

**Safety Data Sheet**

according to UK REACH Regulation

**Gold electrolyte flash**

Revision date: 09.03.2023

Product code: 0119

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Gold electrolyte flash

UFI: 9VJM-DAXG-K000-8Y30

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

Galvanic gold-plating

**Uses advised against**

No further relevant information available.

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

Company name:	MARAWE GmbH & Co. KG	
Street:	Donaustauer Str. 378 - Gebäude 64	
Place:	D-93055 Regensburg	
Telephone:	+49 941 / 29020439	Telefax: +49 941 / 29020593
e-mail:	info@marawe.de	
Contact person:	Product safety department	
Internet:	www.marawe.de	

**1.4. Emergency telephone number:**+49 941 / 29020439,  
Mon-Thu 9:00 - 16:00; Fri 9:00 - 14:00**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****GB CLP Regulation**

Met. Corr. 1; H290  
Acute Tox. 4; H302  
Acute Tox. 4; H312  
Acute Tox. 4; H332  
Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

**2.2. Label elements****GB CLP Regulation****Hazard components for labelling**

phosphoric acid; orthophosphoric acid  
potassium tetracyanoaurate(III)

**Signal word:** Warning**Pictograms:****Hazard statements**

H290	May be corrosive to metals.
H302+H312+H332	Harmful if swallowed, in contact with skin or if inhaled.
H412	Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.

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P234	Keep only in original packaging.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P501	Dispose of contents/container to an appropriate recycling or disposal facility according to local/national regulations.

**Special labelling of certain mixtures**

EUH032	Contact with acids liberates very toxic gas.
EUH208	Contains cobalt(II) propionate. May produce an allergic reaction.

**SECTION 3: Composition/information on ingredients**
**3.2. Mixtures**
**Hazardous components**

CAS No	Chemical name	Quantity
	EC No	
	Index No	
	REACH No	
	Classification (GB CLP Regulation)	
7664-38-2	phosphoric acid; orthophosphoric acid	5 - < 10 %
	231-633-2	
	01-2119485924-24	
	Met. Corr. 1, Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1; H290 H302 H314 H318	
14263-59-3	potassium tetracyanoaurate(III)	< 1 %
	238-145-9	
	Met. Corr. 1, Acute Tox. 1, Acute Tox. 1, Acute Tox. 2, Skin Irrit. 2, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1; H290 H330 H310 H300 H315 H318 H400 H410 EUH032	
1560-69-6	cobalt(II) propionate	< 1 %
	216-333-1	
	Repr. 1B, Acute Tox. 4, Acute Tox. 4, Eye Irrit. 2, Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 2; H360Fd H332 H302 H319 H317 H400 H411	
79-09-4	propionic acid	< 1 %
	201-176-3	
	Flam. Liq. 3, Skin Corr. 1B, Eye Dam. 1, STOT SE 3; H226 H314 H318 H335	

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. Limits, M-factors and ATE	
7664-38-2	231-633-2	phosphoric acid; orthophosphoric acid	5 - < 10 %
		dermal: LD50 = 2740 mg/kg; oral: LD50 = 850 mg/kg Skin Corr. 1B; H314: >= 25 - 100 Skin Irrit. 2; H315: >= 10 - < 25 Eye Irrit. 2; H319: >= 10 - < 25	
14263-59-3	238-145-9	potassium tetracyanoaurate(III)	< 1 %
		inhalation: LC50 = 0,005 mg/l (dusts or mists); dermal: LD50 = 5 mg/kg; oral: LD50 = 5 mg/kg	
1560-69-6	216-333-1	cobalt(II) propionate	< 1 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); oral: ATE = 500 mg/kg	
79-09-4	201-176-3	propionic acid	< 1 %
		inhalation: LC50 = > 20 mg/l (vapours); dermal: LD50 = 3235 mg/kg; oral: LD50 = 3455,1 mg/kg Skin Corr. 1B; H314: >= 25 - 100 Skin Irrit. 2; H315: >= 10 - < 25 Eye Irrit. 2; H319: >= 10 - < 25 STOT SE 3; H335: >= 10 - 100	

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

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**General information**

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down. Be careful with contaminated clothes and shoes of the victim - they could still contain the product.

**After inhalation**

Remove person to fresh air and keep comfortable for breathing. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. Call a physician immediately.

**After contact with skin**

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. If irritation symptoms persist, consult a doctor.

**After contact with eyes**

After eye contact: Rinse immediately carefully and thoroughly with eye-bath or water. Consult an ophthalmologist.

**After ingestion**

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink 1 glass of water. Induce vomiting when the affected person is not unconscious. Call a physician immediately.

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

Dizziness, acceleration of the respiratory rate, feeling of being constricted and suffocated, nausea, Vomiting.

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

Treat symptomatically. The substance contains cyanide. 4-Dimethylaminophenole or thiosulfate can be used as antidot.

**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. Formation of hazardous gases/vapours possible during heating or in case of fire. Hydrocyanic acid (hydrocyanic acid).

**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 advice**

Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment. Keep unprotected persons away.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains. Inform the respective authorities if the product enters open water or sewage system.

