according to Regulation (EC) No. 1907/2006 (REACH)



Greinox RAPID

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

1.1 Product identifier

Information on the product / trade name:

Greinox RAPID

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

for Surface treatment, only for industrial use

REACH Registration Number: not relevant (mixture)

1.3 Details of the supplier of the safety data sheet

Information on the manufacturer / supplier:

Kai Greising e. K. Clean Marker

Industriestraße 29/2 73340 Amstetten

Germany

<u>phone:</u> 0049-7331-3058-0 fax: 0049-7331-981722

1.4 Emergency telephone number

Name	Street	Postal code/ city	Telephone	Website
National Poisons Information Service City Hospital	Dudley Rd	B187QH Birmingham	844 892 0111	

Emergency information service Germany +49-761-19240

SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture

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

Section	Hazard class	Category	Hazard class and category	Hazard statement
2.16	Substance or mixture corrosive to metals	1	Met. Corr. 1	H290
3.10	Acute toxicity (oral)	4	Acute Tox. 4	H302
3.2	Skin corrosion/irritation	2	Skin Irrit. 2	H315
3.3	Serious eye damage/eye irritation	2	Eye Irrit. 2	H319

2.2 Label elements

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

Signal word

GHS05, GHS07



Hazard statements:

H290 May be corrosive to metals H302 Harmful if swallowed

H314 Causes severe skin burns and eye damage

Precautionary statements

Precautionary statements - prevention

P234 Keep only in original container.
P260 Do not breathe vapor / spray / mist.

P280 Wear protective gloves / protective clothing / eye protection
P301 + P330 + P331 IF SWALLOWED: rinse mouth. DO NOT induce vomiting.
P303 + P361 + P338 IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water [or shower]

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P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing

P310 Immediately call a POISON CENTER/doctor

Precautionary statements - response

P390 Absorb spillage to prevent material damage.

Precautionary statements - storage

P406 Store in corrosive resistant container with a resistant inner liner

Hazardous ingredients for labelling: Ortho-Phosphoric acid, Sulphuric acid

2.3 Other hazards

During the electrochemical process, electrolyte vapors may form

This mixture does not contain any substances that are assessed to be a PBT or a vPvB

SECTION 3: Composition/information on ingredients

3.1 Substance

not relevant (mixture)

3.2 Mixture

Description of the mixture

Name of substance	Identifier	wt%	Classification acc. To GHS	Pictograms	Notes
Sulphuric acid	CAS No 7664-93-9 EC No 231-639-5 Index No 016-020-00-8 REACH Reg. No 01-2119458838-20-xxxx	<13%	Met. Corr. 1 / H290 Skin Corr. 1A /H314 Eye Dam. 1 / H318	k Median	B(a) GHS-HC IARC: 1 OELV RoC "Known"
ortho-Phosphoric acid	CAS No 7664-38-2 EC No 231-633-2 Index No 015-011-00-6 REACH Reg. No 01-2119485924-24-xxxx	<50 %	Met. Corr. 1 / H290 Acute Tox. 4 / H302 Skin Corr. 1B / H314 Eye Dam. 1 / H318		B(a) GHS-HC IOELV

Notes:

B(a): The classification refers to an aqueous solution

GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list

according to 1272/2008/EC, Annex VI)

IARC: 1: IARC group 1: carcinogenic to humans (International Agency for Research on Cancer)

IOELV: Substance with a community indicative occupational exposure limit value

RoC "Known" NTP-RoC: Known To Be A Human Carcinogen

Name of sub-	Identifier	Specific Conc. Limits	M-Factors	ATE	Exposure
stance					route
ortho- Phosphoric acid	CAS No 7664-38-2 EC No 231-633-2 Index No 015-011-00-6	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%	-	>300 mg/kg	oral
Sulphuric acid	CAS No 7664-93-9 EC No 231-639-5 Index No 016-020-00-8	Skin Corr. 1A; H314: C ≥ 15 % Skin Irrit. 2; H315: 5 % ≤ C < 15 % Eye Dam. 1; H318: C ≥ 15 % Eye Irrit. 2; H319: 5 % ≤ C < 15 %	-	-	

For full text of abbreviations: see SECTION 16 PBT/vPvB: Not applicable for inorganic substances

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SECTION 4: First aid measures

4.1 Description of first aid measures



General notes

Take off immediately all contaminated clothing. Self-protection of the first aider.

