

T-2 Toxin Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Issue date: 6/20/2023 Version: 1.0

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

Product form : Substance T-2 Toxin Trade name EC-No. 244-297-7 CAS-No. : 21259-20-1 Product code CH-07-SX C24H34O9 Formula

Synonyms (3α,4β,8α)-12,13-epoxytrichothec-9-ene-3,4,8,15-tetrol 4,15-diacetate 8-(3-methylbutyrate)

Product group End product

Relevant identified uses 1.2.1.

Main use category : Industrial use, Professional use

Industrial/Professional use spec Industrial

For professional use only : Laboratory chemicals

Uses advised against 1.2.2.

Use of the substance/mixture

No additional information available

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SECTION 2: Hazards identification

Classification of the substance or

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

Acute Tox. 1 (Oral) H300 Acute Tox. 1 (Dermal) H310 Acute Tox. 1 (Inhalation) H330 Skin Irrit. 2 H315

Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

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

Hazard pictograms (CLP)



GHS06

Signal word (CLP) : Danger

Hazard statements (CLP) : H300+H310+H330 - Fatal if swallowed, in contact with skin or if inhaled

H315 - Causes skin irritation.

Precautionary statements (CLP) P260 - Do not breathe dust.

P262 - Do not get in eyes, on skin, or on clothing. P264 - Wash hands thoroughly after handling.

P280 - Wear protective clothing, protective gloves, eye protection, face protection.

P302+P352 - IF ON SKIN: Wash with plenty of water.

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P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P310 - Immediately call a POISON CENTER, a doctor.

2.3. Other hazard:

Other hazards which do not result in classification

: This substance / mixture does not contain any components of 0.1% or higher that are either classified as persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type : Mono-constituent

Name	Product identifier	%
T-2 Toxin	(CAS-No.) 21259-20-1 (EC-No.) 244-297-7	≤ 100

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. C	Description	

First-aid measures general : Consult a doctor. Show this safety data sheet to the doctor in attendance.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Get immediate medical

advice/attention. If breathing stops: immediately apply artificial respiration, if necessary also

oxygen.

First-aid measures after skin contact : After contact with skin, take off immediately all contaminated clothing, and wash immediately

with plenty of water. Get immediate medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if possible. Continue

nsıng.

First-aid measures after ingestion : Drink water immediately (max. 2 cups). Call a physician immediately. In exceptional cases only, if medical case is not available within one bour, induces compiling (only in persons who are wide

if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and

consult a doctor as quickly as possible.

I.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects

: The most important known symptoms and effects are described on the label (see 2.2) and / or in section 11.

I.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water, extinguishing powder. Foam. Carbon dioxide (CO2).

Unsuitable extinguishing media : There are no extinguishing agent restrictions for this substance.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Combustible.

Reactivity in case of fire : In case of fire: hazardous combustion gases or vapors possible.

Hazardous decomposition products in case of : Carbon oxides.

fire

Advice for firefighters

Protection during firefighting : Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by

keeping a safe distance or by wearing suitable protective clothing.

Other information : Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing

water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

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Emergency procedures

Avoid breathing dust. Avoid creating or spreading dust. Avoid substance contact. Ensure

adequate ventilation, observe emergency procedures, consult an expert.

6.1.2. For emergency responders

Protective equipment : Self-contained breathing apparatus.

Environmental precaution

Prevent entry to sewers and public waters.

Methods for cleaning up

Clean up and decontaminate all materials for disposal, as well as contaminated surfaces, with an effective decontamination method such as autoclaving, incineration, or chemical disinfection. Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts.

Information on exposure controls/personal protective equipment and on Instructions for disposal can be found in sections 8 and 13.

SECTION 7: Handling and storage

Precautions for safe handling

Precautions for safe handling

: Do not breathe substance/ mixture. Use under laboratory hood. For precautions see section

Hygiene measures

Take off immediately all contaminated clothing and wash it before reuse. Apply preventive skin protection. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Storage conditions

: Keep container tightly closed in a well-ventilated, dry place. Keep locked up or in an area

accessible only to qualified or authorized persons.

Storage temperature -20 °C

Storage area Storage class (TRGS 510): See section 15.1.2.

Scientific research and development.

