneral recommendations:

Remove from the area all unauthorized personnel and persons not participating in elimination of the fire. Eliminate sources of ignition, do not smoke. If necessary call the Fire Service.

5.1. Extinguishing mediaAppropriate media:

Foam, dry chemicals, carbon dioxide; if necessary use water spray.

Unsuitable media:

High-volume water jet.

5.2. Special hazards arising from the mixture

During fire dangerous gases may be evolved: carbon oxides (CO_x), nitrogen oxides (NO_x), hydrogen chloride gas. Exposure to products of combustion may be a health hazard. Do not breathe fumes, gases or vapor.

5.3. Advice for firefighters

Use full protective clothing and a self-contained breathing apparatus. Isolate the exposed area. Isolate the water used for

Section 5. FIREFIGHTING MEASURES

elimination of fire, do not allow it to enter sewers. Containers exposed to fire with water spray.

Section 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective measures – protective clothing, protective gloves. Avoid contact with skin, eyes and clothing.

6.2. Environmental precautions

Do not empty into drains. Do not allow the product to enter sewers, ditches or waterways. Use appropriate containment to avoid environmental contamination. In the case of environmental contamination notify the relevant services.

6.3. Methods and material for containment and cleaning up

Small spillage:

Collect immediately by vacuum and place in appropriate waste container.

Large spillage:

Avoid formation of dust. Isolate the spillage area. Collect with an electrically secured vacuum or wet sweep and place in appropriate waste container. For proper cleanup wash the spillage area with plenty of water.

6.4. Reference to other sections

Dispose of in accordance with recommendations listed in Section 13 of the Safety Data Sheet. During cleanup use personal protective measures as indicated in Section 8.

Section 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Follow the Occupational Safety and Health rules and regulations on handling chemicals. Use personal protective measures listed in Section 8. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Store only in original containers, tightly closed in a dry, well-ventilated place at temperature not lower than 0 °C and not exceeding 30 °C. Store in a place inaccessible to unauthorized personnel. Keep away from children and animals. Do not store with food, drink or animal foodstuffs. Store away from heat and hot surfaces.

7.3. Specific end use(s)

Strictly follow the label-instruction of use of the plant protection product.

Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Occupational Exposure Limits of mixture ingredients:

[Regulation of the Minister of Labor and Social Policy of 29 November 2002 concerning highest allowable concentrations and intensities of harmful agents in the work environment (J. of L. 2002 No. 217, item 1833) with later changes]

no recommendations

Occupational Exposure Limits of mixture ingredients recommended by the manufacturer:

Tribenuron methyl 8 h TWA: no recommendations

8.2. Exposure controls

Personal protective measures

- Eye / face protection: Tight-fitting goggles and face shield
- Skin protection: protective gloves recommended for handling chemicals
- Respiratory protection: no specific recommendations; avoid breathing vapor of the product or the prepared spray mixture; in case of insufficient ventilation wear breathing masks with appropriate filters or a self-contained breathing apparatus
- Thermal hazards: not present

Wash hands before every break and after work.

Work only in well-ventilated rooms.

Avoid contact with skin and eyes.

Environmental exposure controls

Do not empty into drains.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance:	cream-coloured cylindrical granules
Odor:	characteristic
Odor threshold:	not determined
pH of 1% aqueous solution:	9.50-10.5
Melting/Freezing point:	Melting point > 400°C
Initial boiling point and boiling range:	not applicable
Flash point:	No flash point up to melting point
Evaporation rate:	not determined
Flammability:	Not highly flammable
Upper/lower flammability or explosive limits:	not determined
Vapor pressure:	not determined
Vapor density:	not determined
Relative density:	Tap 0.57 g/mL
Solubility:	Dissolves in water
Partition coefficient: n-octanol/water:	not determined
Auto-ignition temperature:	No self-ignition up to 400°C
Decomposition temperature:	not determined
Viscosity:	Not applicable
Explosive properties:	non-explosive
Oxidizing properties:	non-oxidizing

9.2. Other information

No other information applicable.

Section 10. STABILITY AND REACTIVITY

10.1. Reactivity

No reactivity under normal handling and storage conditions.

