Fritz Berger GmbH



# **Safety Data Sheet**

according to UK REACH Regulation

# **Berger Fresh Tankcleaner**

Revision date: 31.03.2023 Product code: Kba-504 Page 1 of 10

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

#### 1.1. Product identifier

Berger Fresh Tankcleaner

Product group: Endprodukt

UFI: KV8G-FPHM-YE07-VAES

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

#### Use of the substance/mixture

Reinigung Frischwassertank

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

Company name:
Street:
Place:
Place:
D-92318 Neumarkt
Telephone:
e-mail:
service@fritz-berger.de

1.4. Emergency telephone
number:
Fritz Berger GmbH
Fritz-Berger GmbH
Fritz-Berger-Str. 1
D-92318 Neumarkt
+49 (0) 9181 330 100
service@fritz-berger.de

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

# **GB CLP Regulation**

Eye Irrit. 2; H319

Full text of hazard statements: see SECTION 16.

#### 2.2. Label elements

# **GB CLP Regulation**

Signal word: Warning

Pictograms:



#### **Hazard statements**

H319 Causes serious eye irritation.

# **Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P264 Wash Hände thoroughly after handling.

P280 Wear Augenschutz.

P305+P351+P338 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.

# 2.3. Other hazards

No information available.

# **SECTION 3: Composition/information on ingredients**

# 3.2. Mixtures



according to UK REACH Regulation

# Berger Fresh Tankcleaner

Revision date: 31.03.2023 Product code: Kba-504 Page 2 of 10

### **Hazardous components**

CAS No	Chemical name		Quantity	
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)	Classification (GB CLP Regulation)		
5949-29-1	Citric Acid Monohydrate			1 - < 5 %
	201-069-1		01-2119457026-42	
	Eye Irrit. 2; H319			
69011-36-5	Isotridecanol, ethoxylated (9 EO)			1 - < 5 %
	500-241-6			
	Acute Tox. 4, Eye Dam. 1; H302 H318			

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

#### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. L	Specific Conc. Limits, M-factors and ATE	
5949-29-1	201-069-1	Citric Acid Monohydrate	1 - < 5 %
	dermal: LD50 =	ermal: LD50 = > 2000 mg/kg; oral: LD50 = 3000 mg/kg	
69011-36-5	500-241-6	Isotridecanol, ethoxylated (9 EO)	
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = 500 - 2000 mg/kg		

### Labelling for contents according to Regulation (EC) No 648/2004

< 5 % non-ionic surfactants, perfumes, preservation agents (Phenoxyethanol).

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### After inhalation

Provide fresh air.

#### After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

#### After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

#### After ingestion

Rinse mouth immediately and drink 1 glass of of water.

# 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

Treat symptomatically.

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

# 5.2. Special hazards arising from the substance or mixture

Non-flammable.

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.



Fritz Berger GmbH

according to UK REACH Regulation

## Berger Fresh Tankcleaner

Revision date: 31.03.2023 Product code: Kba-504 Page 3 of 10

#### Additional information

Suppress gases/vapours/mists with water spray jet. 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

#### General advice

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

#### For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

#### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

# **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

#### Advice on safe handling

No special measures are necessary.

#### Advice on protection against fire and explosion

No special fire protection measures are necessary.

#### Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat,

drink, smoke, sniff.

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

### Requirements for storage rooms and vessels

Keep container tightly closed.

#### Hints on joint storage

No special measures are necessary.

#### 7.3. Specific end use(s)

Reinigung Frischwassertank

# **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters



according to UK REACH Regulation

# Berger Fresh Tankcleaner

Revision date: 31.03.2023 Product code: Kba-504 Page 4 of 10

#### **DNEL/DMEL values**

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
69011-36-5	Isotridecanol, ethoxylated (9 EO)			
Worker DNEL, long-term inhalation systemic 294 mg/m³		294 mg/m³		
Worker DNEL, long-term		dermal	systemic	2080 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	87 mg/m³
Consumer DNEL, long-term		dermal	systemic	1250 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	25 mg/kg bw/day

