



# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 03/04/2023 Version: 1.0

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

### 1.1. Product identifier : Substance Product form Substance name : Capsaicin Product code 201700119 ÷ 1.2. Relevant identified uses of the substance or mixture and uses advised against 1.2.1. Relevant identified uses Main use category : The product is intended for research, analysis and scientific education. Use of the substance/mixture : For professional use only : Laboratory chemicals Function or use category 1.2.2. Uses advised against Restrictions on use : Do not use : Ingestion, Inhalation, Dermal 1.3. Details of the supplier of the safety data sheet European Directorate for the Quality of Medicines & Healthcare EDQM, Council of Europe 7, Allée Kastner, CS30026 F-67081 Strasbourg France T +33(0)388412035 - F +33(0)388412771 sds@edqm.eu - www.edqm.eu 1.4. Emergency telephone number

Emergency number

: +33(0)390215608

# **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

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

Acute toxicity (oral), Category 3	H301
Serious eye damage/eye irritation, Category 1	H318
Respiratory sensitisation, Category 1	H334
Skin sensitisation, Category 1	H317
Specific target organ toxicity – Repeated exposure, Category 1	H372
Full text of H- and EUH-statements: see section 16	

## Adverse physicochemical, human health and environmental effects

Expert judgement and weight of evidence determination.

# 2.2. Label elements

Labelling according to Regulation (E	EC) No. 1272/2008 [CLP]
Hazard pictograms (CLP)	
	GHS05 GHS06 GHS08
Signal word (CLP)	: Danger
Hazard statements (CLP)	: H301 - Toxic if swallowed. H317 - May cause an allergic skin reaction. H318 - Causes serious eve damage

- H318 Causes serious eye damage.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H372 Causes damage to organs through prolonged or repeated exposure.

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Precautionary statements (CLP)	<ul> <li>P280 - Wear eye protection, protective clothing, protective gloves.</li> <li>P284 - respiratory protection.</li> </ul>
	P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
	P304 - IF INHALED:
	P314 - Get medical advice/attention if you feel unwell.
Labelling according to: exemption for inner packaging	where the contents do not exceed 10ml
Hazard pictograms (CLP)	
	GHS06 GHS08

# 2.3. Other hazards

## No additional information available

# SECTION 3: Composition/information on ingredients

# 3.1. Substances

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Capsaicin	-	≤ 100	Acute Tox. 3 (Oral), H301 (ATE=148,1 mg/kg bodyweight) Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT RE 1, H372
Full text of H- and EUH-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	: Immediately flush the contact area with plenty of water.
First-aid measures after inhalation	: Move to fresh air. Allow affected person to breathe fresh air. Immediate medical attention and special treatment, if necessary.
First-aid measures after skin contact	: Wipe off as much as possible (using a clean, soft, absorbent material). Wash with plenty of water/ Flush with lukewarm water for 15 minutes. Get medical advice if skin irritation persists.
First-aid measures after eye contact	: Rinse with water while holding the eyes wide open. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, consult an eye specialist.
First-aid measures after ingestion	: Rinse mouth. Immediately call a POISON CENTER/doctor. Do not induce vomiting. Prolonged medical observation may be indicated.
4.2. Most important symptoms and effects	s, both acute and delayed
Symptoms/effects	: Causes burns. Delayed adverse effects possible.
Symptoms/effects after inhalation	: Insufficient data available. May cause shortness of breath, tightness of the chest, a sore throat and cough.
Symptoms/effects after skin contact	: Insufficient data available. Redness, pain.
Symptoms/effects after eye contact	: Insufficient data available. Redness, pain.
Symptoms/effects after ingestion	: Burns to the gastric/intestinal mucosa.

