according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



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### Hydrochloric acid in ethanol 0,5 mol/l - 0,5 N, volumetric standard solution

article number: **3091** Version: **3.0 en** Replaces version of: 2022-03-14 Version: (2)

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

### 1.1 Product identifier

Identification of the substance

Article number

1.2

**Hydrochloric acid in ethanol** 0,5 mol/l - 0,5 N, volumetric standard solution

3091

**Registration number (REACH)** 

not relevant (mixture)

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

Relevant identified uses:

Uses advised against:

Laboratory and analytical use Laboratory chemical

Do not use for private purposes (household). Food, drink and animal feedingstuffs.

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

Carl Roth GmbH + Co. KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

**Telephone:**+49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 **e-mail:** sicherheit@carlroth.de **Website:** www.carlroth.de

Competent person responsible for the safety data Department Health, Safety and Environment sheet:

#### e-mail (competent person):

#### sicherheit@carlroth.de

#### 1.4 Emergency telephone number

Name	Street	Postal code/city	Telephone	Website
National Poisons Information Centre Beaumont Hospital	Beaumont Road	Dublin 9	+353 1 809 2166	https:// www.poisons.ie/

## **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

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

Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
2.6	Flammable liquid	2	Flam. Liq. 2	H225
2.16	Substance or mixture corrosive to metals	1	Met. Corr. 1	H290
3.3	Serious eye damage/eye irritation	2	Eye Irrit. 2	H319

For full text of abbreviations: see SECTION 16

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



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### **The most important adverse physicochemical, human health and environmental effects** The product is combustible and can be ignited by potential ignition sources.

2.2 Label elements

### Labelling according to Regulation (EC) No 1272/2008 (CLP)

Signal word Danger

GHS02, GHS05

**Pictograms** 



#### **Hazard statements**

H225	Highly flammable liquid and vapour
H290	May be corrosive to metals
H319	Causes serious eye irritation

#### **Precautionary statements**

#### **Precautionary statements - prevention**

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition
	sources. No smoking
P241	Use explosion-proof electrical/ventilating/lighting equipment
P280	Wear protective gloves/protective clothing/eye protection/face protection

#### **Precautionary statements - response**

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

#### **Precautionary statements - disposal**

P501 Dispose of contents/container in accordance with local/regional/national/international regulations

Labelling of packages where the contents do not exceed 125 ml Signal word: Danger

Symbol(s)



### 2.3 Other hazards

### Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of  $\ge 0,1\%$ .

#### **Endocrine disrupting properties**

Does not contain an endocrine disruptor (ED) at a concentration of  $\ge 0,1\%$ .

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



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

#### 3.1 **Substances**

not relevant (mixture)

#### 3.2 **Mixtures**

#### **Description of the mixture**

Name of sub- stance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
Ethanol	CAS No 64-17-5 EC No 200-578-6 Index No 603-002-00-5 REACH Reg. No 01-2119457610- 43-xxxx	80 - < 100	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319		GHS-HC
Hydrochloric acid %	CAS No 7647-01-0 EC No 231-595-7 Index No 017-002-01-X REACH Reg. No 01-2119484862- 27-xxxx	< 5	Met. Corr. 1 / H290 Skin Corr. 1B / H314 Eye Dam. 1 / H318 STOT SE 3 / H335		B GHS-HC IOELV

#### Notes

Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis. B:

GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/ 2008/EC, Annex VI) Substance with a community indicative occupational exposure limit value

IOELV:

Name of sub- stance	Identifier	Specific Conc. Limits	<b>M-Factors</b>	ATE	Exposure route
Hydrochloric acid %	CAS No 7647-01-0 EC No 231-595-7 Index No 017-002-01-X	Met. Corr. 1; H290: C ≥ 0,1 % Skin Corr. 1B; H314: C ≥ 25 % Skin Irrit. 2; H315: 10 % ≤ C < 25 % Eye Dam. 1; H318: C ≥ 25 % Eye Irrit. 2; H319: 10 % ≤ C < 25 % STOT SE 3; H335: C ≥ 10 %	-	-	

#### Remarks

For full text of abbreviations: see SECTION 16

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

#### 4.1 Description of first aid measures



#### **General notes**

Take off contaminated clothing.

#### **Following inhalation**

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

#### Following skin contact

Rinse skin with water/shower. In all cases of doubt, or when symptoms persist, seek medical advice.

#### Following eye contact

Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. In case of eye irritation consult an ophthalmologist.

#### **Following ingestion**

Rinse mouth. Call a doctor if you feel unwell.

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

Irritation, Nausea, Vomiting, Abdominal pain, Breathing difficulties, Vertigo, Drowsiness, Narcosis, Loss of righting reflex, and ataxia

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

none

## **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media



#### Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings! water spray, alcohol resistant foam, dry extinguishing powder, BC-powder, carbon dioxide (CO<sub>2</sub>)

#### Unsuitable extinguishing media

water jet

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

Combustible. In case of insufficient ventilation and/or in use, may form flammable/explosive vapourair mixture. Solvent vapours are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapours may form explosive mixtures with air.

#### Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO $_2$ ), May produce toxic fumes of carbon monoxide if burning.

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



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#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

## **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures



#### For non-emergency personnel

Avoid contact with skin, eyes and clothes. Do not breathe vapour/spray. Avoidance of ignition sources.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. The product is an acid. Before discharge into sewage plants the product normally needs to be neutralised.

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

#### Advice on how to contain a spill

Covering of drains.

#### Advice on how to clean up a spill

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

#### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

## **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Provision of sufficient ventilation.

Measures to prevent fire as well as aerosol and dust generation



Keep away from sources of ignition - No smoking.

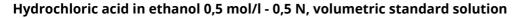
Take precautionary measures against static discharge. Due to danger of explosion, prevent leakage

of vapours into cellars, flues and ditches.

#### Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs. When using do not smoke.

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



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### 7.2 Conditions for safe storage, including any incompatibilities Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight.

Incompatible substances or mixtures

## Observe hints for combined storage.

## **Consideration of other advice:**

Ground/bond container and receiving equipment.

### **Ventilation requirements**

Use local and general ventilation.

### Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

#### 7.3 Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

#### 8.1 **Control parameters**

### National limit values

### **Occupational exposure limit values (Workplace Exposure Limits)**

Cou ntr y	Name of agent	CAS No	Identi- fier	TW A [pp m]	TWA [mg/ m³]	STE L [pp m]	STEL [mg/ m³]	Ceil ing- C [pp m]	Ceil- ing-C [mg/ m³]	Nota- tion	Source
EU	hydrogen chloride	7647-01- 0	IOELV	5	8	10	15				2000/39/ EC
IE	ethanol	64-17-5	OELV			1.00 0					S.I. No. 619 of 2001
IE	hydrogen chloride	7647-01- 0	OELV	5	8	10	15				S.I. No. 619 of 2001

Notation

Ceiling-C Ceiling value is a limit value above which exposure should not occur

Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified) Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified) STEL

TWA

Relevant DNELs of components								
Name of sub- stance	CAS No	End- point	Threshol d level	Protection goal, route of exposure	Used in	Exposure time		
Hydrochloric acid %	7647-01-0	DNEL	8 mg/m³	human, inhalat- ory	worker (industry)	chronic - local ef- fects		
Hydrochloric acid %	7647-01-0	DNEL	15 mg/m <sup>3</sup>	human, inhalat- ory	worker (industry)	acute - local ef- fects		



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#### 8.2 Exposure controls

#### Individual protection measures (personal protective equipment)

#### Eye/face protection



Use safety goggle with side protection.

#### Skin protection



#### hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. 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. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a consider-able reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

#### • type of material

Butyl caoutchouc (butyl rubber)

#### • material thickness

0,7 mm

#### • breakthrough times of the glove material

>480 minutes (permeation: level 6)

#### other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Flame-retardant protective clothing.

#### **Respiratory protection**



Respiratory protection necessary at: Aerosol or mist formation. Type: A (against organic gases and vapours with a boiling point of > 65 °C , colour code: Brown).

#### **Environmental exposure controls**

Keep away from drains, surface and ground water.



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

9.1	Information on basic physical and chemical properties						
	Physical state	liquid					
	Colour	colourless					
	Odour	like: - alcohol					
	Melting point/freezing point	not determined					
	Boiling point or initial boiling point and boiling range	78 °C					
	Flammability	flammable liquid in accordance with GHS criteri 3,4 vol% (LEL) - 27,7 vol% (UEL) (data apply to th main component)					
	Lower and upper explosion limit						
	Flash point	13 °C					
	Auto-ignition temperature	425 °C					
	Decomposition temperature	not relevant					
	pH (value)	<2 (20 °C)					
	Kinematic viscosity	not determined					
	Solubility(ies)						
	Water solubility	miscible in any proportion					
	Partition coefficient						
	Partition coefficient n-octanol/water (log value):	this information is not available					
	Vapour pressure	59 hPa at 20 °C					
	Density and/or relative density						
	Density	0,82 <sup>g</sup> / <sub>cm³</sub> at 20 °C					
	Relative vapour density	Information on this property is not available.					
	Particle characteristics	not relevant (liquid)					
	Other safety parameters						
	Oxidising properties	none					
9.2	Other information						
	Information with regard to physical hazard classes:						
	Corrosive to metals	category 1: corrosive to metals					
	Other safety characteristics:						
	Miscibility	completely miscible with water					



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Temperature class (EU, acc. to ATEX)

T2 Maximum permissible surface temperature on the equipment: 300°C

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

#### 10.1 Reactivity

The mixture contains reactive substance(s). Risk of ignition. Substance or mixture corrosive to metals. Vapours may form explosive mixtures with air.

