

TENDOVO HERBICIDE

Version 1.0 Revision Date: 01/13/2022 SDS Number: S00051377745 This version replaces all previous versions.

SECTION 1. IDENTIFICATION

Product name : TENDOVO HERBICIDE
Design code. : A23372A
Product Registration number : 100-1684

Manufacturer or supplier's details

Company name of supplier : Syngenta Crop Protection, LLC
Address : Post Office Box 18300
Greensboro NC 27419
United States of America (USA)

Telephone : 1 800 334 9481
Telefax : 1 336 632 2192

E-mail address : sds.requests@syngenta.com

Emergency telephone : 1 800 888 8372

Recommended use of the chemical and restrictions on use

Recommended use : Herbicide
Restrictions on use : General Use Pesticide

SECTION 2. HAZARDS IDENTIFICATION**GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Skin sensitization : Sub-category 1B

GHS label elements

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H317 May cause an allergic skin reaction.

Precautionary Statements : **Prevention:**
P261 Avoid breathing mist or vapors.
P272 Contaminated work clothing must not be allowed out of the workplace.
P280 Wear protective gloves.

TENDOVO HERBICIDE

Version 1.0 Revision Date: 01/13/2022 SDS Number: S00051377745 This version replaces all previous versions.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
 P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
 P363 Wash contaminated clothing before reuse.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
S-metolachlor	87392-12-9	38.4449
metribuzin	21087-64-9	7.1536
alcohols, C12-15,ethoxylated	68131-39-5	$\geq 1 - < 5$
Residues (petroleum), catalytic re-former fractionator, sulfonated, polymers with formaldehyde, sodium salts	68425-94-5	$\geq 1 - < 5$
propane-1,2-diol	57-55-6	$\geq 1 - < 5$
cloransulam-methyl	147150-35-4	41.7425
5-chloro-2-methyl-1,2-thiazol-3-one; 2-methyl-1,2-thiazol-3-one	55965-84-9	$\geq 0.0015 - < 0.1$

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

- General advice : Have the product container, label or Safety Data Sheet with you when calling the emergency number, a poison control center or physician, or going for treatment.
- If inhaled : Take the victim into fresh air.
 If breathing is irregular or stopped, administer artificial respiration.
 Keep patient warm and at rest.
 Call a physician or poison control center immediately.
- In case of skin contact : Take off all contaminated clothing immediately.
 Wash off immediately with plenty of water.
 If skin irritation persists, call a physician.
 Wash contaminated clothing before re-use.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
 Remove contact lenses.
 Immediate medical attention is required.
- If swallowed : If swallowed, seek medical advice immediately and show this

TENDOVO HERBICIDE

Version 1.0 Revision Date: 01/13/2022 SDS Number: S00051377745 This version replaces all previous versions.

Most important symptoms and effects, both acute and delayed : container or label.
Do NOT induce vomiting.
Nonspecific
No symptoms known or expected.

Notes to physician : There is no specific antidote available.
Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Extinguishing media - small fires
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Extinguishing media - large fires
Alcohol-resistant foam
or
Water spray

Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

Specific hazards during fire fighting : As the product contains combustible organic ingredients, fire will produce dense black smoke containing hazardous products of combustion (see section 10).
Exposure to decomposition products may be a hazard to health.

Further information : Do not allow run-off from fire fighting to enter drains or water courses.
Cool closed containers exposed to fire with water spray.

Special protective equipment for fire-fighters : Wear full protective clothing and self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Prevent further leakage or spillage if safe to do so.
Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
Clean contaminated surface thoroughly.
Clean with detergents. Avoid solvents.
Retain and dispose of contaminated wash water.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : No special protective measures against fire required.

TENDOVO HERBICIDE

Version 1.0 Revision Date: 01/13/2022 SDS Number: S00051377745 This version replaces all previous versions.