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

Get medical advice/attention. If possible show this sheet, if not available show packaging or label.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Extinguishing blanket.
5.2. Special hazards arising from the su	ibstance or mixture
Fire hazard	: See Heading 2.2. Beware, risk of formation of toxic and corrosive gases.
5.3. Advice for firefighters	
Firefighting instructions	: Use extinguishing media appropriate for surrounding fire.
SECTION 6: Accidental release mea	isures
6.1. Personal precautions, protective ed	quipment and emergency procedures
General measures	: Avoid any direct contact with the product. Do not breathe dust/fume/gas/mist/vapours/spray.
6.1.1. For non-emergency personnel	
Emergency procedures	: Wear suitable protective clothing, gloves and eye or face protection.
6.1.2. For emergency responders	
Protective equipment	: See Section 8.
6.2. Environmental precautions	
No additional information available	
6.3. Methods and material for containm	ent and cleaning up
Methods for cleaning up	: Ensure waste is collected and contained. Clean thoroughly. Material should be handled with caution. In aqueous medium : Corrosive to eyes, respiratory system and skin. Wash the non-recoverable remainder with : Sodium hypochlorite solution.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: The attention of the user is drawn to the risks possibly incurred by using the product for any other purpose than that for which it was intended. In aqueous medium : Corrosive to eyes, respiratory system and skin.
Precautions for safe handling	: Material should be handled with caution. Avoid any direct contact with the product. Material should be handled in a laboratory hood whenever possible.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures.
7.2. Conditions for safe storage, including a	ny incompatibilities
Technical measures Storage conditions	: Comply with applicable regulations. : Store locked up.
7.3. Specific end use(s)	

See Heading 1.

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

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

## 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

**8.2. Exposure controls** 

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Keep in a well-ventilated room. Use only in a exhaust booth with integrated air filter. High efficiency particulate air filter (HEPA filter).

### 8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

### Eye protection: Safety glasses. DIN EN 166

# 8.2.2.2. Skin protection

#### Skin and body protection:

Use chemically protective clothing. DIN EN 13034

#### Hand protection:

Chemically resistant protective gloves. ISO 374-1

### 8.2.2.3. Respiratory protection

## **Respiratory protection:**

Dust production: dust mask with filter type P3. DIN EN 140 & 149. Liquid product : Aerosol mask. Wear breathing apparatus if exposed to vapours/dusts/aerosols

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

No additional information available

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state	: Solid	
Colour	: Not available	
Appearance	: Powder.	
Odour	: Not available	
Odour threshold	: Not available	
Melting point	: Not available	

Freezing point

Boiling point

Flammability

Explosive limits

: Not available

: Not available

: Not available

: Not applicable

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Lower explosion limit Upper explosion limit Flash point Auto-ignition temperature Decomposition temperature pH pH solution Viscosity, kinematic Solubility Partition coefficient n-octanol/water (Log Kow) Vapour pressure Vapour pressure at 50°C Density Relative density Relative vapour density at 20°C	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>113 °C</li> <li>Not applicable</li> <li>Not available</li> </ul>
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# 9.2. Other information

## 9.2.1. Information with regard to physical hazard classes

No additional information available

# 9.2.2. Other safety characteristics

No additional information available

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

Stable under normal conditions.

**10.2. Chemical stability** 

No additional information available

**10.3. Possibility of hazardous reactions** 

No additional information available

**10.4. Conditions to avoid** 

No additional information available

**10.5. Incompatible materials** 

None under normal use. See Section 7.

**10.6. Hazardous decomposition products** 

When heated to decomposition, emits dangerous fumes.

# SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008		
Acute toxicity (oral)	: Toxic if swallowed.	
Acute toxicity (dermal)	: Not classified	
Acute toxicity (inhalation)	: Not classified	
Capsaicin		
LD50 oral rat	50 – 300 mg/kg	
Skin corrosion/irritation	: Not classified	
Serious eye damage/irritation	: Causes serious eye damage.	