#### If heated

Risk of ignition.

#### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

#### 10.3 Possibility of hazardous reactions

**Violent reaction with:** strong oxidiser, Alkali metals, Alkaline earth metal, Acetic anhydride, Peroxides, Phosphorus oxides (e.g. P2O5), Nitric acid, Strong alkali, Nitrate, Perchlorates, => Explosive properties

#### 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### 10.5 Incompatible materials

different metals

#### **10.6** Hazardous decomposition products

Hazardous combustion products: see section 5.

## **SECTION 11: Toxicological information**

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

Test data are not available for the complete mixture.

#### **Classification procedure**

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### Classification according to GHS (1272/2008/EC, CLP)

#### Acute toxicity

Shall not be classified as acutely toxic.

#### Acute toxicity of components

Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Ethanol	64-17-5	oral	LD50	10.470 <sup>mg</sup> / <sub>kg</sub>	rat
Ethanol	64-17-5	inhalation: va- pour	LC50	124,7 <sup>mg</sup> / <sub>l</sub> /4h	rat

#### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

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## Serious eye damage/eye irritation

Causes serious eye irritation.

#### Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

#### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

#### Carcinogenicity

Shall not be classified as carcinogenic.

#### **Reproductive toxicity**

Shall not be classified as a reproductive toxicant.

#### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

#### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

#### **Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

#### Symptoms related to the physical, chemical and toxicological characteristics

#### If swallowed

vomiting, abdominal pain, nausea, Causes damage to liver through prolonged or repeated exposure if swallowed, loss of righting reflex, and ataxia

#### • If in eyes

Causes serious eye irritation

#### • If inhaled

drowsiness, narcosis, vertigo, breathing difficulties, Inebriation

#### If on skin

Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation)

#### • Other information

none

#### **11.2 Endocrine disrupting properties**

Does not contain an endocrine disruptor (ED) at a concentration of  $\ge 0,1\%$ .

#### 11.3 Information on other hazards

There is no additional information.



according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



## Hydrochloric acid in ethanol 0,5 mol/l - 0,5 N, volumetric standard solution

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## **SECTION 12: Ecological information**

### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time
Ethanol	64-17-5	LC50	15.400 <sup>mg</sup> / <sub>l</sub>	fish	96 h
Ethanol	64-17-5	EC50	>10.000 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	48 h
Ethanol	64-17-5	ErC50	22.000 <sup>mg</sup> / <sub>l</sub>	algae	96 h

Aquatic toxicity (chronic) of components								
Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time			
Ethanol	64-17-5	LC50	1.806 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	10 d			
Ethanol	64-17-5	ErC50	675 <sup>mg</sup> / <sub>l</sub>	algae	4 d			

### 12.2 Persistence and degradability

Degradability of components						
Name of substance	CAS No	Process	Degrada- tion rate	Time	Method	Source
Ethanol	64-17-5	biotic/abiotic	94 %	d		
Ethanol	64-17-5	oxygen deple- tion	69 %	5 d		ECHA
Ethanol	64-17-5	oxygen deple- tion	84 %	10 d		ECHA
Ethanol	64-17-5	oxygen deple- tion	97 %	20 d		ECHA

### 12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components						
Name of substance	CAS No	BCF	Log KOW	BOD5/COD		
Ethanol	64-17-5		-0,31	0,6211		

#### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of  $\geq 0,1\%$ .

#### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\ge 0,1\%$ .

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



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#### 12.7 Other adverse effects

Data are not available.

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Sewage disposal-relevant information

Do not empty into drains.

#### Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

#### 13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

#### Properties of waste which render it hazardous

- HP 3 flammable
- HP 4 irritant skin irritation and eye damage

#### 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions. Non-contaminated packages may be recycled.

## **SECTION 14: Transport information**

#### 14.1 UN number or ID number

	ADRRID	UN 2924
	IMDG-Code	UN 2924
	ICAO-TI	UN 2924
14.2	UN proper shipping name	
	ADRRID	FLAMMABLE LIQUID, CORROSIVE, N.O.S.
	IMDG-Code	FLAMMABLE LIQUID, CORROSIVE, N.O.S.
	ICAO-TI	Flammable liquid, corrosive, n.o.s.
	Technical name (hazardous ingredients)	Ethanol, Hydrochloric acid %
14.3	Transport hazard class(es)	
	ADRRID	3 (8)
	IMDG-Code	3 (8)
	ICAO-TI	3 (8)

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14.4	Packing group	
	ADRRID	II
	IMDG-Code	II
	ICAO-TI	II
14.5	Environmental hazards	non-environmentally hazardous acc. to the dan- gerous goods regulations
14.6	Special precautions for user	
	Provisions for dangerous goods (ADR) should be co	omplied within the premises.
14.7	Maritime transport in bulk according to IMO ins	struments
	The cargo is not intended to be carried in bulk.	
14.8	Information for each of the UN Model Regulation	ons
	Agreement concerning the International Carria information	ge of Dangerous Goods by Road (ADR)Additional
	Proper shipping name	FLAMMABLE LIQUID, CORROSIVE, N.O.S.
	Particulars in the transport document	UN2924, FLAMMABLE LIQUID, CORROSIVE, N.O.S., (contains: Ethanol, Hydrochloric acid %), 3 (8), II, (D/E)
	Classification code	FC
	Danger label(s)	3+8
	Special provisions (SP)	274
	Excepted quantities (EQ)	E2
	Limited quantities (LQ)	1 L
	Transport category (TC)	2
	Tunnel restriction code (TRC)	D/E
	Hazard identification No	338
	Regulations concerning the International Carria information	age of Dangerous Goods by Rail (RID)Additional
	Classification code	FC
	Danger label(s)	3+8
	Special provisions (SP)	274
	Excepted quantities (EQ)	E2
	Limited quantities (LQ)	1 L

2

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Transport category (TC)

Hazard identification No

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International Maritime Dangerous Goods Code (IMDG) - Additional information					
Proper shipping name	FLAMMABLE LIQUID, CORROSIVE, N.O.S.				
Particulars in the shipper's declaration	UN2924, FLAMMABLE LIQUID, CORROSIVE, N.O.S., (contains: Ethanol, Hydrochloric acid %), 3 (8), II, 13°C c.c.				
Marine pollutant	-				
Danger label(s)	3+8				
Special provisions (SP)	274				
Excepted quantities (EQ)	E2				
Limited quantities (LQ)	1 L				
EmS	F-E, S-C				
Stowage category	В				
International Civil Aviation Organization (ICAO	-IATA/DGR) - Additional information				
Proper shipping name	Flammable liquid, corrosive, n.o.s.				
Particulars in the shipper's declaration	UN2924, Flammable liquid, corrosive, n.o.s., (con- tains: Ethanol, Hydrochloric acid %), 3 (8), II				
Danger label(s)	3+8				
Special provisions (SP)	A3				
Excepted quantities (EQ)	E2				
Limited quantities (LQ)	0,5 L				

## **SECTION 15: Regulatory information**

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

**Relevant provisions of the European Union (EU)** 

### **Restrictions according to REACH, Annex XVII**

ingerous substances with restrictions (REACH, Annex XVII)					
Name of substance	Name acc. to inventory	CAS No	Restriction	No	
Hydrochloric acid in ethanol	this product meets the criteria for classification in accordance with Reg- ulation No 1272/2008/EC		R3	3	
Ethanol	flammable / pyrophoric		R40	40	
Ethanol	substances in tattoo inks and perman- ent make-up		R75	75	
Hydrochloric acid %	substances in tattoo inks and perman- ent make-up		R75	75	

Legend

R3 1. Shall not be used in:

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



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#### Legend

R40

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,

- tricks and jokes,

- games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
2. Articles not complying with paragraph 1 shall not be placed on the market.
3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume,

or both, if they

– can be used as fuel in decorative oil lamps for supply to the general public, and – present an aspiration hazard and are labelled with H304.