Conditions for safe storage : Avoid contact with skin and eyes.
When using do not eat, drink or smoke.
For personal protection see section 8.
No special storage conditions required.
Keep containers tightly closed in a dry, cool and well-ventilated place.
Keep out of the reach of children.
Keep away from food, drink and animal feedingstuffs.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
S-metolachlor	87392-12-9	TWA	5 mg/m ³	Syngenta
metribuzin	21087-64-9	TWA	0.56 mg/m ³	Supplier
		TWA	5 mg/m ³	ACGIH
		TWA	5 mg/m ³	NIOSH REL
		TWA	5 mg/m ³	OSHA P0
propane-1,2-diol	57-55-6	TWA	10 mg/m ³	US WEEL

Engineering measures : THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THE PRODUCT. FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated.
The extent of these protection measures depends on the actual risks in use.
Maintain air concentrations below occupational exposure standards.
Where necessary, seek additional occupational hygiene advice.

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection

Remarks : Wear protective gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The break

TENDOVO HERBICIDE

Version 1.0	Revision Date: 01/13/2022	SDS Number: S00051377745	This version replaces all previous versions.
----------------	------------------------------	-----------------------------	--

Eye protection	:	through time depends amongst other things from the material, the thickness and the type of glove and therefore has to be measured for each case. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Skin and body protection	:	No special protective equipment required. Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Remove and wash contaminated clothing before re-use. Wear as appropriate: Impervious clothing
Protective measures	:	The use of technical measures should always have priority over the use of personal protective equipment. When selecting personal protective equipment, seek appropriate professional advice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	light brown
Odor	:	musty
Odor Threshold	:	No data available
pH	:	6.57 Concentration: 1 % w/v
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	Method: Seta closed cup does not flash
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Density	:	1,085 g/cm ³ (68 °F / 20 °C)

TENDOVO HERBICIDE

Version 1.0	Revision Date: 01/13/2022	SDS Number: S00051377745	This version replaces all previous versions.
----------------	------------------------------	-----------------------------	--

Solubility(ies)	
Water solubility	: No data available
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Autoignition temperature	: 871 °F / 466 °C
Decomposition temperature	: No data available
Viscosity	
Viscosity, dynamic	: 705 mPa.s (68 °F / 20 °C)
Viscosity, kinematic	: No data available
Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Particle size	: No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: None reasonably foreseeable.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: No decomposition if used as directed.
Incompatible materials	: None known.
Hazardous decomposition products	: No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

Ingestion
Inhalation
Skin contact
Eye contact

Acute toxicity**Product:**

Acute oral toxicity	: LD50 (Rat, female): > 2,000 mg/kg Assessment: The substance or mixture has no acute oral toxicity
Acute inhalation toxicity	: LC50 (Rat, male and female): > 5.19 mg/l Exposure time: 4 h Test atmosphere: dust/mist

TENDOVO HERBICIDEVersion
1.0Revision Date:
01/13/2022SDS Number:
S00051377745

This version replaces all previous versions.

Assessment: The substance or mixture has no acute inhalation toxicity

Components:**S-metolachlor:**

- Acute oral toxicity : LD50 (Rat, male and female): 2,672 mg/kg
- Acute inhalation toxicity : LC50 (Rat, male and female): > 2.91 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: The substance or mixture has no acute inhalation toxicity
- Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

metribuzin:

- Acute oral toxicity : LD50 (Rat, female): 322 mg/kg
- Acute inhalation toxicity : LC50 (Rat): 0.709 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
- Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg

alcohols, C12-15,ethoxylated:

- Acute oral toxicity : LD50 (Rat): 1,000 - 2,000 mg/kg
Remarks: Information given is based on data obtained from similar substances.

cloransulam-methyl:

- Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
- Acute inhalation toxicity : LC50 (Rat, male and female): > 3.77 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: The substance or mixture has no acute inhalation toxicity
- Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

5-chloro-2-methyl-1,2-thiazol-3-one; 2-methyl-1,2-thiazol-3-one:

- Acute oral toxicity : Assessment: The component/mixture is toxic after single ingestion.
- Acute inhalation toxicity : Assessment: The component/mixture is highly toxic after short

TENDOVO HERBICIDE

Version 1.0	Revision Date: 01/13/2022	SDS Number: S00051377745	This version replaces all previous versions.
----------------	------------------------------	-----------------------------	--

term inhalation.

