

# triformin safeDIS

Version: 3 / GB

Replaces Version: 2 / GB

Date revised: 25.04.2022

Print date: 20.01.23

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

### 1.1. Product identifier

triformin safeDIS

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

**Identified Uses**

disinfectants

### 1.3. Details of the supplier of the safety data sheet

**Address:**

Chemische Fabrik Dr. Weigert GmbH & Co. KG  
Mühlenhagen 85  
D-20539 Hamburg  
Telephone no. +49 40 789 60 0  
Fax no. +49 40 789 60 120  
www.drweigert.com

**E-mail address of person responsible for this SDS:**

sida@drweigert.de

### 1.4. Emergency telephone number

Emergency telephone number: 112

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification (Regulation (EC) No. 1272/2008)**

Classification (Regulation (EC) No. 1272/2008)

Flam. Liq. 3 H226

Eye Irrit. 2 H319

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008  
For explanation of abbreviations see section 16.

### 2.2. Label elements

**Labelling according to regulation (EC) No 1272/2008**

**Hazard pictograms**



**Signal word**

Warning

**Hazard statements**

H226 Flammable liquid and vapour.  
H319 Causes serious eye irritation.

**Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition

# triformin safeDIS

Version: 3 / GB

Replaces Version: 2 / GB

Date revised: 25.04.2022

Print date: 20.01.23

P305+P351+P338 sources. No smoking.  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337+P313 If eye irritation persists: Get medical advice/attention.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
 Dispose only when container is empty and closed. For disposal of product residues, refer to safety data sheet.

## 2.3. Other hazards

No special hazards have to be mentioned.  
 The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients

##### propan-1-ol

CAS No.	71-23-8				
EINECS no.	200-746-9				
Registration no.	01-2119486761-29				
Concentration	>= 1	<	10		%
Classification (Regulation (EC) No. 1272/2008)					
	Flam. Liq. 2			H225	
	Eye Dam. 1			H318	
	STOT SE 3			H336	

##### citric acid

CAS No.	77-92-9				
EINECS no.	201-069-1				
Registration no.	01-2119457026-42				
Concentration	>= 1	<	10		%
Classification (Regulation (EC) No. 1272/2008)					
	Eye Irrit. 2			H319	
	STOT SE 3			H335	

##### ethanol

CAS No.	64-17-5				
EINECS no.	200-578-6				
Registration no.	01-2119457610-43				
Concentration	>= 50				%
Classification (Regulation (EC) No. 1272/2008)					
	Flam. Liq. 2			H225	

#### Further ingredients

##### glycerol

CAS No.	56-81-5				
EINECS no.	200-289-5				
Concentration	>= 1	<	10		%
Advice: [3]					

#### Note

[3] Substance with occupational exposure limits

# triformin safeDIS

Version: 3 / GB

Replaces Version: 2 / GB

Date revised: 25.04.2022

Print date: 20.01.23

## Other information

Complete text of hazard statements in chapter 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

Remove contaminated clothing immediately and dispose of safely. In case of persistent symptoms consult doctor.

#### After inhalation

Ensure supply of fresh air. In the event of symptoms take medical treatment.

#### After skin contact

No special measures required.

#### After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Seek medical advice immediately.

#### After ingestion

Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Take medical treatment.

#### Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection!

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

Until now no symptoms known so far.

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

#### Hints for the physician / hazards

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Dry powder, Foam, Carbon dioxide, Water spray jet

#### Non suitable extinguishing media

Full water jet

### 5.2. Special hazards arising from the substance or mixture

In case of combustion evolution of dangerous gases possible.

### 5.3. Advice for firefighters

#### Special protective equipment for fire-fighting

Do not inhale explosion and/or combustion gases. In case of combustion use a suitable breathing apparatus.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Keep away sources of ignition. Ensure adequate ventilation. Use personal protective clothing.

### 6.2. Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

# triformin safeDIS

Version: 3 / GB

Replaces Version: 2 / GB

Date revised: 25.04.2022

Print date: 20.01.23

## 6.3. Methods and material for containment and cleaning up

Pick up rest with suitable absorbent materials. Containers in which spilt substance has been collected must be adequately labelled. Dispose of as prescribed.

## 6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid formation of aerosols. Keep container tightly closed.

#### Advice on protection against fire and explosion

Keep away from sources of heat and ignition. No smoking. Take action to prevent static discharges.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Recommended storage temperature

Value > -20 < 40 °C

#### Requirements for storage rooms and vessels

Keep in original packaging, tightly closed. Storage rooms must be properly ventilated.

#### Hints on storage assembly

Do not store with strong oxidizing agents.

#### Storage classes

Storage class according to TRGS 510 3 Flammable liquid

#### Further information on storage conditions

Keep container tightly closed. Keep container in a cool, well-ventilated place. Protect from heat and direct sunlight.