4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation

(CEN). 5. Without prejudice to the implementation of other Union provisions relating to the classification, labelling and pack-aging of substances and mixtures, suppliers shall ensure, before the placing on the market, that the following require-ments are met:

ments are met:
(a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil - or even sucking the wick of lamps – may lead to life-threatening lung damage";
(b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter fluid may lead to life threatening lung damage';
(c) lamps oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.';
1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public or entertainment and decorative purposes such as the following:

for supply to the general public for entertainment and decorative purposes such as the following:

- metallic glitter intended mainly for decoration,

artificial snow and frost,
'whoopee' cushions,

silly string aerosols,
 imitation excrement,

- horns for parties,

- decorative flakes and foams,

- artificial cobwebs

stink bombs.
Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with: 'For professional users only'.

By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/324/EEC (2).
 The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



## Hydrochloric acid in ethanol 0,5 mol/l - 0,5 N, volumetric standard solution

## article number: 3091

<ul> <li>1. Shall not be placed on the market in mixtures for use for stationing purposes, and mixtures containing any such subscress shall not be used for stationing purposes, and refusion is or and present in the following dircumstances.</li> <li>1. Shall not be placed on the market in mixtures for use for station is or and present in the following dircumstances.</li> <li>1. B or 2, or greater than 0,0005 % by weight:</li> <li>(b) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as reproductive toxicant equal to or greater than 0,0007 % by weight:</li> <li>(c) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as since spreader in the mixture in a concentration equal to or greater than 0,001 % by weight:</li> <li>(c) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin corrosse category 1, 1, 8 or 10 or substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin corrosse category 1, 1, 18 or 10 or substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin corrosse category 1, 1, 18 or 10 or substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin corrosse category 1, 1, 18 or 10 or substance listen as concentration equal to or greater than 0,000 % by weight:</li> <li>(d) On the case of a substance listen classified in Part 3 of Annex VI to Regulation (EC) No 1222/2009 (*1), the substance is present in the mixture in a concentration equal to or greater than 0,0000 % by weight:</li> <li>(e) In the case of a substance listen classified in Column 1 (Not 1222/2009 (*1), the substance is present in the mixture in a concentration equal to or greater than 0,0000 % by weight:</li> <li>(f) Not to be used in expendix 12 or greater than 0,0000 % by weight:</li> <li>(f) The case of a substance (laster than 0,0000 % by weight:</li> <li>(f) The case of a substance (laster than 0,0</li></ul>	Legen	d
are present in the following circumstances: (a) In the case of a substance dissified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as carcinogen category h, the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as carcinogen category (b) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as stin sensitistor cat- cetogory 1, 1A or 1B, the substance is present in the mixture in a concentration equal to or greater than 0.001 % by weight. (c) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as stin sensitistor cat- egory 1, 1A or 1B, the substance is present in the mixture in a concentration equal to or greater than 0.001 % by weight. (d) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as stin consister cat- substance is present in the mixture in a concentration equal to or greater than: (i) 0.1 % by weight, if all other cases? (ii) 0.1 % by explicit, all other cases? (iii) 0.1 % by explicit. (iii) The case of a substance for which a condition of one or more of the following kinds is specified in column g (Product type, Body parts) of the table in Annex. V to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration, on a or greater than 0.0005 % by weight: (iii) "Not to be used in products applied on mucus membranes"; (iii) "Not to be used in explicits applied on mucus membranes"; (iii) "Not to be used in explicits applied on the case of a substance for which a condition is specified in column f(Maximum concentration in ready for use (iii) in the case of a substance (an weight) is a specified in column f(Maximum concentration in ready for use (iii) in the case of a substance. (iii) the case of a substance (an weight) is a spe	-	1. Shall not be placed on the market in mixtures for use for tattooing purposes, and mixtures containing any such sub-
<ul> <li>(a) In the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as carcinogen category IA. 18 for 2, or green a substance is present in the mixture in a concentration of the substance of a substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight:</li> <li>(c) In the case of a substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight:</li> <li>(d) In the case of a substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight:</li> <li>(e) In the case of a substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight:</li> <li>(f) In the case of a substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight:</li> <li>(g) In the case of a substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight:</li> <li>(h) O1 % by weight, in all other cases;</li> <li>(e) In the case of a substance is present in the equal to 0 or greater than 0,001 % by weight;</li> <li>(f) In the case of a substance is the or greater than 0,000 % by weight;</li> <li>(g) In the case of a substance is the or greater than 0,000 % by weight;</li> <li>(h) O1 % by weight; in all other cases;</li> <li>(f) In the case of a substance is the mixture in a concentration equal to or greater than 0,000 % by weight;</li> <li>(f) The case of a substance is the mixture in a concentration equal to a greater than 0,000 % by weight;</li> <li>(f) The case of a substance is present in the mixture in a concentration equal to a greater than 0,000 % by weight;</li> <li>(f) The case of a substance for which a condition is specified in column 1 (Maximum concentration in ready for use preparation) or column i (Other) of the table in Annex VI to Regulation (EC) No 1223/2009; the substance is present in the mixture in a concentration in ready for use preparation or substance is none other way, that does not</li></ul>		
equal to or greater than 0.0005 % by weight: (b) in the case of a substance dispersent in the mixture in a concentration equal to or greater than 0.001 % by weight: (c) in the case of a substance dispersent in the mixture in a concentration equal to or greater than 0.001 % by weight: (c) in the case of a substance dispersent in the mixture in a concentration equal to or greater than 0.001 % by weight: (c) in the case of a substance dispersent in the mixture in a concentration equal to or greater than 0.001 % by weight: (c) in the case of a substance dispersent in the mixture in a concentration equal to a City 222/208 as skin consist equal to a first of the case of a substance dispersent in the mixture in a concentration equal to a greater than (i) 1, 1 % by weight: if the substance is used solely as a pH regulator. (f) (i) 1 weight: if the substance is used solely as a pH regulator. (f) (i) 1 weight: if the substance is used solely as a pH regulator. (f) (i) 1 weight: if the substance is used solely as a pH regulator. (f) (i) 1 weight: if the substance is used solely as a pH regulator. (f) (i) 1 weight: if the substance is used solely as a pH regulator. (f) (i) the case of a substance for which a condition of one or more the following kinds is specified in column g (froduct 1) weight: if the substance is present in the mixture in a concentration or or greater than 0.00005 % by weight: (ii) "Not to be used in products applied on mucous membranes"; (iii) "Not to be used in products applied on mucous membranes"; (iii) "Not to be used in products applied on mucous membranes"; (iii) "Not to be used in products applied on mucous membranes"; (iii) "Not to be used in products applied on mucous membranes"; (iii) "Not to be used in products applied on mucous membranes"; (iii) "Not to be used in products applied on the condition specified in column 1 (Maximum concentration on the concentration on is specified in column 1 (Maximum concentration on concentration on is specified in column 1 (Maximum		(a) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as carcinogen category
<ul> <li>category 1A, 18 or 2, the substance is present in the mixture in a Concentration equal to or greater than 0,001 % by weight:</li> <li>(c) In th X or 1B, the substance classified in Part 3 of Annex VI to Regulation (EC) No 12272/008 as sith sensitiser category 1, 1A, 18 or 1C or skin intractatogory 2, or a serous eye damage category 1 or eye initiant category 2, or a serous eye damage category 1 or eye initiant category 2, or a serous eye damage category 1 or eye initiant category 2, or a serous eye damage category 1 or eye initiant category 2, or a serous eye damage category 1 or eye initiant category 2, or a serous eye damage category 1 or eye initiant category 2, or a serous eye damage category 1 or eye initiant category 2, or a serous eye damage category 1 or eye initiant category 2, or a substance is present in the mixture in a concentration equal to or greater than. (00005 % by weight:</li> <li>(i) 0.01 % by weight, in all other cases;</li> <li>(ii) Not to be used in products applied on muccus membranes?;</li> <li>(iii) Not to be used in products, condition is specified in column 1 (Maximum concentration equal to or greater than 0,0005 % by weight:</li> <li>(i) Not to be used in products, condition is specified in column 1 the mixture in a concentration equal to or greater than 0,0005 % by weight:</li> <li>(i) Not to be used in eye products?;</li> <li>(ii) Not to be used in approduct applied on muccus membranes?;</li> <li>(iii) Not to be used in appendix 15 to this Annex V to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration, or in some other way, that does not accord with the conditions specified in column; (h) in the case of a substance is opendix.</li> <li>(iii) Not to be used in eye products?;</li> <li>(iii) Not to be used in eye products.</li> <li>(iii) Appendix 1 fails within more than early for use present in the mixture in a concentration, or in some other way, that does not accord with the conditions specified in column; the mixture in a concentratio</li></ul>		equal to or greater than 0,00005 % by weight;