10.2. Chemical stability

Stable under normal handling and storage conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions, including hazardous polymerization, do not take place.

10.4. Conditions to avoid

Avoid temperatures beyond the recommended storage range. Protect from direct sunlight.

10.5. Incompatible materials

To be used only in accordance with the label-instruction of use. Use in mixtures with products other than recommended is prohibited.

10.6. Hazardous decomposition products

Not determined. Hazardous products of thermal decomposition are described in Section 5.

Section 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Data concerning the mixture:

Acute toxicity:

- oral (rat): LD₅₀ > 2000 mg/kg b.w.
- dermal (rat): LD₅₀ > 2000 mg/kg b.w.

Irritation:

- eyes (rabbit): Does not irritate eye (according to Directive 1272/2008/WE)
- skin (rabbit): does not irritate skin (according to Directive 1272/2008/WE)

Sensitization:

- skin (guinea pig): skin sensitizer (in Magnusson & Kligman scale – Skin Sens. 1, H317)

Data concerning the components:

Acute inhalation toxicity (rat): (tribenuron methyl): LC₅₀/4h > 6.0 mg/l

Caustic effect: the product contains ingredients caustic.

Sensitization: the product contains ingredient identified sensitizing.

Carcinogenicity: product does not contain ingredients identified carcinogenic.

Mutagenicity: product does not contain ingredients identified mutagenic.

Reproductive toxicity: the product does not contain ingredients identified harmful effect on reproduction.

Operation target organ toxicity - single exposure:

It is unlikely that the product under normal conditions of use and handling of him, causing harmful effects.

Operation target organ toxicity - repeated exposure:

It is unlikely that the product under normal conditions of use and handling of him, causing harmful effects.

Information on likely routes of exposure - WARNING! The product is not fully explored!

Skin contact : may cause irritation, skin sensitization

Skin absorption: may be harmful if absorbed through the skin

Eye contact: may cause irritation of the eyes

Inhalation: may be irritating to mucous membranes and upper respiratory tract

Ingestion: may be harmful if swallowed

Section 12. ECOLOGICAL INFORMATION

12.1. ToxicityData concerning the mixture:

Toxicity for water organisms:

- | | |
|---|---|
| - fish (<i>Rainbow trout</i>) : | LC ₅₀ /96 h > 100 mg/L |
| - daphnia (<i>Daphnia magna</i> Straus): | EC ₅₀ /48 h > 100 mg/L |
| - algae (<i>Pseudokirchneriella subcapitata</i> Reinch): | E _r C ₅₀ /72 h > 0.1 mg/L |
| - | |

Toxicity for honeybees (*Apis mellifera* L.):

- | | |
|------------|-------------------------------|
| - oral: | LD ₅₀ > 200 µg/bee |
| - contact: | LD ₅₀ > 200 µg/bee |

Toxicity for earthworm (*Eisenia fetida* Savigny):

LC₅₀ > 1000 mg/kg d.s.

12.2. Persistence and degradability

Tribenuron methyl – DT_{50 field} = 10 d - not persistent in soil

12.3. Bioaccumulative potential

Tribenuron methyl BCF = not determined; log P_{ow} < 3

12.4. Mobility in soil

Tribenuron methyl: K_{oc} = 9.8-74 ml/g – high mobility in soil

12.5. Results of PBT and vPvB assessment

None of the mixture ingredients is included in the ECHA candidate list of PBT or vPvB substances.

12.6. Other adverse effects

Information pointing to other adverse effects of use of the mixture is not available.

Section 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methodsDisposal of product waste:

Do not empty into drains. Do not contaminate surface waters (ponds, water ways, ditches). Dispose of as hazardous material.

European Waste Code: 02 01 08 Agrochemical waste containing dangerous substances, including plant protection products of I and II toxicity class (very toxic and toxic).

Disposal of containers:

Triple rinse empty product containers and place the rinsate in the spray tank. Do not re-use empty containers for any purpose, including recycling. Return empty product containers to the product supplier. Dispose of as hazardous material.