**6.3. Methods and material for containment and cleaning up****For containment**

Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

**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.

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**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**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

**Advice on protection against fire and explosion**

Have respiratory protective equipment ready.

**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. 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.

**Further information on handling**

Wear suitable protective clothing and gloves.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaust at critical locations.  
Unsuitable container/equipment material: Metal.

**Hints on joint storage**

Do not store together with: Acid.

**Further information on storage conditions**

The regulations of the Ordinance on Hazardous Substances with its respective technical rules (TRGS 510) have to be respected.

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

Galvanic gold-plating

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
7664-38-2	Orthophosphoric acid	-	1		TWA (8 h)	WEL
		-	2		STEL (15 min)	WEL
79-09-4	Propionic acid	10	31		TWA (8 h)	WEL
		15	46		STEL (15 min)	WEL

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**DNEL/DMEL values**

CAS No	Substance		
DNEL type	Exposure route	Effect	Value
7664-38-2	phosphoric acid; orthophosphoric acid		
Worker DNEL, acute	inhalation	local	2 mg/m <sup>3</sup>
Worker DNEL, long-term	inhalation	local	1 mg/m <sup>3</sup>
Worker DNEL, long-term	inhalation	systemic	10,7 mg/m <sup>3</sup>
Consumer DNEL, long-term	inhalation	local	0,36 mg/m <sup>3</sup>
Consumer DNEL, long-term	inhalation	systemic	4,57 mg/m <sup>3</sup>
Consumer DNEL, long-term	dermal	systemic	0,1 mg/kg bw/day

**PNEC values**

CAS No	Substance	
Environmental compartment	Value	
79-09-4	propionic acid	
Freshwater	0,5 mg/l	
Marine water	0,05 mg/l	
Freshwater sediment	1,86 mg/kg	
Marine sediment	0,186 mg/kg	
Micro-organisms in sewage treatment plants (STP)	5 mg/l	
Soil	0,1258 mg/kg	

**8.2. Exposure controls**

**Appropriate engineering controls**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

**Individual protection measures, such as personal protective equipment**
**Eye/face protection**

Tight sealing protective goggles (DIN EN 166).

**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.

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

Physical state: Liquid

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Colour: light pink  
Odour: characteristic

**Changes in the physical state**

Melting point/freezing point: not determined  
Boiling point or initial boiling point and boiling range: > 100 °C  
Flash point: > 55 °C

**Flammability**

Solid/liquid: not applicable  
Gas: not applicable

**Explosive properties**

The product is not: Explosive.

Lower explosion limits: not determined  
Upper explosion limits: not determined  
Auto-ignition temperature: not determined  
Decomposition temperature: not determined  
pH-Value (at 25 °C): 1 - 2  
Water solubility: easily soluble

**Solubility in other solvents**

not determined

Partition coefficient n-octanol/water: not determined  
Vapour pressure: ~ 20 hPa  
(at 20 °C)  
Density (at 20 °C): 1,0 - 1,1 g/cm<sup>3</sup>  
Relative vapour density: not determined

**9.2. Other information****Information with regard to physical hazard classes**

Oxidizing properties  
The product is not: oxidising.

**Other safety characteristics**

Solid content: not determined  
Evaporation rate: not determined

**Further Information****SECTION 10: Stability and reactivity****10.1. Reactivity**

Corrosive to metals. Contact with acids liberates very toxic gas.

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

Can release hydrogen cyanide in case of strong acidification.

**10.4. Conditions to avoid**

Heat. Strong acid

**10.5. Incompatible materials**

Keep away from: Metal.

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**10.6. Hazardous decomposition products**

Hydrocyanic acid (hydrocyanic acid).

**SECTION 11: Toxicological information**
**11.1. Information on hazard classes as defined in GB CLP Regulation**
**Acute toxicity**

Harmful if swallowed.

Harmful in contact with skin.

Harmful if inhaled.

**ATEmix calculated**

ATE (oral) 948,8 mg/kg; ATE (dermal) 1020,4 mg/kg; ATE (inhalation dust/mist) 1,020 mg/l

CAS No	Chemical name					
	Exposure route	Dose	Species	Source	Method	
7664-38-2	phosphoric acid; orthophosphoric acid					
	oral	LD50 850 mg/kg	Rat	Manufacturer		
	dermal	LD50 2740 mg/kg	Rabbit	Manufacturer		
14263-59-3	potassium tetracyanoaurate(III)					
	oral	LD50 5 mg/kg		Manufacturer	Acute toxicity estimate (ATE)	
	dermal	LD50 5 mg/kg		Manufacturer	Acute toxicity estimate (ATE)	
	inhalation (4 h) dust/mist	LC50 0,005 mg/l		Manufacturer	Acute toxicity estimate (ATE)	
1560-69-6	cobalt(II) propionate					
	oral	ATE 500 mg/kg				
	inhalation vapour	ATE 11 mg/l				
	inhalation dust/mist	ATE 1,5 mg/l				
79-09-4	propionic acid					
	oral	LD50 3455,1 mg/kg	Rat (male & female)	Manufacturer	OECD 401	
	dermal	LD50 3235 mg/kg	rat, female	Manufacturer	OECD 402	
	inhalation (4 h) vapour	LC50 > 20 mg/l	Rat (male & female)	Manufacturer	OECD 403	

**Irritation and corrosivity**

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

**Sensitising effects**

Contains cobalt(II) propionate. May produce an allergic reaction.