<ul> <li>(c) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin sensitiser category 1, 1A, 16 or 1C or skin intract category 2, or a serious eye damage category 1 or eye inritant category 2, or a serious eye damage category 1 or eye inritant category 2, or a serious eye damage category 1 or eye inritant category 2, we applied to a substance is present in the mixture in a concentration equal to or greater than.</li> <li>(i) 0.1 % by weight, the substance is used solely as a pH regulator;</li> <li>(ii) 0.1 % by weight, the substance is used solely as a pH regulator;</li> <li>(ii) 0.1 % by weight, and under cate;</li> <li>(iii) 0.1 % by weight, and under cate;</li> <li>(iiii) 0.1 % by weight;</li> <li>(iii) 0.1 % by weight;</li> <li>(iiii) 0.1 % by weight;</li> <li>(iii) 0.1 % by weight;</li> <li>(iiii) 0.1 % by weight;</li> <li>(iiii) 0.1 % by weight;</li> <li>(iiii) 0.1 % by the categories of a substance for which a condition is specified in column h (Maximum concentration in ready for use a substance for which a condition is specified in column h (Maximum concentration in ready for use for a substance for which a condition is specified in column h (Maximum concentration in ready for use a substance for which a condition is specified in column h (Maximum concentration in ready for use a substance for which a condition is specified in column h (Maximum concentration in ready for use a substance in the concentration limit specified for that substance in the mixture in a concentration in the concentration limit specified for that substance in the mixture in a concentration on the column;</li> <li>(iii) 10 the case of a substance for the column; for that dows in proteces of the sentry weight; a substance for the pontry supreser mant</li></ul>		category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by
<ul> <li>(d) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin corrosive category 1, nr, 18 or 1C or skin intratin classory 2, or as serious equates of the substance is present in the mixture in a concentration equal to or greater than:</li> <li>(i) Out % viewpill, if the all barries is a concentration equal to a greater than:</li> <li>(ii) Out % viewpill, if the all barries is a concentration equal to a greater than.</li> <li>(ii) Out % viewpill, if the all barries is a concentration equal to a greater than 0,0005 % by weight;</li> <li>(ii) In the case of a substance listed in Annex II to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration equal to a greater than 0,0005 % by weight;</li> <li>(iii) "Not to be used in products applied on muccus membranes";</li> <li>(iii) Thot to be used in products applied on muccus membranes;</li> <li>(iii) Thot to be used in products;</li> <li>(iii) Thot to be used in products applied on muccus membranes;</li> <li>(iii) Thot to a substance is or which a condition is specified in column h (Maximum concentration in ready for use preparation) or column i) (Other) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration in the substance is a substance in a concentration limit specified for that substance in products;</li> <li>(i) The case of a substance is reading in approace is a present in the mixture in a concentration limit specified for that substance is present in the mixture in the appendix.</li> <li>(i) The case of a substance is present in the provide is a present in the mixture in a person's kin, muccus membrane or eyeball, by any process or procedure (including procedures commonly referred to a permanent make up, common incredit tattoing increo biading and micro-pignentation, with the aim of monthy referred to a permanent make up, common incredit tattoing and micro-pignentation, with the aim of a substance is a permanent make</li></ul>		(c) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin sensitiser cat- egory 1, 1A or 1B, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by
<ul> <li>(e) in the case of a substance listed in Annex II to Regulation (EC) No 1223/2009 (*1), the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight:</li> <li>(f) in the case of a substance for which a condition of one or more of the following kinds is specified in column g (Product type, Body parts) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration on greater than 0,00005 % by weight:</li> <li>(ii) "Not to be used in products";</li> <li>(g) in the case of a substance for which a condition is specified in column h (Maximum concentration in ready for use preparation) or column i (Other) of the table in Annex. IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration, or in some other way, that does not accord with the condition specified in that column; (h) in the case of a substance listed in Appendix 13 to this Annex, the substance is present in the mixture in a concentration or proves of this entry use of a mixture "for tabloing purposes" means injection of introduction of the mixture in a person's skin, mucous membrane or eyebal, by any process or procedure (including procedures commonly referred to as personent make-up, consentic tatolong, micro-blaiding and micro-pigmentation), with the aim of making a mark or design on his or her body.</li> <li>3. If a substance listed in Appendix 13 falls within more than one of points (a) to (g) of paragraph 1, the strictest concentration limit laid down in the points in question shall apply to that substance.</li> <li>4. By way of derogation, paragraph 1 shall not apply to the following substance suntil 4 January 2023: (a) Pigment Biue 153 (CT / A160, EC No 225-565 / CS No 1328-53-6).</li> <li>5. If Part 3 of Annex V1 to Regulation (EC) No 1222/2008 is amended after 4 January 2021 to classify or such that the substance. The down is point (C) No 1222/2008 is amended after 4 January 2021 to classify a substance such t</li></ul>		(d) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin corrosive cat- egory 1, 1A, 1B or 1C or skin irritant category 2, or as serious eye damage category 1 or eye irritant category 2, the substance is present in the mixture in a concentration equal to or greater than: (i) 0,1 % by weight, if the substance is used solely as a pH regulator;
<ul> <li>(ii) "Not to be used in eye products?;</li> <li>(iii) "Not to be used in eye products?;</li> <li>(ii) The case of a substance for which a condition is specified in clum h (Maximum concentration in ready for use preparation) or column (Cher) of the table in Annex V to Regulation (EC) No 1223/2003, the substance is present in the mixture in a concentration, or in some other way, that does not accord with the condition specified in that column; (h) in the case of a substance list the notpending 13 to this substance, but moduling procedures commonly referred to as permanent make-up, cosmetic tattooing, micro-blading and micro-pigmentation), with the aim of making a mark or design on his or her body.</li> <li>3. If a substance not listed in Appendix 13 falls within more than one of points (a) to (g) of paragraph 1, the strictest concentration limit laid down in point (h) of paragraph 1, the strictest concentration limit laid down in point (h) of paragraph 1, the strictest concentration limit laid down in point (h) of paragraph 1, the strictest concentration limit laid down in point (h) of paragraph 1 (h) and paragraph 1 (h) (C) (C) (C) or (10 (c) paragraph 1, the strictest concentration limit laid down in point (h) of paragraph 1 (h) and paragraph 1 (h) (C) (C) (C) (C) (C) (C) (C) paragraph 1 (h) and paragraph 1 (h) (C) (C) (C) (C) (C) (C) (C) (C) paragraph 1 (h) and paragraph 1 (h) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C</li></ul>		(e) in the case of a substance listed in Annex II to Regulation (EC) No 1223/2009 (*1), the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight; (f) in the case of a substance for which a condition of one or more of the following kinds is specified in column g (Product type, Body parts) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight:
<ul> <li>(g) in the case of a substance for which a condition is specified in column h (Maximum concentration in ready for use preparation) or column i (Diter) of the table in Annex V to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration qual to or greater than the concentration limit specified for that substance in that Appendix.</li> <li>2. For the purposes of this entry use of a mixture "for tablosing procedure science in the mixture in a concentration in the actioning mixtore", for tablosing procedures commonly referred to as permanent make-up, cosmetic tatiooing, micro-blading and micro-prigmentation), with the aim of monthy referred to as permanent make-up, cosmetic tatiooing, micro-blading and micro-prigmentation), with the aim of a first and the mixture in the oncentration in the down in the points in question shall apply to that substance. If a substance itsel in Appendix 13 falls within more than one of points (a) to (g) of paragraph 1, the strictest concentration limit liad down in the points in question shall apply to that substance. If a substance itsel in Appendix 13 falls within one or more of points (a) to (g) of paragraph 1, the substance.</li> <li>4. By way of derogation, paragraph 1 shall not tapply to the following substances until 4 January 2023: (a) Pigment Bite 153: (17.1460, EC No 215-524-7, CAS No 1328-53-63).</li> <li>5. If Part 3 of Annex VI to Regulation (EC) No 1222/2008 is amended after 4 January 2021 to classify or such that it the neglation (EC) No 1222/2008 is amended after 4 January 2021 to classify or such that it the normal N or Regulation (EC) No 12223/2009 is amended after 4 January 2021 to classify or such that it the falls within a different one of those points from the one within which it fell previously, and the date of application of that new or revised classification is after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, or such that the substance. The date mendment shall, for the purposes</li></ul>		
preparation) or column i (Other) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration print specified for that substance in that Appendix. 2. For the purposes of this entry use of a mixture "for tattooing purposes" means injection or introduction of the mixture into a person's skin, mucous membrane or eyeball, by any process or procedure (including procedures commonly referred to as permanent make-up, cosmetic tattooing, micro-blading and micro-pigmentation), with the aim of making a mark or design on his or her body. 3. If a substance not listed in Appendix 13 falls within more than one of points (a) to (g) of paragraph 1, the strictest concentration limit laid down in the points in question shall apply to that substance. If a substance listed in Appendix 13 falls within more than one of points (a) to (g) of paragraph 1, the strictest concentration limit laid down in the points (a) to (g) of paragraph 1, the strictest concentration limit laid down in the points (a) to (g) of paragraph 1, the strictest concentration limit laid down in bet points (a) to (g) of paragraph 1, the concentration limit laid down in point (b) of paragraph 1, the concentration limit laid down in point (h) of a By way of derogation, paragraph 1 shall not apply to the following substances until 4 January 2023; (a) Pigment Blue 53 (C) 74160, EC No 215-542-7, CAS No 147-14-89; (b) (c) or (d) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the date of application of that new or revised classification. 6. If Annex II or Annex IV to Regulation (EC) No 1223/2009 is amended after 4 January 2021 to list or change the listing of a substance such that the substance then becomes caught by point (e), (f) or (g) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the date falling 14 or (s) the sat		