Acute dermal toxicity : Assessment: The component/mixture is highly toxic after single contact with skin.

Skin corrosion/irritation**Product:**

Species : Rabbit
Result : No skin irritation

Components:**S-metolachlor:**

Species : Rabbit
Result : No skin irritation

metribuzin:

Species : Rabbit
Result : No skin irritation

Residues (petroleum), catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts:

Method : in vitro skin corrosion test
Result : Irritating to skin.

5-chloro-2-methyl-1,2-thiazol-3-one; 2-methyl-1,2-thiazol-3-one:

Result : Corrosive after 1 to 4 hours of exposure

Serious eye damage/eye irritation**Product:**

Species : Rabbit
Result : No eye irritation

Components:**S-metolachlor:**

Species : Rabbit
Result : No eye irritation

metribuzin:

Species : Rabbit
Result : No eye irritation

alcohols, C12-15,ethoxylated:

Species : Rabbit

TENDOVO HERBICIDE

Version 1.0	Revision Date: 01/13/2022	SDS Number: S00051377745	This version replaces all previous versions.
----------------	------------------------------	-----------------------------	--

Result	: Risk of serious damage to eyes.
Remarks	: Information given is based on data obtained from similar substances.

Residues (petroleum), catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts:

Result	: Risk of serious damage to eyes.
Method	: in vitro eye irritation test

Respiratory or skin sensitization**Product:**

Test Type	: Local lymph node assay (LLNA)
Species	: Mouse
Result	: The product is a skin sensitizer, sub-category 1B.

Components:**S-metolachlor:**

Species	: Guinea pig
Result	: The product is a skin sensitizer, sub-category 1B.

metribuzin:

Species	: Guinea pig
Result	: Did not cause sensitization on laboratory animals.

cloransulam-methyl:

Species	: Guinea pig
Result	: Did not cause sensitization on laboratory animals.

5-chloro-2-methyl-1,2-thiazol-3-one; 2-methyl-1,2-thiazol-3-one:

Result	: The product is a skin sensitizer, sub-category 1A.
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Germ cell mutagenicity**Components:****S-metolachlor:**

Germ cell mutagenicity - Assessment	: Animal testing did not show any mutagenic effects.
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metribuzin:

Germ cell mutagenicity - Assessment	: Animal testing did not show any mutagenic effects.
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cloransulam-methyl:

Germ cell mutagenicity - Assessment	: Animal testing did not show any mutagenic effects., In vitro tests did not show mutagenic effects
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TENDOVO HERBICIDE

Version 1.0	Revision Date: 01/13/2022	SDS Number: S00051377745	This version replaces all previous versions.
----------------	------------------------------	-----------------------------	--

Carcinogenicity**Components:****S-metolachlor:**

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

metribuzin:

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

cloransulam-methyl:

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

Reproductive toxicity**Components:****S-metolachlor:**

Reproductive toxicity - Assessment : Animal testing did not show any effects on fertility.

metribuzin:

Reproductive toxicity - Assessment : No toxicity to reproduction

cloransulam-methyl:

Reproductive toxicity - Assessment : No toxicity to reproduction

STOT-repeated exposure**Components:****metribuzin:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity**Components:****S-metolachlor:**

Remarks : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:****S-metolachlor:**

TENDOVO HERBICIDE

Version 1.0 Revision Date: 01/13/2022 SDS Number: S00051377745 This version replaces all previous versions.

- | | | |
|--|---|--|
| Toxicity to fish | : | LC50 (Oncorhynchus mykiss (rainbow trout)): 1.23 mg/l
Exposure time: 96 h |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Americamysis): 1.4 mg/l
Exposure time: 96 h |
| Toxicity to algae/aquatic plants | : | ErC50 (Raphidocelis subcapitata (freshwater green alga)): 0.077 mg/l
Exposure time: 96 h

NOEC (Raphidocelis subcapitata (freshwater green alga)): 0.016 mg/l
End point: Growth rate
Exposure time: 96 h