#### **PNEC values**

CAS No	Substance		
Environmenta	Environmental compartment		
5949-29-1	Citric Acid Monohydrate		
Freshwater		440 mg/l	
Freshwater se	ediment	3,46 mg/kg	
Marine sedim	ent	34,6 mg/kg	
Micro-organisms in sewage treatment plants (STP)		> 1000 mg/l	
Soil		33,1 mg/kg	
69011-36-5	Isotridecanol, ethoxylated (9 EO)		
Freshwater		0,074 mg/l	
Marine water		0,007 mg/l	
Freshwater sediment		0,604 mg/kg	
Marine sediment		0,06 mg/kg	
Micro-organis	ms in sewage treatment plants (STP)	1,4 mg/l	
Soil		0,1 mg/kg	

#### 8.2. Exposure controls



## Individual protection measures, such as personal protective equipment

# Eye/face protection

Suitable eye protection: goggles.

#### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. 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

Use of protective clothing.

# **Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

Fritz Berger GmbH



# **Safety Data Sheet**

according to UK REACH Regulation

## Berger Fresh Tankcleaner

Revision date: 31.03.2023 Product code: Kba-504 Page 5 of 10

### **SECTION 9: Physical and chemical properties**

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

Physical state: Liquid
Colour: yellow
Odour: Lemon

Melting point/freezing point:

Boiling point or initial boiling point and

not determined

100 °C

boiling range:

Flammability: not applicable Lower explosion limits: not determined Upper explosion limits: not determined Flash point: not determined Auto-ignition temperature: not determined Decomposition temperature: not determined 26 pH-Value (at 20 °C): Water solubility: easily soluble

Solubility in other solvents

not determined

Partition coefficient n-octanol/water: not determined Vapour pressure: 23 hPa

(at 20 °C)

Vapour pressure: 123 hPa

(at 50 °C)

Density (at 20 °C): 1,01 g/cm³
Relative vapour density: not determined

#### 9.2. Other information

# Information with regard to physical hazard classes

Explosive properties

The product is not: Explosive.

Oxidizing properties

The product is not: oxidising.

# Other safety characteristics

Evaporation rate: not determined Solid content: not determined

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

# 10.4. Conditions to avoid

none

# 10.5. Incompatible materials

No information available.

# 10.6. Hazardous decomposition products

No known hazardous decomposition products.



according to UK REACH Regulation

# Berger Fresh Tankcleaner

Revision date: 31.03.2023 Product code: Kba-504 Page 6 of 10

### **SECTION 11: Toxicological information**

### 11.1. Information on hazard classes as defined in GB CLP Regulation

#### **Acute toxicity**

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

#### **ATEmix** calculated

ATE (oral) 27777,8 mg/kg

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
5949-29-1	Citric Acid Monohydrate					
	oral	LD50 mg/kg	3000	Rat	Supplier	
	dermal	LD50 mg/kg	> 2000	Rat	ECHA	OECD-Richtlinie 402
69011-36-5	Isotridecanol, ethoxylated (9 EO)					
	oral	LD50 2000 mg/kg		Rat	Lieferant	
	dermal	LD50 mg/kg	> 2000	Rabbit	ECHA	OECD 402

#### Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: 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

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

# STOT-single exposure

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

# 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.

# 11.2. Information on other hazards

#### **Further information**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

### **SECTION 12: Ecological information**

# 12.1. Toxicity

The product is not: Ecotoxic.



according to UK REACH Regulation

# Berger Fresh Tankcleaner

Revision date: 31.03.2023 Product code: Kba-504 Page 7 of 10

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
5949-29-1	Citric Acid Monohydrate						
	Acute fish toxicity	LC50 760 mg/l	440 -		Leuciscus idus (golden orfe)	Supplier	OECD 203
	Acute algae toxicity	ErC50	120 mg/l		Daphnia magna (Big water flea)	Supplier	
69011-36-5	Isotridecanol, ethoxylated	(9 EO)					
	Acute fish toxicity	LL50 mg/l	> 1,1	96 h	Fische	ECHA	
	Acute algae toxicity	ErC50 mg/l	> 10		Desmodesmus subspicatus	Supplier	
	Acute crustacea toxicity	EC50	7,7 mg/l		Daphnia magna (Big water flea)	Supplier	
	Acute bacteria toxicity	(EC50 mg/l)	140	3 h	Activated sludge	ECHA	

### 12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name					
	Method	Value	d	Source		
	Evaluation					
5949-29-1	Citric Acid Monohydrate					
	OECD 301 B	97 %	28			
	Zahn-Wellens-Test (OECD 302 B)	98 %				
69011-36-5	Isotridecanol, ethoxylated (9 EO)					
	CO2 evolution	80 %	28			
	leicht biologisch abbaubar					

### 12.3. Bioaccumulative potential

The product has not been tested.

### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
5949-29-1	Citric Acid Monohydrate	-1,57
69011-36-5	Isotridecanol, ethoxylated (9 EO)	

# 12.4. Mobility in soil

The product has not been tested.

# 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

The product has not been tested.

# 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

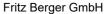
# 12.7. Other adverse effects

No information available.

#### **Further information**

Avoid release to the environment.

### **SECTION 13: Disposal considerations**





according to UK REACH Regulation

#### Berger Fresh Tankcleaner

Revision date: 31.03.2023 Product code: Kba-504 Page 8 of 10

#### 13.1. Waste treatment methods

# **Disposal recommendations**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

### List of Wastes Code - residues/unused products

200129 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND

INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); detergents containing hazardous substances; hazardous waste

#### List of Wastes Code - contaminated packaging

150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND

PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately

collected municipal packaging waste); plastic packaging

#### Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled.

## **SECTION 14: Transport information**

# Land transport (ADR/RID)

14.1. UN number or ID number:No dangerous good in sense of this transport regulation.14.2. UN proper shipping name:No dangerous good in sense of this transport regulation.14.3. Transport hazard class(es):No dangerous good in sense of this transport regulation.14.4. Packing group:No dangerous good in sense of this transport regulation.

#### Inland waterways transport (ADN)

14.1. UN number or ID number:No dangerous good in sense of this transport regulation.14.2. UN proper shipping name:No dangerous good in sense of this transport regulation.14.3. Transport hazard class(es):No dangerous good in sense of this transport regulation.14.4. Packing group:No dangerous good in sense of this transport regulation.

## Marine transport (IMDG)

14.1. UN number or ID number:No dangerous good in sense of this transport regulation.14.2. UN proper shipping name:No dangerous good in sense of this transport regulation.14.3. Transport hazard class(es):No dangerous good in sense of this transport regulation.14.4. Packing group:No dangerous good in sense of this transport regulation.

# Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:No dangerous good in sense of this transport regulation.14.2. UN proper shipping name:No dangerous good in sense of this transport regulation.14.3. Transport hazard class(es):No dangerous good in sense of this transport regulation.14.4. Packing group:No dangerous good in sense of this transport regulation.

# 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

# 14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

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

No dangerous good in sense of this transport regulation.

# **SECTION 15: Regulatory information**

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

### **EU** regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

2004/42/EC (VOC): 0,589 % (5,944 g/l)



according to UK REACH Regulation

# Berger Fresh Tankcleaner

Revision date: 31.03.2023 Product code: Kba-504 Page 9 of 10

Information according to 2012/18/EU

(SEVESO III):

Not subject to 2012/18/EU (SEVESO III)

#### **Additional information**

Regulation (EC) No. 648/2004 [Detergents regulation].

#### **National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC).

Water hazard class (D): 1 - slightly hazardous to water

# 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

### **SECTION 16: Other information**

### Abbreviations and acronyms

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

**UN: United Nations** 

CAS: Chemical Abstracts Service
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate LC50: Lethal concentration, 50%

LD50: Lethal dose, 50% LL50: Lethal loading, 50% EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Regulations concerning the international carriage of dangerous goods by rail

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

IMDG: International Maritime Code for Dangerous Goods

EmS: Emergency Schedules MFAG: Medical First Aid Guide

IATA: International Air Transport Association ICAO: International Civil Aviation Organization

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

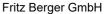
IBC: Intermediate Bulk Container VOC: Volatile Organic Compounds SVHC: Substance of Very High Concern

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety

assessment, chapter R.20 (Table of terms and abbreviations).

#### Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Eye Irrit. 2; H319	Calculation method





according to UK REACH Regulation

# Berger Fresh Tankcleaner

Revision date: 31.03.2023 Product code: Kba-504 Page 10 of 10

# Relevant H and EUH statements (number and full text)

H302 Harmful if swallowed.

H318 Causes serious eye damage. H319 Causes serious eye irritation.

#### **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. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)