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

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye.

Following ingestion

Rinse mouth immediately and drink plenty of water. Rinse mouth with water (only if the person is conscious). Call a physician immediately. If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).

4.2 Most important symptoms and effects, both acute and delayed

Following inhalation: Cough, pain, choking, and breathing difficulties,

Following skin contact: Causes severe burns, Causes poorly healing wounds,

After eye contact: Causes burns, Risk of serious damage to eyes, Risk of blindness,

Following ingestion: Vomiting, Corrosion, Gastric perforation

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 fire-fighting measures to the fire surroundings water spray, foam, dry extinguishing powder, carbon dioxide (CO₂)

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Not combustible.

Hazardous combustion products

Phosphorus oxides (PxOv)

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. Wear full chemical protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures



For non-emergency personnel

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Do not breathe vapour/spray.

according to Regulation (EC) No. 1907/2006 (REACH)



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6.2 Environmental precautions

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

6.3 Methods and materials for containment and cleaning up

Advices on how to contain a spill

Covering of drains.

Advices on how to clean up a spill

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

Other information relating to spills and releases

Place in appropriate containers for disposal.

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. Indications about waste treatment see section 13.

.....

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handle and open container with care. Clear contaminated areas thoroughly.

Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in a dry place. Hygroscopic.

Incompatible substances or mixtures

Observe hints for combined storage.

Protect against external exposure, such as

humidity

Consideration of other advice

• 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)

Country	Name of agent	CAS No	Notation		TWA [mg/m³]	STEL [ppm]		Source
EU	orthophosphoric acid	7664-38-2		IOELV	1		2	2000/39/EC
GB	orthophosphoric acid	7664-38-2		WEL	1		2	EH40/2005
EU	sulfuric acid	7664-93-9	t, mist	IOELV				2009/161/EU
GB	sulfuric acid	7664-93-9	t. mist	WEL				EH40/2005

Notation

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

STEL 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)

TWA 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)

according to Regulation (EC) No. 1907/2006 (REACH)



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	Relevant DNELs of components of the mixture											
Name of substance	CAS No	Endpoint	Threshold level	Protection goal,	Used in	Exposure time						
				route of exposure								
Sulphuric acid	7664-93-9	DNEL	0,05 mg/ m ³	human, inhalatory	worker (industry)	chronic - local effects						
Sulphuric acid	7664-93-9	DNEL	0,1 mg/m³	human, inhalatory	worker (industry)	acute - local effects						

Relevant PNECs of components of the mixture											
Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time					
Sulphuric acid	7664-93-9	PNEC	0,003 ^{mg} / _I	aquatic organ- isms	freshwater	short-term (single instance)					
Sulphuric acid	7664-93-9	PNEC	$_{ m 0}$ mg/ $_{ m I}$	aquatic organ- isms	marine water	short-term (single instance)					
Sulphuric acid	7664-93-9	PNEC	8,8 ^{mg} /l	aquatic organ- isms	sewage treatment	short-term (single instance)					
Sulphuric acid	7664-93-9	PNEC	0,002 ^{mg} /kg	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)					
Sulphuric acid	7664-93-9	PNEC	0,002 ^{mg} /kg	aquatic organ- isms	marine sediment	short-term (single instance)					

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 considerable 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

NBR (Nitrile rubber)

material thickness

>0.3 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.

Respiratory protection





Respiratory protection necessary at: Aerosol or mist formation. Type: B-P2 (combined filters for acidic gases and particles, colour code: Grey/White). Usually no personal respirative protection necessary.

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according to Regulation (EC) No. 1907/2006 (REACH)



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Environmental exposure controls

Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on Basic physical and Chemical properties

Form liquid
Colour red
Odour odourless
Odour Threshold Not applicable

pH <1

Melting point ~-42,0°C Boiling point 108°C

Flash point

Evaporation rate

Flammability (solid, gas)

Lower explosion limit

Upper explosion limit

Vapour pressure

Relative vapour density

No information available.