EC50 (Lemna gibba (gibbous duckweed)): 0.023 mg/l
Exposure time: 14 d

NOEC (Lemna gibba (gibbous duckweed)): 0.0076 mg/l
Exposure time: 14 d |
| M-Factor (Acute aquatic toxicity) | : | 10 |
| Toxicity to fish (Chronic toxicity) | : | NOEC (Pimephales promelas (fathead minnow)): 0.03 mg/l
Exposure time: 35 d |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC (Americamysis): 0.13 mg/l
Exposure time: 28 d |
| M-Factor (Chronic aquatic toxicity) | : | 10 |
| metribuzin: | | |
| Toxicity to fish | : | LC50 (Oncorhynchus mykiss (rainbow trout)): 74.6 mg/l
Exposure time: 96 h |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 49.6 mg/l
Exposure time: 48 h |
| Toxicity to algae/aquatic plants | : | ErC50 (Desmodesmus subspicatus (green algae)): 0.022 mg/l
Exposure time: 72 h |
| cloransulam-methyl: | | |
| Toxicity to fish | : | LC50 (Pimephales promelas (fathead minnow)): > 32.4 mg/l
Exposure time: 96 h |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): > 40 mg/l
Exposure time: 48 h |
| Toxicity to algae/aquatic plants | : | IC50 (Lemna gibba (gibbous duckweed)): 0.00156 mg/l
End point: Growth rate
Exposure time: 7 d |

TENDOVO HERBICIDE

Version 1.0 Revision Date: 01/13/2022 SDS Number: S00051377745 This version replaces all previous versions.

Toxicity to fish (Chronic toxicity) : NOEC (Pimephales promelas (fathead minnow)): 10.1 mg/l
Exposure time: 33 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 17.3 mg/l
Exposure time: 21 d

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

5-chloro-2-methyl-1,2-thiazol-3-one; 2-methyl-1,2-thiazol-3-one:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.22 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia): 0.1 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (Raphidocelis subcapitata (freshwater green alga)): 0.048 mg/l
Exposure time: 72 h

NOEC (Raphidocelis subcapitata (freshwater green alga)): 0.0012 mg/l
End point: Growth rate
Exposure time: 72 h

ErC50 (Skeletonema costatum (marine diatom)): 0.0052 mg/l
Exposure time: 48 h

NOEC (Skeletonema costatum (marine diatom)): 0.00064 mg/l
End point: Growth rate
Exposure time: 48 h

M-Factor (Acute aquatic toxicity) : 100

Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): 0.098 mg/l
Exposure time: 28 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia): 0.004 mg/l
Exposure time: 21 d

M-Factor (Chronic aquatic toxicity) : 10

Persistence and degradability

Components:

S-metolachlor:

Biodegradability : Result: Not readily biodegradable.

Stability in water : Degradation half life: 53 - 147 d

TENDOVO HERBICIDE

Version 1.0	Revision Date: 01/13/2022	SDS Number: S00051377745	This version replaces all previous versions.
----------------	------------------------------	-----------------------------	--

Remarks: Product is not persistent.

metribuzin:

Biodegradability : Result: Not readily biodegradable.

Residues (petroleum), catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts:

Biodegradability : Result: Not readily biodegradable.

cloransulam-methyl:

Biodegradability : Result: Not readily biodegradable.

Stability in water : Degradation half life: 34 d
Remarks: Product is not persistent.**5-chloro-2-methyl-1,2-thiazol-3-one; 2-methyl-1,2-thiazol-3-one:**

Biodegradability : Result: Readily biodegradable.

Bioaccumulative potential**Components:****S-metolachlor:**

Bioaccumulation : Remarks: Does not bioaccumulate.

Partition coefficient: n-octanol/water : log Pow: 3.05 (77 °F / 25 °C)

metribuzin:

Bioaccumulation : Remarks: Does not bioaccumulate.

cloransulam-methyl:

Bioaccumulation : Remarks: Low bioaccumulation potential.