**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.

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#### Further information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP]. Special hazards arising from the substance or mixture!

### SECTION 12: Ecological information

#### 12.1. Toxicity

Harmful to aquatic life with long lasting effects.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
7664-38-2	phosphoric acid; orthophosphoric acid					
	Acute fish toxicity	LC50 3 mg/l	96 h	Lepomis macrochirus (Bluegill)	Manufacturer	
	Acute algae toxicity	ErC50 mg/l >100	72 h	Desmodesmus subspicatus	Manufacturer	OECD 201
	Acute crustacea toxicity	EC50 mg/l >100	48 h	Daphnia magna (Big water flea)	Manufacturer	OECD 202
	Acute bacteria toxicity	(EC50 mg/l) >1000	3 h	Activated sludge	Manufacturer	OECD 209

#### 12.2. Persistence and degradability

The product has not been tested.

#### 12.3. Bioaccumulative potential

The product has not been tested.

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
79-09-4	propionic acid	0,25

#### 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

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

### 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. Dispose of waste according to applicable legislation.

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

110301 WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS; NON-FERROUS HYDRO-METALLURGY; sludges and solids from tempering processes; wastes containing cyanide; hazardous waste



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**List of Wastes Code - used product**

110301 WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS; NON-FERROUS HYDRO-METALLURGY; sludges and solids from tempering processes; wastes containing cyanide; hazardous waste

**Contaminated packaging**

Hazardous waste according to Directive 2008/98/EC (waste framework directive). Handle contaminated packages in the same way as the substance itself.

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

**14.1. UN number or ID number:** UN 1805  
**14.2. UN proper shipping name:** PHOSPHORIC ACID, SOLUTION  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** III  
 Hazard label: 8



Classification code: C1  
 Limited quantity: 5 L  
 Excepted quantity: E1  
 Transport category: 3  
 Hazard No: 80  
 Tunnel restriction code: E

**Inland waterways transport (ADN)**

**14.1. UN number or ID number:** UN 1805  
**14.2. UN proper shipping name:** PHOSPHORIC ACID, SOLUTION  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** III  
 Hazard label: 8



Classification code: C1  
 Limited quantity: 5 L  
 Excepted quantity: E1

**Marine transport (IMDG)**

**14.1. UN number or ID number:** UN 1805  
**14.2. UN proper shipping name:** PHOSPHORIC ACID SOLUTION  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** III  
 Hazard label: 8



Special Provisions: 223  
 Limited quantity: 5 L  
 Excepted quantity: E1  
 EmS: F-A, S-B  
 Segregation group: 1 - acids

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

<b>14.1. UN number or ID number:</b>	UN 1805
<b>14.2. UN proper shipping name:</b>	PHOSPHORIC ACID, SOLUTION
<b>14.3. Transport hazard class(es):</b>	8
<b>14.4. Packing group:</b>	III
Hazard label:	8



Special Provisions:	A3 A803
Limited quantity Passenger:	1 L
Passenger LQ:	Y841
Excepted quantity:	E1
IATA-packing instructions - Passenger:	852
IATA-max. quantity - Passenger:	5 L
IATA-packing instructions - Cargo:	856
IATA-max. quantity - Cargo:	60 L

#### 14.6. Special precautions for user

Warning: strongly corrosive.

#### 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

##### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3

##### National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D): 2 - obviously hazardous to water

Skin resorption/Sensitization: Permeates easily through outer skin and causes poisoning. Causes allergic hypersensitivity reactions.

#### 15.2. Chemical safety assessment

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

### 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

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%

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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  
 DNEL: Derived No Effect Level  
 DMEL: Derived Minimal Effect Level  
 PNEC: Predicted No Effect Concentration  
 ATE: Acute toxicity estimate  
 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  
 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)  
 EmS: Emergency Schedules  
 MFAG: Medical First Aid Guide  
 ICAO: International Civil Aviation Organization  
 MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
 IBC: Intermediate Bulk Container  
 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
Met. Corr. 1; H290	On basis of test data
Acute Tox. 4; H302	Calculation method
Acute Tox. 4; H312	Calculation method
Acute Tox. 4; H332	Calculation method
Aquatic Chronic 3; H412	Calculation method

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

H226	Flammable liquid and vapour.
H290	May be corrosive to metals.
H300	Fatal if swallowed.
H302	Harmful if swallowed.
H302+H312+H332	Harmful if swallowed, in contact with skin or if inhaled.
H310	Fatal in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H360Fd	May damage fertility. Suspected of damaging the unborn child.
H400	Very toxic to aquatic life.

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H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH032	Contact with acids liberates very toxic gas.
EUH208	Contains cobalt(II) propionate. May produce an allergic 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.

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