Density $\sim 1,33 \text{ g/cm}^3$

Relative density No information available.

Water solubility soluble

Partition coefficient: n-octanol/water
Auto-ignition temperature
Decomposition temperature
Viscosity, dynamic
Explosive properties
No information available.

Oxidizing 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

SECTION 10: Stability and reactivity

10.1 Reactivity

Substance or mixture corrosive to metals.

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: Aldehydes, Alkali (lye), Alkali metals, Ammonia (NH3), Bromates, Carbide, Chlorates, Alkaline earth metal, Halogenated hydrocarbons, Metals, Metal powder, Nitrate, Nitro compound, Organic substances, Perchlorates, Permanganates, Peroxides, Phosphorus, Phosphorus oxides (e.g. P₂O₅), Acids, Strong alkali, Water, Hydrogen peroxide

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

different metals

Release of flammable materials with

Metals, Light metals (due to the release of hydrogen in an acid/alkaline medium)

according to Regulation (EC) No. 1907/2006 (REACH)



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10.6 Hazardous decomposition products

in the event of fire: 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

Harmful if swallowed.

• Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	Endpoint	Value	Species					
Sulphuric acid	7664-93-9	oral	LD50	2.140 mg/kg	rat					
ortho-Phosphoric acid	7664-38-2	oral	LD50	>300 – 2.000 mg/kg	rat					
ortho-Phosphoric acid	7664-38-2	oral	LD50	1.530 mg/kg	rat					
ortho-Phosphoric acid	7664-38-2	dermal	LD50	2.740 mg/kg	rabbit					

Acute toxicity estimate (ATE) of components of the mixture								
Name of substance CAS No Exposure route ATE								
ortho-Phosphoric acid	7664-38-2	oral	>300 mg/kg					

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor 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

If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects)

• If in eyes

causes burns, Causes serious eye damage, risk of blindness

If inhaled

cough, pain, choking, and breathing difficulties

• If on skin

causes severe burns, causes poorly healing wounds

Other information

none

11.2 Endocrine disrupting properties

None of the ingredients are listed.

according to Regulation (EC) No. 1907/2006 (REACH)



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11.3 Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute) of components of the mixture.

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
ortho-Phosphoric acid	7664-38-2	EC50	>100 mg/l	aquatic invertebrates	48 h
ortho-Phosphoric acid	7664-38-2	ErC50	>100 mg/l	algae	72 h
Sulphuric acid	7664-93-9	EC50	>100 mg/l	aquatic invertebrates	48 h
Sulphuric acid	7664-93-9	ErC50	>100 mg/l	algae	72 h

Aquatic toxicity (chronic) of components of the mixture										
Name of substance	CAS No	Endpoint	Value	Species	Exposure time					
ortho-Phosphoric acid	7664-38-2	EC50	>1.000 ^{mg} /l	microorganisms	3 h					

Biodegradation

The methods for determining the biological degradability are not applicable to inorganic substances.

12.2 Process of degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Endocrine disrupting properties

None of the ingredients are listed.

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/packaging

It is a dangerous waste; only packaging which are approved (e.g. acc. to ADR) may be used.

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. Waste catalogue ordinance (Germany).

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

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SECTION 14: Transport information

14.1 UN number **3264**

14.2 UN proper shipping name CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

Hazardous ingredients SULPHURIC ACID, PHOSPHORIC ACID, SOLUTION

14.3 Transport hazard class(es)



Class 8 (corrosive substances)

14.4 Packing group II (substance presenting low danger)

14.5 Environmental hazards none (non-environmentally hazardous acc. to the dangerous

goods regulations)

14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

The cargo is not intended to be carried in bulk.

