according to Regulation (EC) No 1907/2006

	according to Regulation (EC) No 1907/2006				
Revision date: 16.04.2021	Brightener for zinc elect Product code: 0149	r olyte Page 1 of			
SECTION 1: Identificati	ion of the substance/mixture and of the comp	any/undertaking			
1.1. Product identifier Brightener for zind	c electrolyte				
UFI:	NEN9-0E0D-V000-8Y9E				
1.2. Relevant identified us	ses of the substance or mixture and uses advised	<u>against</u>			
Use of the substance/ Electroplating	mixture				
1.3. Details of the supplie	er of the safety data sheet				
Company name: Street: Place:	MARAWE GmbH & Co. KG Donaustaufer Str. 378 - Gebäude 64 D-93055 Regensburg				
Telephone:	0941 / 29020439	Telefax: 0941 / 29020593			
e-mail:	info@marawe.de				
Contact person:	Dr. Peter Raster, Dr. Stefan Weiss, Dr. Jonas Mark				
e-mail:	info@marawe.de				
Internet:	www.marawe.de				
Hazard Statements May cause an aller	sensitisation: Skin Sens. 1 ::				
2.2. Label elements Regulation (EC) No. 127 Hazard components fo Benzalaceton Signal word: Pictograms:	/2/2008				
Hazard components for Benzalaceton Signal word: Pictograms: Hazard statements	72/2008 or labelling Warning				
Regulation (EC) No. 127 Hazard components for Benzalaceton Signal word: Pictograms: Hazard statements H317	72/2008 or labelling Warning The second seco				
Regulation (EC) No. 127 Hazard components for Benzalaceton Signal word: Pictograms: Hazard statements	72/2008 or labelling Warning Warning May cause an allergic skin reaction. May cause an allergic skin reaction. Ents Keep out of reach of children. Wear protective gloves/protective clothing/eye pr	rotection/face protection/hearing			
Regulation (EC) No. 127 Hazard components for Benzalaceton Signal word: Pictograms: Hazard statements H317 Precautionary statements P102 P280	72/2008 or labelling Warning Warning May cause an allergic skin reaction. May cause an allergic skin reaction. Ents Keep out of reach of children. Wear protective gloves/protective clothing/eye pr protection.	rotection/face protection/hearing			
Regulation (EC) No. 127 Hazard components for Benzalaceton Signal word: Pictograms: Hazard statements H317 Precautionary statement P102	72/2008 or labelling Warning Warning May cause an allergic skin reaction. May cause an allergic skin reaction. Ents Keep out of reach of children. Wear protective gloves/protective clothing/eye pr				
Regulation (EC) No. 127 Hazard components for Benzalaceton Signal word: Pictograms: Hazard statements H317 Precautionary statement P102 P280 P302+P352	72/2008 or labelling Warning Warning May cause an allergic skin reaction. May cause an allergic skin reaction. Keep out of reach of children. Wear protective gloves/protective clothing/eye pr protection. IF ON SKIN: Wash with plenty of water.	ce/attention.			
Regulation (EC) No. 127 Hazard components for Benzalaceton Signal word: Pictograms: Hazard statements H317 Precautionary statements P102 P280 P302+P352 P333+P313 P501	72/2008 or labelling Warning Warning May cause an allergic skin reaction. May cause an allergic skin reaction. Ents Keep out of reach of children. Wear protective gloves/protective clothing/eye pr protection. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice	ce/attention.			

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Hazardous components

CAS No	Chemical name		Quantity	
	EC No	Index No	REACH No	
	GHS Classification			
122-57-6	Benzalaceton		2,5 - 10 %	
	Skin Irrit. 2, Skin Sens. 1; H315 H317			

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

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

After contact with skin

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty 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

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

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 measures

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.

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6.3. Methods and material for containment and cleaning up

Other information

Absorb with liquid-binding material (e.g. 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.

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)

Electroplating

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
57-55-6	Propane-1,2-diol, particulates	-	10		TWA (8 h)	WEL

8.2. Exposure controls

Protective and hygiene measures

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 or drink.

Eye/face protection

Wear eye protection/face protection.

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

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical a	and chemical properties
Physical state: Colour:	Liquid
pH-Value (at 20 °C):	4,8
Changes in the physical state	
Melting point:	not determined
Boiling point or initial boiling point boiling range:	and not determined
Flash point:	not determined
Flammability	
Solid/liquid:	not applicable
Gas:	not applicable
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Self-ignition temperature Solid: Gas:	not applicable not applicable
Decomposition temperature:	not determined
Oxidizing properties Not oxidising.	
Vapour pressure:	not determined
Density:	not determined
Water solubility:	easily soluble
Solubility in other solvents not determined	
Partition coefficient n-octanol/wate	er: not determined
Relative vapour density:	not determined
Evaporation rate:	not determined
9.2. Other information	
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.

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10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

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

Acute toxicity

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

Irritation and corrosivity

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

Sensitising effects

May cause an allergic skin reaction. (Benzalaceton)

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.

Additional information on tests

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.

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.

12.7. 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. Dispose of waste according to applicable legislation.

Contaminated packaging

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

SECTION 14: Transport information

Land transport (ADR/RID)

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<u>14.1. UN number:</u>	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)				
<u>14.1. UN number:</u>	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)				
<u>14.1. UN number:</u>	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)				
<u>14.1. UN number:</u>	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 information available.				
14.7. Maritime transport in bulk according	to IMO instruments			
not applicable				
SECTION 15: Regulatory information				
15.1. Safety, health and environmental req	ulations/legislation specific for the substance or mixture			
EU regulatory information Restrictions on use (REACH, annex XVII	Ŋ.			
Entry 3	·).			
National regulatory information				
Employment restrictions:	Observe restrictions to employment for investige according to the linvesti	<u>^</u>		
Employment restrictions.	Observe restrictions to employment for juveniles according to the 'juvenil work protection guideline' (94/33/EC).	e		
Water hazard class (D):	1 - slightly hazardous to water			
Skin resorption/Sensitization:	Causes allergic hypersensitivity reactions.			
15.2. Chemical safety assessment				
	ostances in this mixture were not carried out.			
SECTION 40. Other 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) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals

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EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Skin Sens. 1; H317	Calculation method

Relevant H and EUH statements (number and full text)

Causes skin irritation. H315 H317

May cause an allergic skin reaction.

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.)