

HT-2 Toxin Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Issue date: 6/21/2023 Version: 1.0

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

Product form : Substance HT-2 Toxin Trade name EC-No. 621-720-7 CAS-No. : 26934-87-2 : CH-08-SX Product code Formula C22H32O8

Synonyms $15\text{-}Acetoxy-3\alpha,}4\beta\text{-}dihydroxy-8\alpha-(3\text{-}methylbutyryloxy})-12,\\13\text{-}epoxytrichothec-9-ene}$

Product group End product

1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use

Industrial/Professional use spec Industrial

For professional use only : Laboratory chemicals

Use of the substance/mixture Uses advised against 1.2.2.

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 Eye Irrit. 2 H319 STOT SE 3 H335

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.

H319 - Causes serious eye irritation. H335 - May cause respiratory irritation.

CH-08-SX EN (English) 1/7

Safety Data Sheet



according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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

P262 - Do not get in eyes, on skin, or on clothing.

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

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

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P310 - Immediately call a POISON CENTER, a doctor.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

2.3 Other hazards

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	%
HT-2 Toxin	(CAS-No.) 26934-87-2 (EC-No.) 621-720-7	≤ 100

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

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. Get medical advice/attention. Remove contact lenses, if possible. Continue rinsing.

First-aid measures after ingestion

Drink water immediatly (max. 2 cups). Call a physician immediately. In exceptional cases only, 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.

4.2. 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.

4.3. 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
Unsuitable extinguishing media

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

fire

: Carbon oxides.

5.3. 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.

Safety Data Sheet



according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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.

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.

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : 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.

6.4. Reference to other sections

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

7.1. Precautions for safe handling

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

2.2.

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.

7.2. Conditions for safe storage, including any incompatibilities

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.

7.3. Specific end use(s)

Scientific research and development.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

HT-2 Tovin	(26934-87-2)	

Germany Contains no substances with occupational exposure limits

8.2. 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:

Safety Data Sheet



according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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:

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 Molecular mass 424.48 g/mol Colour No data available Odour No data available No data available Odour threshold No data available Relative evaporation rate (butylacetate=1) No data available Melting point No data available No data available Freezing point Boiling point No data available Flash point No data available Auto-ignition temperature No data available Decomposition temperature No data available Flammability (solid, gas) No data available No data available Vapour pressure Relative vapour density at 20 °C No data available Relative density No data available Solubility No data available 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 No data available Oxidising properties

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Explosive limits

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.

: No data available

10.2. Chemical stability

Stable under the specified storage conditions.

10.3. Possibility of hazardous reaction

No additional information available

Safety Data Sheet



according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

10.4. Conditions to avoid

No additional information available

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.

HT-2 Toxin (26934-87-2)	
LD50 oral	3.8 mg/kg - Mouse
LD50 dermal	51 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	0.005 mg/l/4h

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified

STOT-single exposure : May cause respiratory irritation.

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

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

HT-2 Toxin (26934-87-2)	
	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 method

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.

 CH-08-SX
 EN (English)
 5/7

Safety Data Sheet



according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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	14.2. UN proper shipping name		
TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S. (15-Acetoxy-3α,4β-dihydroxy-8α-(3-methylbutyryloxy)-12,13-epoxytrichothec-9-ene)	TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S. (15-Acetoxy-3α,4β-dihydroxy-8α-(3-methylbutyryloxy)-12,13-epoxytrichothec-9-ene)	Toxins, extracted from living sources, solid, n.o.s. (15-Acetoxy-3α,4β-dihydroxy-8α-(3-methylbutyryloxy)-12,13-epoxytrichothec-9-ene)	
14.3. Transport hazard class(es)			
6.1	6.1	6.1	
6	6	6	
14.4. Packing group			
1	I	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

Tunnel restriction code (ADR) : C/E

- Transport by sea

No data available

- Air transport

No data available

4.7. 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

HT-2 Toxin is not on the REACH Candidate List HT-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)

Safety Data Sheet



according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation
H300	Fatal if swallowed.
H310	Fatal in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.

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.

CH-08-SX EN (English) 7/7