<ul> <li>3. If a substance not listed in Appendix 13 falls within more than one of points (a) to (g) of paragraph 1, the strictest concentration limit laid down in points in question shall apply to that substance. If a substance listed in Appendix 13 also falls within one or more of points (a) to (g) of paragraph 1, the concentration limit laid down in point (h) of paragraph 1 shall apply to that substance. If a substance suntil 4 January 2023: (a) Pigment Blue 153: (174160, EC No 205-685-1, CAS No 1474-14-8);</li> <li>(b) Pigment Green 7 (CI 74260, EC No 205-524-7, CAS No 1328-53-6).</li> <li>5. If Part 3 of Annex VI to Regulation (EC) No 1272/2008 is amended after 4 January 2021 to classify or re-classify a substance such that the substance then becomes caught by point (a), (b), (c) or (d) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the date of application of that new or revised classification is after the date referred to in paragraph 1 or, as the case may be, paragraph 1 of this entry. IN to Regulation (EC) No 12723/2009 is amended after 4 January 2021 to list or change the listing of a substance such that the substance then becomes caught by point (a), (b) or (g) of paragraph 1 of this entry, or such that then falls within a different one of those points from the one within which it fell previously, and the amendment takes effect after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, or such that then folls within a different one of those points from the one within which it fell previously, and the amendment takes effect after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the amendment takes effect after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, or such that it then fall</li></ul>		preparation) or column i (Other) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration, or in some other way, that does not accord with the condition specified in that column; (h) in the case of a substance listed in Appendix 13 to this Annex, the substance is present in the mixture in a concen- tration equal to or greater than the concentration limit specified for that substance in that Appendix. 2. For the purposes of this entry use of a mixture "for tattooing purposes" means injection or introduction of the mix- ture into a person's skin, mucous membrane or eyeball, by any process or procedure (including procedures com- monly referred to as permanent make-up, cosmetic tattooing, micro-blading and micro-pigmentation), with the aim of
<ul> <li>13 also falls within one or more of points (a) to (g) of paragraph 1, the concentration limit laid down in point (h) of paragraph 1 shall apply to that substance.</li> <li>4. By way of derogation, paragraph 1 shall not apply to the following substances until 4 January 2023: (a) Pigment Biue 15.3 (Cl 7416). EC No 205-685-1, CAS No 147-14-8);</li> <li>(b) Pigment Green 7 (Cl 74260, EC No 215-524-7, CAS No 1328-53-6).</li> <li>5. If Part 3 of Annex VI to Regulation (EC) No 1272/2008 is amended after 4 January 2021 to classify or re-classify a substance such that the substance then becomes caught by point (a), (b), (c) or (d) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the date of application of that new or revised classification is after the date referred to in paragraph 1 or, as the case may be, paragraph 1 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect on the date of application of that new or revised classification.</li> <li>6. If Annex II or Annex N to Regulation (EC) No 1223/2009 is amended after 4 January 2021 to list or change the listing of a substance such that the substance then becomes caught by point (a), (f) or (g) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which if fell previously, and the date falling 18 months after entry into force of the act by which that amendment was made.</li> <li>7. Suppliers placing a mixture on the market for use for tattooing purposes shall ensure that, after 4 January 2022, the mixture is marked with the following information:</li> <li>(a) the statement "Mixture for use in tattoos or permanent make-up";</li> <li>(b) a reference number to uniquely identify the batch;</li> <li>(c) the list of ingredients in accordance with the nomenclature established in the glossary of common ingredient name, purties shall not be reg</li></ul>		3. If a substance not listed in Appendix 13 falls within more than one of points (a) to (g) of paragraph 1, the strictest
<ul> <li>4. By Way of derogation, paragraph 1 shall not apply to the following substances until 4 January 2023:</li> <li>(a) Pigment Blue 15:3 (Cl 7416). EC No 205-685-1, CAS No 147-14-8);</li> <li>(b) Pigment Green 7 (Cl 74260, EC No 215-524-7, CAS No 1328-53-6).</li> <li>5. If Part 3 of Annex VI to Regulation (EC) No 1272/2008 is amended after 4 January 2021 to classify or re-classify a substance such that the substance then becomes caught by point (a), (b), (c) or (d) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the date of application of that new or revised classifications.</li> <li>6. If Annex II or Annex IV to Regulation of that new or revised classification.</li> <li>6. If Annex II or Annex IV to Regulation (EC) No 1223/2009 is amended after 4 January 2021 to list or change the listing of a substance such that the substance then becomes caught by point (a), (f) or (g) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the amendment takes effect after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, or such that it then falls within a different or use of the act by which that substance, be treated as taking effect from the date falling 18 months after entry into force of the act by which that substance, be treated as taking effect from the date falling 18 months after entry into force of the act by which that amendment was made.</li> <li>7. Suppliers placing a mixture on the market for use for tattooing purposes shall ensure that, after 4 January 2022, the mixture is marked with the following information:</li> <li>(a) the statement "Mixture for use in tattoos or permanent make-up";</li> <li>(b) a reference number to uniquely identify the batch;</li> <li>(c) the list of ingredients in accordance with the nomenclature established in the glossary of common ingredient name, spurs</li></ul>		13 also falls within one or more of points (a) to (g) of paragraph 1, the concentration limit laid down in point (h) of
<ul> <li>(a) Pigment Green 7 (CI 74260, EC No 205-685-1; CAS No 147-148);</li> <li>(b) Pigment Green 7 (CI 74260, EC No 215-5247, CAS No 1328-63-6).</li> <li>5. If Part 3 of Annex VI to Regulation (EC) No 1272/2008 is amended after 4 January 2021 to classify or re-classify a substance such that the substance then becomes caught by point (a), (b), (c) or (d) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the date of application of that new or revised classification is after the date referred to in paragraph 1 or, as the case may be, paragraph 1 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect on the date of application of that new or revised classification.</li> <li>6. If Annex II or Annex IV to Regulation (EC) No 1223/2009 is amended after 4 January 2021 to list or change the listing of a substance such that the substance then becomes caught by point (e), (f) or (g) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the amendment takes effect after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, it at amendment takes effect after the date referred to by which that amendment was made.</li> <li>7. Suppliers placing a mixture on the market for use for tattooing purposes shall ensure that, after 4 January 2022, the mixture is marked with the following information:</li> <li>(a) the statement "Mixture for use in tattoos or permanent make-up";</li> <li>(b) a reference number to unique) identify the batch;</li> <li>(c) the list of ingredients in accordance with the nomenclature established in the glossary of common ingredient names pursuant to Article 33 of Regulation (EC) No 1223/2009, or in the absence of a common ingredient means any substance added during the process of formulation and present in the mixture for</li></ul>		
<ul> <li>5. If Part 3 of Annex VI to Regulation (EC) No 1272/2008 is amended after 4 January 2021 to classify or re-classify a substance such that the substance then becomes caught by point (a). (b). (c) or (d) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the date of application of that new or revised classification is after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect on the date of application of that new or revised classification.</li> <li>6. If Annex II or Annex IV to Regulation (EC) No 1223/2009 is amended after 4 January 2021 to list or change the listing of a substance such that the substance then becomes caught by point (e), (f) or (g) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the amendment takes effect after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect from the date falling 18 months after entry into force of the act by which that amendment was made.</li> <li>7. Suppliers placing a mixture on the market for use for tattooing purposes shall ensure that, after 4 January 2022, the mixture is marked with the following information:</li> <li>(a) the statement "Mixture for use in tattoos or permanent make-up";</li> <li>(b) a reference number to uniquely identify the batch;</li> <li>(c) the list of ingredients in accordance with the nomenclature established in the glossary of common ingredient name, the IUPAC name, In the absence of a common ingredient mame, the IUPAC name. In the absence of a common ingredient mame, previse shall not be regarded as ingredients. If the name of substance, used as ingredient within</li></ul>		(a) Pigment Blue 15:3 (CI 74160, EC No 205-685-1, CAS No 147-14-8),
that it then falls within a different one of those points from the one within which it fell previously, and the date of ap- plication of that new or revised classification is after the date referred to in paragraph 1 or, as the case may be, para- graph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect on the date of application of that new or revised classification. 6. If Annex II or Annex IV to Regulation (EC) No 1223/2009 is amended after 4 January 2021 to list or change the listing of a substance such that the substance then becomes caught by point (e), (f) or (g) of paragraph 1 of this entry, such that it then falls within a different one of those points from the one within which it fell previously, and the amendment takes effect after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect from the date falling 18 months after entry into force of the act by which that amendment was made. 7. Suppliers placing a mixture on the market for use for tattooing purposes shall ensure that, after 4 January 2022, the mixture is marked with the following information: (a) the statement "Mixture for use in tattoos or permanent make-up"; (b) a reference number to uniquely identify the batch; (c) the list of ingredients in accordance with the nomenclature established in the glossary of common ingredient name, the IUPAC name. In the absence of a common ingredient name or IUPAC name, the CAS and EC number. Ingredient's shall be listed in descending order by weight or volume of the ingredients at the time of formulation. "Ingredient" means any substance added during the process of formulation and present in the mixture for use for tattooing purposes. Im- purities shall not be regarded as ingredients. If the name of a substance, used as ingredient within the meaning of this entry, is already required to be stated		5. If Part 3 of Annex VI to Regulation (EC) No 1272/2008 is amended after 4 January 2021 to classify or re-classify a sub-