SECTION 8: Exposure controls/personal protection

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Germany Contains no substances with occupational exposure limits

Exposure controls

Appropriate engineering controls:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Hand protection:

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Full contact-material: Nitrile rubber Minimum layer thickness: 0,11 mm

Break through time: 480 min

Splash contact-material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min

Eye protection:

Wear closed safety glasses. EN 166. Use face shield for larger quantities.

Skin and body protection:

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Flame retardant antistatic protective clothing

Respiratory protection:

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Required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Recommended Filter type: Filter type P3

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.

These measures have to be properly documented.









Environmental exposure controls:

Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : Powders.
Colour : White.

Odour No data available Odour threshold No data available No data available рΗ Relative evaporation rate (butylacetate=1) No data available Melting point : 151 - 152 °C Freezing point : No data available No data available Boiling point Flash point No data available Auto-ignition temperature No data available Decomposition temperature : No data available No data available Flammability (solid, gas) Vapour pressure No data available Relative vapour density at 20 °C No data available Relative density No data available

Solubility : Water: 0.001 g/l at 20 °C

Partition coefficient n-octanol/water (Log Pow) : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available Explosive properties : No data available Oxidising properties : No data available Explosive limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

10.2. Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

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10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

In the event of fire: see section 5.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Fatal if swallowed or in contact with skin. Fatal in contact with skin or if inhaled. Fatal if inhaled.

T-2 Toxin (21259-20-1)	
LD50 oral rat	2.7 mg/kg
LD50 dermal rat	2.56 mg/kg
LC50 Inhalation - Rat	0.02 mg/l - 0.17 h - dust/mist

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Not classified
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

Reproductive toxicity : Laboratory experiments have shown teratogenic effects.

Spermatogenesis

STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

Potential adverse human health effects and

symptoms

: RTECS: YD0100000

Contact with skin can cause: Dermatitis, Severe irritation

Symptoms and signs of poisoning are: Dizziness, Nausea, Vomiting.

Other information : To the best of our knowledge, the chemical, physical, and toxicological properties have not

been thoroughly investigated.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

T-2 Toxin (21259-20-1)	
Results of PBT assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

Product residues are to be disposed of in compliance with national and regional regulations dispose. Keep chemicals in original containers. Not with other waste mix. Uncleaned containers are to be treated according to the product. Pay attention to the waste policy 2008/98/EG.

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SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

ADR	IMDG	IATA
14.1. UN number		
3462	3462	3462
14.2. UN proper shipping name		
TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S. ((3α,4β,8α)-12,13-epoxytrichothec-9-ene-3,4,8,15-tetrol 4,15-diacetate 8-(3-methylbutyrate))	TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S. ((3α,4β,8α)-12,13-epoxytrichothec-9-ene-3,4,8,15-tetrol4,15-diacetate 8-(3-methylbutyrate))	Toxins, extracted from living sources, solid, n.o.s. $((3\alpha,4\beta,8\alpha)-12,13$ -epoxytrichothec-9-ene-3,4,8,15-tetrol 4,15-diacetate 8-(3-methylbutyrate))
14.3. Transport hazard class(es)		
6.1	6.1	6.1
6	6	6
14.4. Packing group		
1	1	1
14.5. Environmental hazards		
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No
No supplementary information available		

14.6. Special precautions for user

- Overland transport

No data available

- Transport by sea

No data available

- Air transport

No data available

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

T-2 Toxin is not on the REACH Candidate List

T-2 Toxin is not on the REACH Annex XIV List

Seveso Information : Seveso III: Directive 2012/18/EU of the European : ACUTE TOXIC

Parliament and of the Council on the control of major-accident hazards involving dangerous

substances.

15.1.2. National regulations

Germany

Regulatory reference : WGK 3, Highly hazardous to water

Storage class (LGK, TRGS 510) : LGK 6.1A - Combustible substances of acute toxicity, categories 1 and 2 / very toxic

substances

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG)

Observe restrictions according Act on the Protection of Young People in Employment

(JArbSchG)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

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15.2. Chemical safety assessment

For this product a chemical safety assessment was not carried out.

SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 1 (Dermal)	Acute toxicity (dermal), Category 1
Acute Tox. 1 (Inhalation)	Acute toxicity (inhal.), Category 1
Acute Tox. 1 (Oral)	Acute toxicity (oral), Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H300	Fatal if swallowed.
H310	Fatal in contact with skin.
H315	Causes skin irritation.
H330	Fatal if inhaled.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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