

Safety Information Sheet

(according to the last version of the Reg. (EC) 1907/2006 – art. 32)

RADICAL TOP

Safety Information Sheet dated 20/8/2025, version 1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1. Product identifier
 - Mixture identification: inoculum of endomycorrhizal fungi
 - Trade name: RADICAL TOP
- 1.2. Relevant identified uses of the substance or mixture and uses advised against
 - Recommended use:
 - Fertilizer
- 1.3. Details of the supplier of the safety data sheet
 - Company:
 - SPECIALAGRI S.R.L. - Via Veneto 8 - Cologna Veneta (VR) - Italy
 - Tel. +39 0442 412833
 - Competent person responsible for the safety data sheet:
 - E-mail: info@specialagri.it
- 1.4. Emergency telephone number
 - EUROPEAN EMERGENCY NUMBER h 24/24: 112

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture
 - EC regulation criteria 1272/2008 (CLP)
 - The product is not classified as hazardous according to Regulation EC 1272/2008 (CLP).
 - Adverse physicochemical, human health and environmental effects: No other hazards
- 2.2. Label elements
 - The product is not classified as hazardous according to Regulation EC 1272/2008 (CLP).
 - Hazard pictograms: None
 - Hazard statements: None
 - Precautionary statements: None
 - Special Provisions: None
 - Special provisions according to Annex XVII of REACH and subsequent amendments: None
- 2.3. Other hazards
 - No PBT, vPvB or endocrine disruptor substances present in concentration $\geq 0.1\%$
 - Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

- 3.1. Substances: N.A.
- 3.2. Mixtures
 - The product consists of inoculum of endomycorrhizal fungi, bacteria authorised pursuant to point 1.9.6 of Part I of Annex II to Regulation (EU) 2018/848, soil improvers produced with wood not chemically treated after felling, sorghum roots.
 - All constituents are exempt from REACH registration as they are naturally occurring substances not chemically modified, according to Article 2(7)(b) of Reg. (EC) 1907/2006 (REACH) – Annex V.

SECTION 4: First aid measures

- 4.1. Description of first aid measures
 - In case of skin contact: Wash with plenty of water and soap.
 - In case of eyes contact:
 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 - In case of Ingestion:
 - Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.
 - In case of Inhalation: Remove casualty to fresh air and keep warm and at rest.
- 4.2. Most important symptoms and effects, both acute and delayed: None
- 4.3. Indication of any immediate medical attention and special treatment needed
 - Treatment: None

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SECTION 5: Firefighting measures

- 5.1. Extinguishing media
 - Suitable extinguishing media: Water. Carbon dioxide (CO₂).
 - Extinguishing media which must not be used for safety reasons:
None in particular.
- 5.2. Special hazards arising from the substance or mixture
 - Do not inhale explosion and combustion gases.
 - Burning produces heavy smoke.
- 5.3. Advice for firefighters
 - Use suitable breathing apparatus .
 - Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
 - Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures
 - For non emergency personnel:
 - Wear personal protection equipment.
 - Remove persons to safety.
 - See protective measures under point 7 and 8.
 - For emergency responders: Wear personal protection equipment.
- 6.2. Environmental precautions
 - Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
 - Retain contaminated washing water and dispose it.
 - In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
 - Suitable material for taking up: absorbing material, organic, sand
- 6.3. Methods and material for containment and cleaning up: Wash with plenty of water.
- 6.4. Reference to other sections: See also section 8 and 13

SECTION 7: Handling and storage

- 7.1. Precautions for safe handling
 - Avoid contact with skin and eyes, inhalation of vapours and mists.
 - See also section 8 for recommended protective equipment.
 - Advice on general occupational hygiene:
 - Do not eat or drink while working.
- 7.2. Conditions for safe storage, including any incompatibilities
 - Keep away from food, drink and feed.
 - Incompatible materials: None in particular.
 - Instructions as regards storage premises: Adequately ventilated premises.
- 7.3. Specific end use(s): None in particular

SECTION 8: Exposure controls/personal protection

- 8.1. Control parameters
 - No occupational exposure limit available
 - DNEL Exposure Limit Values: N.A.
 - PNEC Exposure Limit Values : N.A.
- 8.2. Exposure controls
 - Eye protection: Not needed for normal use. Anyway, operate according good working practices.
 - Protection for skin: No special precaution must be adopted for normal use.
 - Protection for hands: Not needed for normal use.
 - Respiratory protection: Not needed for normal use.
 - Thermal Hazards: None
 - Environmental exposure controls: None
 - Appropriate engineering controls: None