<ul> <li>plication of that new or revised classification is after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect on the date of application of that new or revised classification.</li> <li>6. If Annex II or Annex IV to Regulation (EC) No 1223/2009 is amended after 4 January 2021 to list or change the listing of a substance such that the substance then becomes caught by point (e), (f) or (g) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the amendment takes effect after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect from the date falling 18 months after entry into force of the act by which that amendment was made.</li> <li>7. Suppliers placing a mixture on the market for use for tattooing purposes shall ensure that, after 4 January 2022, the mixture is marked with the following information:</li> <li>(a) the statement "Mixture for use in tattoos or permanent make-up";</li> <li>(b) a reference number to uniquely identify the batch;</li> <li>(c) the list of ingredients in accordance with the nomenclature established in the glossary of common ingredient names pursuant to Article 33 of Regulation (EC) No 1223/2009, or in the absence of a common ingredient mame, the IUPAC name. In the absence of a singredients. If the name of a substance, used as ingredient within the meaning of this entry, is already required to be stated on the label in accordance with Regulation (EC) No 1272/2008, that ingredient in endowing a substance, used as ingredient within the meaning of this entry, is already required to be stated on the label in accordance." If the mixture contains nickel below the concentration limit specified in Appendix 13;</li> <l< td=""><td></td><td>stance such that the substance then becomes caught by point (a), (b), (c) or (d) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the date of ap-</td></l<></ul>		stance such that the substance then becomes caught by point (a), (b), (c) or (d) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the date of ap-
<ul> <li>Taking effect on the date of application of that new or revised classification.</li> <li>6. If Annex II or Annex IV to Regulation (EC) No 1223/2009 is amended after 4 January 2021 to list or change the listing of a substance such that the substance then becomes caught by point (e), (f) or (g) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the amendment takes effect after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect from the date falling 18 months after entry into force of the act by which that amendment was made.</li> <li>7. Suppliers placing a mixture on the market for use for tattooing purposes shall ensure that, after 4 January 2022, the mixture is marked with the following information: <ul> <li>(a) the statement "Mixture for use in tattoos or permanent make-up";</li> <li>(b) a reference number to uniquely identify the batch;</li> <li>(c) the list of ingredients in accordance with the nomenclature established in the glossary of common ingredient name, the IUPAC name. In the absence of a common ingredient name, the IUPAC name. In the absence of a common ingredient name or IUPAC name, the CAS and EC number. Ingredient's shall be listed on the label in accordance with this Regulation;</li> <li>(d) the additional statement "pH regulator" for substances duild quire point (d)(i) of paragraph 1;</li> <li>(e) the statement "Contains cheed on the label in accordance with Regulation;</li> <li>(f) the statement "Contains cheed on the label in accordance with Regulation;</li> <li>(f) the statement "Contains cheed on the label in accordance with Regulation;</li> <li>(g) the statement "Contains cheed on the label in accordance with Regulation;</li> <li>(f) the statement "Contains cheed on the label in accordance with Regulation;</li> <li>(g) the statement "Contains ch</li></ul></li></ul>		plication of that new or revised classification is after the date referred to in paragraph 1 or, as the case may be, para-
<ul> <li>of a substance such that the substance then becomes caught by point (e), (f) or (g) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the amendment takes effect after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect from the date falling 18 months after entry into force of the act by which that amendment was made.</li> <li>7. Suppliers placing a mixture on the market for use for tattooing purposes shall ensure that, after 4 January 2022, the mixture is marked with the following information:</li> <li>(a) the statement "Mixture for use in tattoos or permanent make-up";</li> <li>(b) a reference number to uniquely identify the batch;</li> <li>(c) the list of ingredients in accordance with the nomenclature established in the glossary of common ingredient name, pursuant to Article 33 of Regulation (EC) No 1223/2009, or in the absence of a common ingredient name, the IUPAC name. In the absence of a common ingredient name or IUPAC name, the CAS and EC number. Ingredients shall be listed in descending order by weight or volume of the ingredients at the time of formulation. "Ingredient means any substance added during the process of formulation and present in the mixture for use for tattooing purposes. Impurities shall not be regarded as ingredients. If the name of a substance, used as ingredient within the meaning of this entry, is already required to be stated on the label in accordance with Regulation (EC) No 1272/2008, that ingredient withis Regulation;</li> <li>(d) the additional statement "DH regulator" for substances falling under point (d)(i) of paragraph 1;</li> <li>(e) the statement "Contains nickel. Can cause allergic reactions." if the mixture contains chromium (VI) below the concentration limit specified in Appendix 13;</li> <li>(f) the statement "Contains nick</li></ul>		Taking effect on the date of application of that new or revised classification.
<ul> <li>date falling 18 months after entry into force of the act by which that amendment was made.</li> <li>7. Suppliers placing a mixture on the market for use for tattooing purposes shall ensure that, after 4 January 2022, the mixture is marked with the following information: <ul> <li>(a) the statement "Mixture for use in tattoos or permanent make-up";</li> <li>(b) a reference number to uniquely identify the batch;</li> <li>(c) the list of ingredients in accordance with the nomenclature established in the glossary of common ingredient names pursuant to Article 33 of Regulation (EC) No 1223/2009, or in the absence of a common ingredient name, the IUPAC name. In the absence of a common ingredient name of IUPAC name, the CAS and EC number. Ingredients shall be listed in descending order by weight or volume of the ingredients at the time of formulation. "Ingredient" means any substance added during the process of formulation and present in the mixture for use for tattooing purposes. Impurities shall not be regarded as ingredients. If the name of a substance, used as ingredient within the meaning of this entry, is already required to be stated on the label in accordance with Regulation (EC) No 1272/2008, that ingredient does not need to be marked in accordance with this Regulation;</li> <li>(d) the additional statement "pH regulator" for substances falling under point (d)(i) of paragraph 1;</li> <li>(e) the statement "Contains nickel. Can cause allergic reactions." if the mixture contains nickel below the concentration limit specified in Appendix 13;</li> <li>(f) the statement "Contains chromium (VI). Can cause allergic reactions." if the mixture contains chromium (VI) below the concentration limit specified in Appendix 13;</li> <li>(g) safety instructions for use insofar as they are not already required to be stated on the label by Regulation (EC) No 1272/2008.</li> <li>The information shall be clearly visible, easily legible and marked in a way that is indelible.</li> <li>The information shall be written in the</li></ul></li></ul>		of a substance such that the substance then becomes caught by point (e), (f) or (g) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the amendment takes effect after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry,
<ul> <li>mixture is marked with the following information:</li> <li>(a) the statement "Mixture for use in tattoos or permanent make-up";</li> <li>(b) a reference number to uniquely identify the batch;</li> <li>(c) the list of ingredients in accordance with the nomenclature established in the glossary of common ingredient names pursuant to Article 33 of Regulation (EC) No 1223/2009, or in the absence of a common ingredient name, the IUPAC name. In the absence of a common ingredient name or IUPAC name, the CAS and EC number. Ingredients shall be listed in descending order by weight or volume of the ingredients at the time of formulation. "Ingredient" means any substance added during the process of formulation and present in the mixture for use for tattooing purposes. Impurities shall not be regarded as ingredients. If the name of a substance, used as ingredient within the meaning of this entry, is already required to be stated on the label in accordance with Regulation (EC) No 1272/2008, that ingredient does not need to be marked in accordance with this Regulation;</li> <li>(d) the additional statement "PH regulator" for substances falling under point (d)(i) of paragraph 1;</li> <li>(e) the statement "Contains nickel. Can cause allergic reactions." if the mixture contains nickel below the concentration limit specified in Appendix 13;</li> <li>(f) the statement "Contains chromium (VI). Can cause allergic reactions." if the mixture contains chromium (VI) below the concentration limit specified in Appendix 13;</li> <li>(g) safety instructions for use insofar as they are not already required to be stated on the label by Regulation (EC) No 1272/2008.</li> <li>The information shall be clearly visible, easily legible and marked in a way that is indelible.</li> <li>The information shall be written in the official language(s) of the Member State(s) where the mixture is placed on the market, unless the Member State(s) concerned provide(s) otherwise.</li> <li>Where necessary because of the size of the package, the informati</li></ul>		date falling 18 months after entry into force of the act by which that amendment was made.
<ul> <li>(a) the statement "Mixture for use in tattoos or permanent make-up";</li> <li>(b) a reference number to uniquely identify the batch;</li> <li>(c) the list of ingredients in accordance with the nomenclature established in the glossary of common ingredient names pursuant to Article 33 of Regulation (EC) No 1223/2009, or in the absence of a common ingredient name, the IUPAC name. In the absence of a common ingredient name or IUPAC name, the CAS and EC number. Ingredients shall be listed in descending order by weight or volume of the ingredients at the time of formulation. "Ingredient" means any substance added during the process of formulation and present in the mixture for use for tattooing purposes. Impurities shall not be regarded as ingredients. If the name of a substance, used as ingredient within the meaning of this entry, is already required to be stated on the label in accordance with Regulation (EC) No 1272/2008, that ingredient does not need to be marked in accordance with this Regulation;</li> <li>(d) the additional statement "pH regulator" for substances falling under point (d)(i) of paragraph 1;</li> <li>(e) the statement "Contains nickel. Can cause allergic reactions." if the mixture contains nickel below the concentration limit specified in Appendix 13;</li> <li>(f) the statement "Contains chromium (VI). Can cause allergic reactions." if the mixture contains chromium (VI) below the concentration limit specified in Appendix 13;</li> <li>(g) safety instructions for use insofar as they are not already required to be stated on the label by Regulation (EC) No 1272/2008.</li> <li>The information shall be clearly visible, easily legible and marked in a way that is indelible.</li> <li>The information shall be written in the official language(s) of the Member State(s) where the mixture is placed on the market, unless the Member State(s) concerned provide(s) otherwise.</li> <li>Where necessary because of the size of the package, the information listed in the first subparagraph, except for point (a),</li></ul>		mixture is marked with the following information:
<ul> <li>(c) the list of ingredients in accordance with the nomenclature established in the glossary of common ingredient names pursuant to Article 33 of Regulation (EC) No 1223/2009, or in the absence of a common ingredient name, the IUPAC name. In the absence of a common ingredient name or IUPAC name, the CAS and EC number. Ingredients shall be listed in descending order by weight or volume of the ingredients at the time of formulation. "Ingredient" means any substance added during the process of formulation and present in the mixture for use for tattooing purposes. Impurities shall not be regarded as ingredients. If the name of a substance, used as ingredient within the meaning of this entry, is already required to be stated on the label in accordance with Regulation (EC) No 1272/2008, that ingredient does not need to be marked in accordance with this Regulation;</li> <li>(d) the additional statement "PH regulator" for substances falling under point (d)(i) of paragraph 1;</li> <li>(e) the statement "Contains nickel. Can cause allergic reactions." if the mixture contains nickel below the concentration limit specified in Appendix 13;</li> <li>(f) the statement "Contains chromium (VI). Can cause allergic reactions." if the mixture contains chromium (VI) below the concentration limit specified in Appendix 13;</li> <li>(g) safety instructions for use insofar as they are not already required to be stated on the label by Regulation (EC) No 1272/2008.</li> <li>The information shall be clearly visible, easily legible and marked in a way that is indelible.</li> <li>The information shall be written in the official language(s) of the Member State(s) where the mixture is placed on the market, unless the Member State(s) concerned provide(s) otherwise.</li> <li>Where necessary because of the size of the package, the information listed in the first subparagraph, except for point (a), shall be included instead in the instructions for use.</li> </ul>		(a) the statement "Mixture for use in tattoos or permanent make-up";
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any substance added during the process of formulation and present in the mixture for use for fattooing purposes. Im- purities shall not be regarded as ingredients. If the name of a substance, used as ingredient within the meaning of this entry, is already required to be stated on the label in accordance with Regulation (EC) No 1272/2008, that ingredi- ent does not need to be marked in accordance with this Regulation; (d) the additional statement "pH regulator" for substances falling under point (d)(i) of paragraph 1; (e) the statement "Contains nickel. Can cause allergic reactions." if the mixture contains nickel below the concentra- tion limit specified in Appendix 13; (f) the statement "Contains chromium (VI). Can cause allergic reactions." if the mixture contains chromium (VI) below the concentration limit specified in Appendix 13; (g) safety instructions for use insofar as they are not already required to be stated on the label by Regulation (EC) No 1272/2008. The information shall be clearly visible, easily legible and marked in a way that is indelible. The information shall be written in the official language(s) of the Member State(s) where the mixture is placed on the market, unless the Member State(s) concerned provide(s) otherwise. Where necessary because of the size of the package, the information listed in the first subparagraph, except for point (a), shall be included instead in the instructions for use.		IUPAC name. In the absence of a common ingredient name or IUPAC name, the CAS and EC number. Ingredients shall
purities shall not be regarded as ingredients. If the name of a substance, used as ingredient within the meaning of this entry, is already required to be stated on the label in accordance with Regulation (EC) No 1272/2008, that ingredi- ent does not need to be marked in accordance with this Regulation; (d) the additional statement "pH regulator" for substances falling under point (d)(i) of paragraph 1; (e) the statement "Contains nickel. Can cause allergic reactions." if the mixture contains nickel below the concentra- tion limit specified in Appendix 13; (f) the statement "Contains chromium (VI). Can cause allergic reactions." if the mixture contains chromium (VI) below the concentration limit specified in Appendix 13; (g) safety instructions for use insofar as they are not already required to be stated on the label by Regulation (EC) No 1272/2008. The information shall be clearly visible, easily legible and marked in a way that is indelible. The information shall be written in the official language(s) of the Member State(s) where the mixture is placed on the market, unless the Member State(s) concerned provide(s) otherwise. Where necessary because of the size of the package, the information listed in the first subparagraph, except for point (a), shall be included instead in the instructions for use.		be listed in descending order by weight or volume of the ingredients at the time of formulation. "Ingredient" means
ent does not need to be marked in accordance with this Regulation; (d) the additional statement "pH regulator" for substances falling under point (d)(i) of paragraph 1; (e) the statement "Contains nickel. Can cause allergic reactions." if the mixture contains nickel below the concentra- tion limit specified in Appendix 13; (f) the statement "Contains chromium (VI). Can cause allergic reactions." if the mixture contains chromium (VI) below the concentration limit specified in Appendix 13; (g) safety instructions for use insofar as they are not already required to be stated on the label by Regulation (EC) No 1272/2008. The information shall be clearly visible, easily legible and marked in a way that is indelible. The information shall be written in the official language(s) of the Member State(s) where the mixture is placed on the market, unless the Member State(s) concerned provide(s) otherwise. Where necessary because of the size of the package, the information listed in the first subparagraph, except for point (a), shall be included instead in the instructions for use.		purities shall not be regarded as ingredients. If the name of a substance, used as ingredient within the meaning of
<ul> <li>(d) the additional statement "pH regulator" for substances falling under point (d)(i) of paragraph 1;</li> <li>(e) the statement "Contains nickel. Can cause allergic reactions." if the mixture contains nickel below the concentration limit specified in Appendix 13;</li> <li>(f) the statement "Contains chromium (VI). Can cause allergic reactions." if the mixture contains chromium (VI) below the concentration limit specified in Appendix 13;</li> <li>(g) safety instructions for use insofar as they are not already required to be stated on the label by Regulation (EC) No 1272/2008.</li> <li>The information shall be clearly visible, easily legible and marked in a way that is indelible.</li> <li>The information shall be written in the official language(s) of the Member State(s) where the mixture is placed on the market, unless the Member State(s) concerned provide(s) otherwise.</li> <li>Where necessary because of the size of the package, the information listed in the first subparagraph, except for point (a), shall be included instead in the instructions for use.</li> </ul>		ent does not need to be marked in accordance with this Regulation:
tion limit specified in Appendix 13; (f) the statement "Contains chromium (VI). Can cause allergic reactions." if the mixture contains chromium (VI) below the concentration limit specified in Appendix 13; (g) safety instructions for use insofar as they are not already required to be stated on the label by Regulation (EC) No 1272/2008. The information shall be clearly visible, easily legible and marked in a way that is indelible. The information shall be written in the official language(s) of the Member State(s) where the mixture is placed on the market, unless the Member State(s) concerned provide(s) otherwise. Where necessary because of the size of the package, the information listed in the first subparagraph, except for point (a), shall be included instead in the instructions for use.		(d) the additional statement "pH regulator" for substances falling under point (d)(i) of paragraph 1; (a) the statement "Contains pickel, Can cause allergic reactions," if the mixture contains pickel below the concentra-
the concentration limit specified in Appendix 13; (g) safety instructions for use insofar as they are not already required to be stated on the label by Regulation (EC) No 1272/2008. The information shall be clearly visible, easily legible and marked in a way that is indelible. The information shall be written in the official language(s) of the Member State(s) where the mixture is placed on the market, unless the Member State(s) concerned provide(s) otherwise. Where necessary because of the size of the package, the information listed in the first subparagraph, except for point (a), shall be included instead in the instructions for use.		tion limit specified in Appendix 13;
(g) safety instructions for use insofar as they are not already required to be stated on the label by Regulation (EC) No 1272/2008. The information shall be clearly visible, easily legible and marked in a way that is indelible. The information shall be written in the official language(s) of the Member State(s) where the mixture is placed on the market, unless the Member State(s) concerned provide(s) otherwise. Where necessary because of the size of the package, the information listed in the first subparagraph, except for point (a), shall be included instead in the instructions for use.		(f) the statement "Contains chromium (VI). Can cause allergic reactions." if the mixture contains chromium (VI) below the concentration limit specified in Appendix 13:
The information shall be written in the official language(s) of the Member State(s) where the mixture is placed on the market, unless the Member State(s) concerned provide(s) otherwise. Where necessary because of the size of the package, the information listed in the first subparagraph, except for point (a), shall be included instead in the instructions for use.		(g) safety instructions for use insofar as they are not already required to be stated on the label by Regulation (EC) No 1272/2008.
(a), shall be included instead in the instructions for use.		The information shall be written in the official language(s) of the Member State(s) where the mixture is placed on the
Before using a mixture for tattooing purposes, the person using the mixture shall provide the person undergoing the		Where necessary because of the size of the package, the information listed in the first subparagraph, except for point (a) shall be included instead in the instructions for use
		Before using a mixture for tattooing purposes, the person using the mixture shall provide the person undergoing the procedure with the information marked on the package or included in the instructions for use pursuant to this para-
graph. 8. Mixtures that do not contain the statement "Mixture for use in tattoos or permanent make-up" shall not be used for		graph. 8. Mixtures that do not contain the statement "Mixture for use in tattoos or permanent make-up" shall not be used for