Partition coefficient: n-octanol/water : log Pow: 1.12

Mobility in soil**Components:****S-metolachlor:**

Distribution among environmental compartments : Remarks: Moderately mobile in soils

Stability in soil : Dissipation time: 12 - 46 d
Percentage dissipation: 50 % (DT50)
Remarks: Product is not persistent.**metribuzin:**

Distribution among environmental compartments : Remarks: Highly mobile in soils

TENDOVO HERBICIDE

Version 1.0	Revision Date: 01/13/2022	SDS Number: S00051377745	This version replaces all previous versions.
----------------	------------------------------	-----------------------------	--

mental compartments

Stability in soil : Dissipation time: 30 - 60 d
Percentage dissipation: 50% (DT50)

cloransulam-methyl:

Distribution among environmental compartments : Remarks: Very highly mobile in soil.

Other adverse effects**Components:****metribuzin:**

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : Do not contaminate ponds, waterways or ditches with chemical or used container.
Do not dispose of waste into sewer.
Where possible recycling is preferred to disposal or incineration.
If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging : Empty remaining contents.
Triple rinse containers.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION**International Regulations****UNRTDG**

UN number : UN 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(S-METOLACHLOR AND METRIBUZIN)

Class : 9
Packing group : III
Labels : 9

IATA-DGR

UN/ID No. : UN 3082
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.
(S-METOLACHLOR AND METRIBUZIN)

Class : 9
Packing group : III
Labels : Miscellaneous

TENDOVO HERBICIDE

Version 1.0	Revision Date: 01/13/2022	SDS Number: S00051377745	This version replaces all previous versions.
----------------	------------------------------	-----------------------------	--

Packing instruction (cargo aircraft) : 964

Packing instruction (passenger aircraft) : 964

Environmentally hazardous : yes

IMDG-Code

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(S-METOLACHLOR AND METRIBUZIN)

Class : 9

Packing group : III

Labels : 9

EmS Code : F-A, S-F

Marine pollutant : yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation**49 CFR**

Not regulated as a dangerous good

Remarks : Shipment by ground under DOT is non-regulated; however it may be shipped per the applicable hazard classification to facilitate multi-modal transport involving ICAO (IATA) or IMO.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Caution

Causes moderate eye irritation.

Harmful if swallowed.

Harmful if absorbed through skin.

Avoid contact with skin, eyes or clothing.

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Remove and wash contaminated clothing before re-use.

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

CERCLA Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

TENDOVO HERBICIDE

Version 1.0 Revision Date: 01/13/2022 SDS Number: S00051377745 This version replaces all previous versions.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Respiratory or skin sensitization

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

metribuzin 21087-64-9 $\geq 5 - < 10 \%$

The ingredients of this product are reported in the following inventories:

TSCA : On or in compliance with the active portion of the TSCA inventory

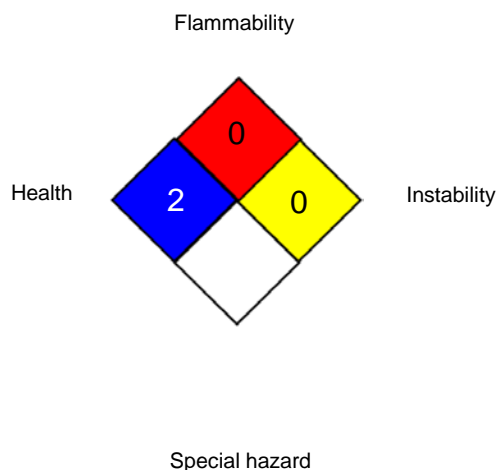
TSCA list

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



HMIS® IV:

HEALTH	/	2
FLAMMABILITY		0
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
 NIOSH REL : USA. NIOSH Recommended Exposure Limits
 OSHA P0 : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
 US WEEL : USA. Workplace Environmental Exposure Levels (WEEL)
 ACGIH / TWA : 8-hour, time-weighted average
 NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek

TENDOVO HERBICIDE

Version 1.0	Revision Date: 01/13/2022	SDS Number: S00051377745	This version replaces all previous versions.
----------------	------------------------------	-----------------------------	--

OSHA P0 / TWA : 8-hour time weighted average
US WEEL / TWA : 8-hr TWA

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECL - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / Z8