### 7.3. Specific end use(s)

no data

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limit values

##### propan-1-ol

List	EH40			
Type	WEL			
Value	500	mg/m <sup>3</sup>	200	ppm(V)
Short term exposure limit	625	mg/m <sup>3</sup>	250	ppm(V)
Skin resorption / sensibilisation: Sk; Remarks: Sk				

##### ethanol

List	EH40			
Type	WEL			
Value	1920	mg/m <sup>3</sup>	1000	ppm(V)

##### Glycerol

List	EH40			
Type	WEL			
Value	10	mg/m <sup>3</sup>		

#### Other information

# triformin safeDIS

Version: 3 / GB

Replaces Version: 2 / GB

Date revised: 25.04.2022

Print date: 20.01.23

There are not known any further control parameters.

## 8.2. Exposure controls

### General protective and hygiene measures

Do not smoke during work time. Do not inhale gases/vapours/aerosols. Do not eat or drink during work time. Take off immediately all contaminated clothing. Wash hands before breaks and after work.

### Respiratory protection

If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn.

### Hand protection

Not necessary.

### Body protection

Clothing as usual in the chemical industry.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Physical state

liquid

#### Colour

colourless

#### Odour

alcohol-like

#### Melting point

Remarks not determined

#### Freezing point

Remarks not determined

#### Boiling point or initial boiling point and boiling range

Value > 70 °C

#### Flammability

evaluation not determined

#### Upper and lower explosive limits

Remarks not determined

#### Flash point

Value 23 °C

Method Regulation (EC) No. 440/2008, Annex, A.9

#### Ignition temperature

Remarks not determined

#### Decomposition temperature

Remarks  
Remarks not determined

#### pH value

Value appr. 3,4  
Temperature 20 °C

#### Viscosity

##### dynamic

Value < 10 mPa.s  
Temperature 20 °C

#### Solubility(ies)

Remarks not determined

#### Partition coefficient n-octanol/water (log value)

Remarks not determined

# triformin safeDIS

Version: 3 / GB

Replaces Version: 2 / GB

Date revised: 25.04.2022

Print date: 20.01.23

## Vapour pressure

Value	<	57		hPa
Temperature		20	°C	

## Density and/or relative density

Value		0,87		g/cm <sup>3</sup>
Temperature		20	°C	

## Relative vapour density

Remarks not determined

## 9.2. Other information

### Odour threshold

Remarks not determined

### Evaporation rate (ether = 1) :

Remarks not determined

### Solubility in water

Remarks Completely miscible

### Explosive properties

evaluation not determined

### Oxidising properties

evaluation None known

### Other information

None known

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No hazardous reactions when stored and handled according to prescribed instructions.

### 10.2. Chemical stability

No hazardous reactions known.

### 10.3. Possibility of hazardous reactions

No hazardous reactions known.

### 10.4. Conditions to avoid

Protect from heat and direct sunlight. Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.

### 10.5. Incompatible materials

Reactions with strong oxidising agents.

### 10.6. Hazardous decomposition products

No hazardous decomposition products known.

## SECTION 11: Toxicological information

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

#### Acute oral toxicity

Species	rat		
ATE	>	2000	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)		
Remarks	Based on available data, the classification criteria are not met.		

#### Acute oral toxicity (Components)

# triformin safeDIS

Version: 3 / GB

Replaces Version: 2 / GB

Date revised: 25.04.2022

Print date: 20.01.23

## propan-1-ol

Species	rat		
LD50	appr.	5400	mg/kg

## citric acid

Species	rat		
LD50		11700	mg/kg

## citric acid

Species	mouse		
LD50		5040	mg/kg

## Acute dermal toxicity

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

## Acute dermal toxicity (Components)

### propan-1-ol

Species	rabbit		
LD50		4032	mg/kg
Duration of exposure		24	h
Method	OECD 402		

## Acute inhalational toxicity

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

## Acute inhalative toxicity (Components)

### propan-1-ol

Species	rat		
LC50	>	33,8	mg/l
Duration of exposure		4	h
Administration/Form	Vapors		
Method	OECD 403		

## Skin corrosion/irritation

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

## Serious eye damage/irritation

evaluation	irritant
Method	Draize method
Remarks	Test conducted with a similar formulation.