8. Mixtures that do not contain the statement "Mixture for use in tattoos or permanent make-up" shall not be used for tattooing purposes.

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#### Legend

9. This entry does not apply to substances that are gases at temperature of 20 °C and pressure of 101,3 kPa, or generate a vapour pressure of more than 300 kPa at temperature of 50 °C, with the exception of formaldehyde (CAS No 50-00-0, EC No 200-001-8).

10. This entry does not apply to the placing on the market of a mixture for use for tattooing purposes, or to the use of a mixture for tattooing purposes, when placed on the market exclusively as a medical device or an accessory to a medical device, within the meaning of Regulation (EU) 2017/745, or when used exclusively as a medical device or an accessory to a accessory to a medical device, within the same meaning. Where the placing on the market or use may not be exclusively as a medical device or an accessory to a medical device or an accessory to a medical device, within the same meaning. Where the placing on the market or use may not be exclusively as a medical device or an accessory to a medical device, the requirements of Regulation (EU) 2017/745 and of this Regulation shall apply cumulatively.

#### List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list

none of the ingredients are listed

#### **Seveso Directive**

2012/18/EU (Seveso III)						
Νο	Dangerous substance/hazard categories	Qualifying quantity plication of lower quirer		Notes		
P5c	flammable liquids (cat. 2, 3)	5.000	50.000	51)		

#### Notation

51) Flammable liquids, categories 2 or 3 not covered by P5a and P5b

#### **Deco-Paint Directive**

VOC content	86,4 %
VOC content (Water content was discounted)	786,3 <sup>g</sup> / <sub>l</sub>

#### Industrial Emissions Directive (IED)

VOC content	86,4 %
VOC content (Water content was discounted)	786,3 <sup>g</sup> / <sub>l</sub>

# Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

# Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

#### Water Framework Directive (WFD)

#### List of pollutants (WFD)

•				
Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
Ethanol	Substances and preparations, or the breakdown products of such, which have been proved to pos- sess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine- related functions in or via the aquatic environment		a)	

Legend

Indicative list of the main pollutants

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## Regulation on the marketing and use of explosives precursors

none of the ingredients are listed

### **Regulation on drug precursors**

Name of substance	CAS No	Wt%	Classification	CN Code	Threshold level
Hydrochloric acid %	7647-01-0	3,6	Category 3	2806 10 00	

### Regulation on substances that deplete the ozone layer (ODS)

none of the ingredients are listed

### Regulation concerning the export and import of hazardous chemicals (PIC)

none of the ingredients are listed

#### **Regulation on persistent organic pollutants (POP)**

none of the ingredients are listed

#### **Other information**

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

#### UN Convention against Illicit Traffic in Narcotic Drugs and Psychotropic Substances

Name of substance	CAS No	Listed in	HS code
Hydrochloric acid %	7647-01-0	Table II	2806.10

#### National inventories

Country	Inventory	Status
AU	AIIC	all ingredients are listed
CA	DSL	all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	all ingredients are listed
EU	REACH Reg.	all ingredients are listed
JP	CSCL-ENCS	all ingredients are listed
JP	ISHA-ENCS	not all ingredients are listed
KR	KECI	all ingredients are listed
MX	INSQ	all ingredients are listed
NZ	NZIoC	all ingredients are listed
PH	PICCS	all ingredients are listed
TR	CICR	not all ingredients are listed
TW	TCSI	all ingredients are listed
US	TSCA	all ingredients are listed (ACTIVE)
VN	NCI	all ingredients are listed

#### Legend

AIICAustralian Inventory of Industrial ChemicalsCICRChemical Inventory and Control RegulationCSCL-ENCSList of Existing and New Chemical Substances (CSCL-ENCS)

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KECI NCI NZIoC PICCS REACH Reg. TCSI	Domestic Substances List (DSL) EC Substance Inventory (EINECS, ELINCS, NLP) Inventory of Existing Chemical Substances Produced or Imported in China National Inventory of Chemical Substances Inventory of Existing and New Chemical Substances (ISHA-ENCS) Korea Existing Chemicals Inventory National Chemical Inventory New Zealand Inventory of Chemicals Philippine Inventory of Chemicals and Chemical Substances (PICCS) REACH registered substances Taiwan Chemical Substance Inventory Toxic Substance Control Act
TSCA	Toxic Substance Control Act

#### 15.2 Chemical safety assessment

According to REACH, Article 14 (1) a chemical safety assessment has been carried out for this substance or components of this mixture when the substance has been registered in quantities of 10 tonnes or more per year per registrant.

## **SECTION 16: Other information**

### Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.3	Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.	Results of PBT and vPvB assessment: Does not contain a PBT-/vPvB-substance at a concentration of ≥ 0,1%.	yes
2.3		Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.	yes
14.8	Classification code: 3	Classification code: FC	yes
15.1		VOC content (Water content was discounted): 786,3 <sup>g</sup> / <sub>l</sub>	yes
15.1		VOC content (Water content was discounted): 786,3 <sup>g</sup> / <sub>l</sub>	yes
15.1		Regulation on drug precursors: change in the listing (table)	yes
15.1		National inventories: change in the listing (table)	yes
15.2	Chemical Safety Assessment: Chemical safety assessments for substances in this mixture were not carried out.	Chemical safety assessment: According to REACH, Article 14 (1) a chemical safety assessment has been carried out for this substance or components of this mixture when the substance has been registered in quantities of 10 tonnes or more per year per registrant.	yes

#### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2000/39/EC	Commission Directive establishing a first list of indicative occupational exposure limit values in imple- mentation of Council Directive 98/24/EC
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concern- ing the International Carriage of Dangerous Goods by Road)
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor

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Abbr.	Descriptions of used abbreviations
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
CN Code	Combined Nomenclature
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identi- fier of substances commercially available within the EU (European Union)
ED	Endocrine disruptor
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
Flam. Liq.	Flammable liquid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na- tions
HS	Harmonized Commodity Description and Coding System (Harmonized System, drawn up by the World Customs Organisation)
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
IOELV	Indicative occupational exposure limit value
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LEL	Lower explosion limit (LEL)

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Abbr.	Descriptions of used abbreviations
log KOW	n-Octanol/water
Met. Corr.	Substance or mixture corrosive to metals
NLP	No-Longer Polymer
РВТ	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regula- tions concerning the International carriage of Dangerous goods by Rail)
S.I. No. 619 of 2001	Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
STEL	Short-term exposure limit
STOT SE	Specific target organ toxicity - single exposure
SVHC	Substance of Very High Concern
TWA	Time-weighted average
UEL	Upper explosion limit (UEL)
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

#### Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

#### **Classification procedure**

Physical and chemical properties. The classification is based on tested mixture. Health hazards. Environmental hazards. The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H225	Highly flammable liquid and vapour.
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



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#### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.