14.8 Information for each of the UN Model Regulations

• Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

UN number 3264

Proper shipping name CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. Particulars in the transport document UN3264, CORROSIVE LIQUID, ACIDIC, INORGAN-

IC, N.O.S., (SULFURIC ACID, PHOSPHORIC ACID Sulfuric acid solution <13%, Phosphoric acid <50%),

8, II, (E)

Class 8
Classification code C1
Packing group II
Danger label(s) 8



Excepted quantities (EQ) E2
Limited quantities (LQ) 1 L
Transport category (TC) 2
Tunnel restriction code (TRC) E
Hazard identification No 80
Emergency Action Code 2X

• Transport of dangerous goods by air transport ICAO-TI und IATA-DGR:

UN number 3264

Proper shipping name CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

Particulars in the transport document UN3264, CORROSIVE LIQUID, ACIDIC, INORGAN-

IC, N.O.S., (SULFURIC ACID, PHOSPHORIC ACID Sulfuric acid solution <13%, Phosphoric acid <50%),

8, II

Class 8
Packing group II
Danger label(s) 8

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according to Regulation (EC) No. 1907/2006 (REACH)



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Excepted quantities (EQ) E2 Limited quantities (LQ) 0.5 L

• International Maritime Dangerous Goods Code (IMDG)

UN number 3264

Proper shipping name CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

Particulars in the shipper's declaration UN3264, CORROSIVE LIQUID, ACIDIC, INORGAN-IC, N.O.S., (SULFURIC ACID, PHOSPHORIC ACID

Sulfuric acid solution <13%, Phosphoric acid <50%),

8, II

Class 8
Marine pollutant Packing group II
Danger label(s) 8



Special provisions (SP) 223
Excepted quantities (EQ) E2
Limited quantities (LQ) 1 L
EmS F-A, S-B

Stowage category B

Segregation group 1 - Acids

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant

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

Dangerous substances with	Dangerous substances with restrictions (REACH, Annex XVII)									
Name of substance	Name acc. to inventory	CAS No	Restriction	No						
ortho-Phosphoric acid	substances in tattoo inks and permanent make-up		R75	75						
Sulphuric acid	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3	3						
Sulphuric acid%	substances in tattoo inks and permanent make-up		R75	75						

Legend

- R3 1. Shall not be used in:
 - ornamental articles intended to produce light or colour effects by means of different phases, for example in orna- mental 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 requirements are met:

according to Regulation (EC) No. 1907/2006 (REACH)



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- (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.';
- R75 1. Shall not be placed on the market in mixtures for use for tattooing purposes, and mixtures containing any such substances shall not be used for tattooing purposes, after 4 January 2022 if the substance or substances in question is or are present in the following circumstances:
 - (a) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as carcinogen category 1A, 1B or 2, or germ cell mutagen category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0.00005 % by weight:

 - 0,00005 % by weight;
 (b) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as reproductive toxicant category 1A, 1B or 2, 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 skin sensitiser category 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 skin corrosive category 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;
 (ii) 0,01 % by weight, in all other cases;
 (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

 - (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: (i) "Rinse-off products";

 - (ii) "Not to be used in products applied on mucous membranes"; (iii) "Not to be used in eye products";

 - (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 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 skip muchus membrane or expendit by concentration are present in the purposes of the purpose of the purposes of the purposes

 - 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 making a mark or design on his or
 - 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 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.

 4.By way of derogation, paragraph 1 shall not apply to the following substances until 4 January 2023: (a) Pigment Blue 15:3 (CI 74160, EC No 205-685-1, CAS No 147-14-8);
 (b) Pigment Green 7 (CI 74260, EC No 215-524-7, CAS No 1328-53-6).

 - (b) Pigment Green 7 (CI 74260, EC No 215-524-7, CAS No 1328-53-6).

 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-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-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, 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.

 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 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. 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 ingredient 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 concentration limit

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

according to Regulation (EC) No. 1907/2006 (REACH)



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List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list None of the ingredients are listed. (Or Concentration of the substance in a mixture: <0.1 % Mass concentration)

- Regulation 649/2012/EU concerning the export and import of hazardous chemicals (PIC) None of the ingredients are listed.
- Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS) None of the ingredients are listed.
- Regulation 850/2004/EC on persistent organic pollutants (POP)
 None of the ingredients are listed.
- List of substances subject to authorisation (REACH, Annex XIV)/SVHC candidate list None of the ingredients are listed. (Or Concentration of the substance in a mixture: <0.1 % Mass concentration)