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes
Physical state:	Liquid	--	--
Colour:	Dark	--	--
Odour:	Typical	--	--
Melting point/freezing point:	Not Relevant	--	--
Boiling point or initial boiling point and boiling range:	Not Relevant	--	--
Flammability:	Non-flammable	--	--
Lower and upper explosion limit:	Not Relevant	--	--
Flash point:	Not Relevant	--	--
Auto-ignition temperature:	Not Relevant	--	--
Decomposition temperature:	N.A.	--	--
pH:	5 - 7	--	--
Kinematic viscosity:	Not Relevant	--	--
Solubility in water:	N.A.	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient n-octanol/water (log value):	N.A.	--	--
Vapour pressure:	Not Relevant	--	--
Density and/or relative density:	1.0 kg/l	--	--
Relative vapour density:	Not Relevant	--	--

Particle characteristics:

Particle size:	N.A.	--	--
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9.2. Other information

Properties	Value	Method:	Notes
Miscibility:	miscible in water	--	--

SECTION 10: Stability and reactivity

- 10.1. Reactivity: Stable under normal conditions
- 10.2. Chemical stability: Stable under normal conditions
- 10.3. Possibility of hazardous reactions: None
- 10.4. Conditions to avoid: Stable under normal conditions.
- 10.5. Incompatible materials: None in particular.
- 10.6. Hazardous decomposition products: None.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological information of the product:

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a) acute toxicity

Not classified

Based on available data, the classification criteria are not met

b) skin corrosion/irritation

Not classified

Based on available data, the classification criteria are not met

c) serious eye damage/irritation

Not classified

Based on available data, the classification criteria are not met

d) respiratory or skin sensitisation

Not classified

Based on available data, the classification criteria are not met

e) germ cell mutagenicity

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- Not classified
 - Based on available data, the classification criteria are not met
 - f) carcinogenicity
 - Not classified
 - Based on available data, the classification criteria are not met
 - g) reproductive toxicity
 - Not classified
 - Based on available data, the classification criteria are not met
 - h) STOT-single exposure
 - Not classified
 - Based on available data, the classification criteria are not met
 - i) STOT-repeated exposure
 - Not classified
 - Based on available data, the classification criteria are not met
 - j) aspiration hazard
 - Not classified
 - Based on available data, the classification criteria are not met
- Toxicological information of the main substances found in the product: N.A.
- 11.2. Information on other hazards
- Endocrine disrupting properties:
- No endocrine disruptor substances present in concentration $\geq 0.1\%$

SECTION 12: Ecological information

- 12.1. Toxicity
- Adopt good working practices, so that the product is not released into the environment.
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- Not classified for environmental hazards
- Based on available data, the classification criteria are not met
- 12.2. Persistence and degradability: N.A.
- 12.3. Bioaccumulative potential: N.A.
- 12.4. Mobility in soil: N.A.
- 12.5. Results of PBT and vPvB assessment
- vPvB Substances: None - PBT Substances: None
- 12.6. Endocrine disrupting properties
- No endocrine disruptor substances present in concentration $\geq 0.1\%$
- 12.7. Other adverse effects: None

SECTION 13: Disposal considerations

- 13.1. Waste treatment methods
- Recover if possible. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information

- 14.1. UN number or ID number: Not classified as dangerous in the meaning of transport regulations.
- 14.2. UN proper shipping name: N.A.
- 14.3. Transport hazard class(es): N.A.
- 14.4. Packing group: N.A.
- 14.5. Environmental hazards
- | | |
|------------------------------|----|
| ADR-Environmental Pollutant: | No |
| IMDG-Marine pollutant: | No |
- 14.6. Special precautions for user: N.A.
- 14.7. Maritime transport in bulk according to IMO instruments: N.A.

SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
- Dir. 98/24/EC (Risks related to chemical agents at work)
- Dir. 2000/39/EC (Occupational exposure limit values)

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Regulation (EC) n. 1907/2006 (REACH) consolidated

Regulation (EC) n. 1272/2008 (CLP) consolidated

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

No restriction.

Sanitary checks.

Workers exposed to this hazardous chemical agent must be subjected to health surveillance carried out in accordance with the provisions of art. 41 of Legislative Decree 81 of 9 April 2008 unless the risk to the safety and health of the worker has been assessed as irrelevant, in accordance with the provisions of art. 224 paragraph 2.

Where applicable, refer to the following regulatory provisions :

Regulation (EU) 2019/1148 (explosives precursors)

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1: None

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,
Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van
Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.

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STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.