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Respiratory or skin sensitisation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified (Lack of data)
Carcinogenicity	: Not classified (Lack of data)
Reproductive toxicity	: Not classified (Further details: Acute toxicity)
STOT-single exposure	: Not classified
STOT-repeated exposure	: Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)

# 11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information	
12.1. Toxicity	
Hazardous to the aquatic environment, short-term : (acute)	Hazardous waste. Use suitable disposal containers. Not classified Not classified
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	
No additional information available	
12.6. Endocrine disrupting properties	
No additional information available	
12.7. Other adverse effects	
No additional information available	

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Regional legislation (waste) Product/Packaging disposal recommendations	<ul> <li>Dispose in a safe manner in accordance with local/national regulations.</li> <li>Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.</li> </ul>

n accordance with ADR / IMDG / IATA		
ADR	IMDG	ΙΑΤΑ
14.1. UN number or ID number		
UN 2811	UN 2811	UN 2811

**SECTION 14: Transport information** 

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ADR	IMDG	ΙΑΤΑ		
14.2. UN proper shipping name				
TOXIC SOLID, ORGANIC, N.O.S.	TOXIC SOLID, ORGANIC, N.O.S.	Toxic solid, organic, n.o.s.		
Transport document description		·		
UN 2811 TOXIC SOLID, ORGANIC, N.O.S., 6.1, III, (E)	UN 2811 TOXIC SOLID, ORGANIC, N.O.S., 6.1, III	UN 2811 Toxic solid, organic, n.o.s., 6.1, III		
14.3. Transport hazard class(es)				
6.1	6.1	6.1		
6	6	6		
14.4. Packing group				
111	111	III		
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**

Overland transport		
Classification code (ADR)	:	T2
Special provisions (ADR)	:	274, 614
Limited quantities (ADR)	:	5kg
Excepted quantities (ADR)	:	E1
Packing instructions (ADR)	:	P002, IBC08, LP02, R001
Mixed packing provisions (ADR)	:	MP10
Portable tank and bulk container instructions (ADR)	:	T1
Portable tank and bulk container special provisions	:	TP33
(ADR)		
Tank code (ADR)	:	SGAH, L4BH
Tank special provisions (ADR)	:	TU15, TE19
Vehicle for tank carriage	:	AT
Transport category (ADR)	:	2
Special provisions for carriage - Bulk (ADR)	:	VC1, VC2, AP7
Special provisions for carriage - Loading, unloading	:	CV13, CV28
and handling (ADR)		
Special provisions for carriage - Operation (ADR)	:	S9
Hazard identification number (Kemler No.)	:	60
Orange plates	:	60 2811
Tunnel restriction code (ADR)	:	E
Transport by sea		
Special provisions (IMDG)		223, 274
Limited quantities (IMDG)	÷	,
Excepted quantities (IMDG)	-	E1
Packing instructions (IMDG)	-	P002
IBC packing instructions (IMDG)		IBC08
IBC special provisions (IMDG)	:	B3
Tank instructions (IMDG)	:	T1
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Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-A
Stowage category (IMDG)	: A
Properties and observations (IMDG)	: Toxic if swallowed, by skin contact or by inhalation.
MFAG-No	: 154
Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y645
PCA limited quantity max net quantity (IATA)	: 10kg
PCA packing instructions (IATA)	: 670
PCA max net quantity (IATA)	: 100kg
CAO packing instructions (IATA)	: 677
CAO max net quantity (IATA)	: 200kg
Special provisions (IATA)	: A3, A5
ERG code (IATA)	: 6L

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

### 15.1.1. EU-Regulations

## **REACH Annex XVII (Restriction List)**

Not listed on REACH Annex XVII

### REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

### **REACH Candidate List (SVHC)**

Not listed on the REACH Candidate List

## **PIC Regulation (Prior Informed Consent)**

Not applicable.

### **POP Regulation (Persistent Organic Pollutants)**

Not applicable.

### Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

## **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

### **Drug Precursors Regulation (273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

### 15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

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SECTION 16: Other information		
Full text of H- and EUH-statements:		
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
H301	Toxic if swallowed.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
H372	Causes damage to organs through prolonged or repeated exposure.	
Resp. Sens. 1	Respiratory sensitisation, Category 1	
Skin Sens. 1	Skin sensitisation, Category 1	
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1	

Safety Data Sheet (SDS), EU

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