## Sensitization

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

## Subacute, subchronic, chronic toxicity

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

## Mutagenicity

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

## Reproductive toxicity

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

## Carcinogenicity

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

## Specific Target Organ Toxicity (STOT)

### Single exposure

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

### Repeated exposure

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

# triformin safeDIS

Version: 3 / GB

Replaces Version: 2 / GB

Date revised: 25.04.2022

Print date: 20.01.23

## Aspiration hazard

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

## 11.2 Information on other hazards

### Endocrine disrupting properties with respect to humans

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

### Other information

There is no data available on the product apart from the information given in this subsection.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### General information

not determined

#### Fish toxicity (Components)

##### propan-1-ol

Species	Fathead minnow ( <i>Pimephales promelas</i> )		
LC50	4555		mg/l
Duration of exposure	96	h	
Method	OECD 203		

##### citric acid

Species	golden orfe ( <i>Leuciscus idus</i> )		
LC50	440	to	706
Duration of exposure	96	h	mg/l

#### Daphnia toxicity (Components)

##### propan-1-ol

Species	Daphnia magna		
EC50	3644		mg/l
Duration of exposure	48	h	
Method	DIN 38412 / Part 11		

##### citric acid

Species	Daphnia magna		
EC50	120		mg/l
Duration of exposure	72	h	

#### Algae toxicity (Components)

##### propan-1-ol

Species	Selenastrum capricornutum		
EC50	9170		mg/l
Duration of exposure	48	h	

#### Bacteria toxicity (Components)

##### propan-1-ol

Species	activated sludge		
IC50	> 1000		mg/l
Duration of exposure	3	h	
Method	OECD 209		

### 12.2. Persistence and degradability

#### General information

There is no data available on the product apart from the information given in this subsection.



# triformin safeDIS

Version: 3 / GB

Replaces Version: 2 / GB

Date revised: 25.04.2022

Print date: 20.01.23

## Biodegradability

evaluation

Readily biodegradable (according to OECD criteria)

## Ready degradability (Components)

citric acid

## 12.3. Bioaccumulative potential

### General information

There is no data available on the product apart from the information given in this subsection.

### Partition coefficient n-octanol/water (log value)

Remarks

not determined

## 12.4. Mobility in soil

### General information

For this subsection there is no ecotoxicological data available on the product as such.

## 12.5. Results of PBT and vPvB assessment

### General information

Not applicable

### Results of PBT and vPvB assessment

The product contains no PBT substances

The product contains no vPvB substances.

## 12.6 Endocrine disrupting properties

### Endocrine disrupting properties with respect to the environment

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

## 12.7. Other adverse effects

### General information

not determined

### General information / ecology

Do not discharge product unmonitored into the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations for the product

EWC waste code 18 01 06\* chemicals consisting of or containing dangerous substances

EWC waste code 20 01 29\* detergents containing dangerous substances

The listed waste code numbers, according to the European Waste Catalogue (EWC), are to be understood as a recommendation. A final decision must be made in agreement with the regional waste disposal company.

#### Disposal recommendations for packaging

EWC waste code 15 01 02 plastic packaging

Completely emptied packagings can be given for recycling.

EWC waste code 15 01 10\* packaging containing residues of or contaminated by dangerous substances

Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

## SECTION 14: Transport information




# triformin safeDIS

Version: 3 / GB

Replaces Version: 2 / GB

Date revised: 25.04.2022

Print date: 20.01.23

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	D/E		
IMDG-Code segregation group		0 Not applicable	
14.1. UN number or ID number	1987	1987	1987
14.2. UN proper shipping name	ALCOHOLS, N.O.S. (propan-1-ol, ethanol)	ALCOHOLS, N.O.S. (propan-1-ol, ethanol)	ALCOHOLS, N.O.S. (propan-1-ol, ethanol)
14.3. Transport hazard class(es)	3	3	3
Label			
14.4. Packing group	III	III	III
Limited Quantity	5 l	5 l	
Transport category	3		
14.5. Environmental hazards		no	

## Information for all modes of transport

### 14.6. Special precautions for user

See Sections 6 to 8

## Other information

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

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

#### Major-accident categories acc. 2012/18/EU

Category	P5c	FLAMMABLE LIQUID	5.000.000	kg	50.000.000	kg
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#### VOC

VOC (EU)	0	%
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#### Other information

The product does not contain substances of very high concern (SVHC).

#### Other information

All components are contained in the TSCA inventory or exempted.

### 15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

# triformin safeDIS

Version: 3 / GB

Replaces Version: 2 / GB

Date revised: 25.04.2022

Print date: 20.01.23

## SECTION 16: Other information

### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification (Regulation (EC) No. 1272/2008)

Flam. Liq. 3	H226
Eye Irrit. 2	H319

### Hazard statements listed in Chapter 2/3

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.

### CLP categories listed in Chapter 2/3

Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 2	Flammable liquid, Category 2
Flam. Liq. 3	Flammable liquid, Category 3
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

### Abbreviations

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route  
RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses  
IMDG: International Maritime Code for Dangerous Goods  
ICAO: International Civil Aviation Organization  
IATA: International Air Transport Association  
MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978 (MARPOL: Marine Pollution)  
IBC: Intermediate Bulk Container  
CAS: Chemical Abstracts Service  
VOC: Volatile Organic Compound  
LD: Lethal dose  
LC: Lethal concentration  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: Very persistent and very bioaccumulative  
SVHC: Substances of very high concern  
EU: European Union

### Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\*  
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.