Section 14. TRANSPORT INFORMATION

Land transport ADR/RID:

14.1. UN number: UN 3077.

According to special provision 375 of Chapter 3.3.1 of the ADR, the carriage of goods in unit packages containing no more than 5 liters of material, delivered individually or in packagings of combined packaging, is not subject to any other ADR regulation provided that the packaging complies with the requirements of 4.1. .1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 ADR.

14.2. UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains TRIBENURON-METHYL 50 %).

14.3. Transport hazard class(es): 9/M7

14.4. Packaging group: III.

14.5. Environmental hazards: identifying number 90.

14.6. Special precautions for user: special provisions apply. 5.2.1.8 and 5.3.6

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable.

Section 15. REGULATORY INFORMATION

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

Legislation:

- REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals 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 (OJ of the EU L 396), with later changes
- REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (OJ of the EU L 353), with later changes
- DIRECTIVE 1999/45/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 May 1999 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labeling of dangerous preparations (OJ of the EU L 200), with later changes
- BILL on chemical substances and mixtures (J. of L. 2011 No. 63, item 322), with later changes
- The European AGREEMENT concerning the International Carriage of Dangerous Goods by Road (ADR), version in force since 01.01.2011
- ORDINANCE of the Minister of Economy, Labor and Social Policy No. 1 of 12.02.2003 regarding ADR; ORDINANCE of the Minister of Economy and Labor No. 8 of 21.07.2004 regarding RID
- REGULATION of the Minister of Labor and Social Policy of 29 November 2002 concerning highest allowable concentrations and intensities of harmful agents in the work environment (J. of L. 2002 No. 217, item 1833) with later changes
- BILL of 11 May 2001 on packaging and packaging waste (J. of L. 2001 No. 63, item 638), with later changes
- REGULATION of the Minister of Environment of 27 September 2001 concerning waste catalogue (J. of L. 2001 No. 112, item 1206), with later changes
- REGULATION of the Minister of Labor and Social Policy of 31 May 2003 concerning basic requirements for personal protective equipment (J. of L. 2003 No. 80, item 725), with later changes
- REGULATION of the Minister of Labor and Social Policy of 26 September 1997 concerning general regulations on occupational safety and health (J. of L. 1997 No. 129, item 844), with later changes
- REGULATION (EC) No 1107/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 21 October 2009 concerning the placing of plant protection products on the market and repealing Council Directives 79/117/EEC and 91/414/EEC

15.2. Chemical safety assessment

It is not required.

Section 16. OTHER INFORMATION

Changes introduced at revision of the Safety Data Sheet:

classification according to CLP.

Sources of data for preparation of the Safety Data Sheet:

This document is prepared according to results of manufacturer's own studies, as well as based on information supplied by manufacturers of ingredients of the formulation and data on ingredients of the formulation available at EU level.

Symbols and H-phrases used in Section 3 and not included in Section 2:

H410 – Very toxic to aquatic life with long lasting effects.

H400 – Very toxic to aquatic life.

H302 – Harmful if swallowed.

Other abbreviations and acronyms:

Section 16. OTHER INFORMATION

Aquatic Chronic – chronic risk to aquatic environment
Acute Tox. – acute toxicity
Aquatic Acute – acute risk to aquatic environment
Eye Irrit. – irritating effect to eyes
Skin Irrit. – irritating to skin
Eye dam. – causes serious eye damage
Asp.Tox. – Aspiration toxicity
Skin Sens. – Skin sensitisation
STOT SE. – specific target organ toxicity – single exposure

DT50 - period required for 50 percent disappearance (define method of estimation)
ER50 - emergence rate/effective rate, median
ErC50 - effective concentration (growth rate)
EC50 - effective concentration
CAS - Chemical Abstract Service
BCF - bioconcentration factor
AOEL - acceptable operator exposure level
a.s. - active substance
bw - body weight
LC50 - lethal concentration, median

Data included in this Safety Data Sheet is based on current knowledge and applies to the product in its formulation of use. This information is intended exclusively as guidance on safe handling, transport, use, storage and waste disposal and is not to be identified with a warranty or a quality certificate. The user is responsible for consequences resulting from inadequate use of information presented in this Safety Data Sheet or from inappropriate use of this product.