

Safety Data Sheet

according to Regulation (EC) No 1907/2006

H-Trp-Trp-OH

Revision date: 13.04.2018

Product code: 4002133

Page 1 of 8

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

1.1. Product identifier

H-Trp-Trp-OH
CAS No: 20696-60-0

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

Use of the substance/mixture
Laboratory chemicals

1.3. Details of the supplier of the safety data sheet

Company name: Bachem AG
Street: Hauptstrasse 144
Place: CH-4416 Bubendorf
Telephone: +41 58 595 2021 Telefax: +41 58 595 2040
e-mail (Contact person): msds@bachem.com
Responsible Department: Department: Global Marketing

1.4. Emergency telephone number: +41 44 251 51 51 (Tox Info Suisse)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:
Germ cell mutagenicity: Muta. 2
Acute toxicity: Acute Tox. 3
Acute toxicity: Acute Tox. 3
Acute toxicity: Acute Tox. 3
Specific target organ toxicity - single exposure: STOT SE 2
Hazard Statements:
Toxic if swallowed.
Toxic in contact with skin.
Toxic if inhaled.
Suspected of causing genetic defects.
May cause damage to organs.

2.2. Label elements

Regulation (EC) No. 1272/2008

Signal word: Danger

Pictograms:



Hazard statements

H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.
H341 Suspected of causing genetic defects.
H371 May cause damage to organs.

Precautionary statements

P201 Obtain special instructions before use.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

H-Trp-Trp-OH

Revision date: 13.04.2018

Product code: 4002133

Page 2 of 8

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P308+P311	IF exposed or concerned: Call a POISON CENTER/doctor.
P321	Specific treatment (see SECTION 4: First aid measures on this label).
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container to an appropriate recycling or disposal facility.

SECTION 3: Composition/information on ingredients**3.1. Substances**

Sum formula:	C22H22N4O3
Molecular weight:	390.44

Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	GHS Classification			
20696-60-0	H-Trp-Trp-OH			100 %
	Muta. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT SE 2; H341 H331 H311 H301 H371			

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Change contaminated, saturated clothing. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Seek medical advice immediately.

After contact with skin

Rinse cautiously with water for several minutes. Seek medical advice immediately.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

After ingestion

IF SWALLOWED: rinse mouth. Never give anything by mouth to an unconscious person or a person with cramps. Seek medical advice immediately.

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

No information available.

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

No information available.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Dry extinguishing powder

Unsuitable extinguishing media

No information available.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

H-Trp-Trp-OH

Revision date: 13.04.2018

Product code: 4002133

Page 3 of 8

5.2. Special hazards arising from the substance or mixture

Carbon monoxide Carbon dioxide (CO₂) Nitrogen oxides (NO_x)

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Do not breathe dust/fume/gas/mist/vapours/spray. Remove persons to safety.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Cover drains.

6.3. Methods and material for containment and cleaning up

Collect spillage. Avoid dust formation.

6.4. Reference to other sections

Safe handling: see section 7

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Do not breathe dust/fume/gas/mist/vapours/spray. Keep container tightly closed and dry.

Advice on protection against fire and explosion

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

Further information on handling

No information available.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in a dry place. Store in a closed container.

Hints on joint storage

Do not store together with:
Food and feedingstuffs

Further information on storage conditions

Protect against:
Heat
Humidity

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional advice on limit values

To date, no national critical limit values exist.

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

H-Trp-Trp-OH

Revision date: 13.04.2018

Product code: 4002133

Page 4 of 8

Protective and hygiene measures

Work in well-ventilated zones or use proper respiratory protection. Only wear fitting, comfortable and clean protective clothing. Avoid contact with skin, eyes and clothes. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink or smoke.

Eye/face protection

Suitable eye protection:

Eye glasses with side protection
goggles

Hand protection

Wear protective gloves.