Seveso Directive

2012	2012/18/EU (Seveso III)				
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and uppertier requirements	Notes		
	not assigned				

Deco-Paint Directive)

VOC content 0 %/ 0 g/l

Industrial Emissions Directive (IED)

VOC content 0 % / 0 g/l

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
Sulphuric acid%	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

A) Indicative list of the main pollutants

Regulation on the marketing and use of explosives precursors

Explosives precursors which are subject to restrictions					
Name of substance	CAS No	Type of registration	Remarks	Limit value	Upper limit value for the purpose of licensing under Article 5(3)
Sulphuric acid%	7664-93-9	Annex I		15 % w/w	40 % w/w

Legend

annex I

Substances which shall not be made available to members of the general public on their own, or in mixtures or substances including them, except if the concentration is equal to or lower than the limit values set out below

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according to Regulation (EC) No. 1907/2006 (REACH)



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Regulation on drug precursors

Name of substance	CAS No	Classification	CN Code	Threshold level
Sulphuric acid	7664-93-9	Category 3	2807 00 00	

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
Sulphuric acid	7664-93-9	Table II	2807.00

National inventories

Country	National inventories	Status
AU	AICS	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
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

Legend

AICS Australian Inventory of Chemical Substances
CICR Chemical Inventory and Control Regulation

CSCL-ENCS List of Existing and New Chemical Substances (CSCL-ENCS)

DSL Domestic Substances List (DSL)

ECSI EC Substance Inventory (EINECS, ELINCS, NLP)

IECSC Inventory of Existing Chemical Substances Produced or Imported in China

INSQ National Inventory of Chemical Substances
KECI Korea Existing Chemicals Inventory
NZIoC New Zealand Inventory of Chemicals

PICCS Philippine Inventory of Chemicals and Chemical Substances

REACH Reg. REACH registered substances
TCSI Taiwan Chemical Substance Inventory

TSCA Toxic Substance Control Act

15.2 Chemical Safety Assessment

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

SECTION 16: Other information

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2000/39/EC	Commission Directive establishing a first list of indicative occupational exposure
	limit values in impletation of Council Directive 98/24/EC
2009/161/EU	Commission Directive establishing a third list of indicative occupational exposure
	limit values in implementation of Council Directive 98/24/EC and amending
	Commission Directive 2000/39/EC

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Abbr.	Descriptions of used abbreviations	
2017/2398/EC	Directive of the European Parliament and of the Council amending Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work	
Acute Tox.	Acute toxicity	
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)	
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)	
ADR/RID/ADN	Agreements concerning the International Carriage of Dangerous Goods by Road/Rail/Inland Waterways (ADR/RID/ADN)	
ATE	Acute Toxicity Estimate	
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	
CMR	Carcinogenic, Mutagenic or toxic for Reproduction	
DGR	Dangerous Goods Regulations (see IATA/DGR)	
DMEL	Derived Minimal Effect Level	
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 identifier of substances commercially available within the EU (European Union)	
EH40/2005	EH40/2005 Workplace exposure limits, Table 1: List of approved workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/)	
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	
Eve Irrit.	irritant to the eve	
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations	
IATA IATA/DGR	International Air Transport Association Dangerous Goods Regulations (DGR) for the air transport (IATA)	
ICAO	International Civil Aviation Organization	
IMDG	International Maritime Dangerous Goods Code	

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according to Regulation (EC) No. 1907/2006 (REACH)



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Abbr.	Descriptions of used abbreviations
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
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant)
Met. Corr.	corrosive to metals
NLP	No-Longer Polymer
ppm	parts per million
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	corrosive to skin
Skin Irrit.	irritant to skin
STEL	short-term exposure limit
SVHC	Substance of Very High Concern
TWA	time-weighted average
VOC	Volatile Organic Compounds
vPvB	very Persistent and very Bioaccumulative
WEL	workplace exposure limit

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.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). 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 chapter 2 and 3)

Code	Text
H290	may be corrosive to metals
H302	Harmful if swallowed.
H314	causes severe skin burns and eye damage
H318	causes serious eye damage

Training advice

Provide adequate information, instruction and training for operators.

Disclaimer

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. It does not represent a guarantee of any properties of the product.

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