Suitable material: NBR (Nitrile rubber), Butyl caoutchouc (butyl rubber)

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Protective clothing

Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.:

Self-contained respirator (breathing apparatus) (DIN EN 133)

Combination filtering device (EN 14387)

Environmental exposure controls

Avoid release to the environment.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	solid
Colour:	whitish
Odour:	This information is not available.
Odour threshold:	This information is not available.
pH-Value:	No data available
Changes in the physical state	
Melting point:	No data available
Initial boiling point and boiling range:	No data available
Sublimation point:	No data available
Softening point:	No data available
Pour point:	No data available
Flash point:	No data available
Sustaining combustion:	No data available
Explosive properties	
No data available	
Lower explosion limits:	No data available
Upper explosion limits:	No data available
Ignition temperature:	No data available
Oxidizing properties	
No data available	
Vapour pressure:	No data available

Safety Data Sheet

according to Regulation (EC) No 1907/2006

H-Trp-Trp-OH

Revision date: 13.04.2018

Product code: 4002133

Page 5 of 8

Density:	No data available
Bulk density:	No data available
Water solubility:	No data available
Partition coefficient:	No data available
Viscosity / dynamic:	No data available
Viscosity / kinematic:	No data available
Vapour density:	No data available
Evaporation rate:	No data available
Solvent content:	No data available

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

The substance is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours.

Further information

No data available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution

No data available

Acute toxicity

Toxic if swallowed.
Toxic in contact with skin.
Toxic if inhaled.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
20696-60-0	H-Trp-Trp-OH				
	oral	ATE 100 mg/kg			
	dermal	ATE 300 mg/kg			
	inhalation vapour	ATE 3 mg/l			
	inhalation aerosol	ATE 0.5 mg/l			

Safety Data Sheet

according to Regulation (EC) No 1907/2006

H-Trp-Trp-OH

Revision date: 13.04.2018

Product code: 4002133

Page 6 of 8

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing genetic defects. (H-Trp-Trp-OH)

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure

May cause damage to organs. (H-Trp-Trp-OH)

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

SECTION 12: Ecological information**12.1. Toxicity**

The product has not been tested.

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The product has not been tested.

12.6. Other adverse effects

No information available.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information**Land transport (ADR/RID)**

14.1. UN number:	UN 2811
14.2. UN proper shipping name:	TOXIC SOLID, ORGANIC, N.O.S. (H-TRP-TRP-OH)
14.3. Transport hazard class(es):	6.1
14.4. Packing group:	III
Hazard label:	6.1

Safety Data Sheet

according to Regulation (EC) No 1907/2006

H-Trp-Trp-OH

Revision date: 13.04.2018

Product code: 4002133

Page 7 of 8



Classification code: T2
Special Provisions: 274 614
Limited quantity: 5 kg
Excepted quantity: E1
Transport category: 2
Hazard No: 60
Tunnel restriction code: E

Inland waterways transport (ADN)

14.1. UN number: UN 2811
14.2. UN proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (H-TRP-TRP-OH)
14.3. Transport hazard class(es): 6.1
14.4. Packing group: III
Hazard label: 6.1



Classification code: T2
Special Provisions: 274 614 802
Limited quantity: 5 kg
Excepted quantity: E1

Marine transport (IMDG)

14.1. UN number: UN 2811
14.2. UN proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (H-TRP-TRP-OH)
14.3. Transport hazard class(es): 6.1
14.4. Packing group: III
Hazard label: 6.1



Special Provisions: 223, 274
Limited quantity: 5 kg
Excepted quantity: E1
EmS: F-A, S-A

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 2811
14.2. UN proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (H-TRP-TRP-OH)
14.3. Transport hazard class(es): 6.1
14.4. Packing group: III
Hazard label: 6.1



Special Provisions: A3 A5
Limited quantity Passenger: 10 kg
Passenger LQ: Y645

Safety Data Sheet

according to Regulation (EC) No 1907/2006

H-Trp-Trp-OH

Revision date: 13.04.2018

Product code: 4002133

Page 8 of 8

Excepted quantity:	E1	
IATA-packing instructions - Passenger:		670
IATA-max. quantity - Passenger:		100 kg
IATA-packing instructions - Cargo:		677
IATA-max. quantity - Cargo:		200 kg

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulatory information****SECTION 16: Other information****Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer
(Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
CAS: Chemical Abstracts Service (division of the American Chemical Society)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
CLP: Regulation on Classification, Labelling and Packaging of Substances and Mixtures
ATE: Acute toxic estimate
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
EC50: Effectice concentration, 50 percent
DNEL: Derived No Effect Level
PNEC: Predicted No Effect Concentration
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

Relevant H and EUH statements (number and full text)

H301	Toxic if swallowed.
H301+H311+H331	Toxic if swallowed, in contact with skin or if inhaled.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H341	Suspected of causing genetic defects.
H371	May cause damage to organs.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.