

## **SAFETY DATA SHEET**

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006  
Version 2 / Revision Date 19.09.2024

Amended format as per requirements of COMMISSION REGULATION (EU) 2020/878

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

1.1. Product identifier

Product Name: COLOUR GEL PAINT NO WIPE HEMA/TPO FREE

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

Uses advised: Nail gel, cosmetic

Uses against: not specified

1.3. Details of the supplier of the safety data sheet

Company.:

**HD NAILS SRL**

*Sede legale: Corso Torino 61R 16129 Genova (GE)*

*P.Iva: 02045680994*

Telephone.: (0039) 3939618361

E-mail address.: info@hdnails.it

### **SECTION 2: Hazards identification**

2.1. Classification of the substance or mixture

#### **Classification according to Regulation (EC) No 1272/2008 and its subsequent amendments**

H317 May cause an allergic skin reaction, Skin Sens. 1A

H319 Causes serious eye irritation, Eye Irrit. 2

H411 Toxic to aquatic life with long lasting effects, Aquatic Chronic 2

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### 2.2. Label elements

#### Label elements according to Regulation EC 1272/2008



#### Signal word:

Warning

#### Hazard Statements:

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

#### Precautionary statements:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321 Specific treatment. Reference to supplemental first aid instruction.

Manufacturer/supplier may specify a cleansing agent if appropriate.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

P501 Dispose of contents/container to local regulations.

### 2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

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### 3.1. Mixtures

Hazardous ingredients according to Regulation (EC) No 1272/2008

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<b>Component with REACH Registration No.</b>	<b>CAS-No.</b>	<b>EINECS-No.</b>	<b>Classification / Hazard Statements</b>	<b>Concentration [%]</b>
2-PROPENOIC ACID REACTION PRODUCTS WITH DIPENTAERYTHRITOL 01-2119980666-22-XXXX	1384855-91-7	800-838-4	H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H412 Harmful to aquatic life with long lasting effects.	50-75
ALIPHATIC URETHANE METHACRYLATE	82339-26-2	-	Not classified as hazardous to human health and the environment.	25-50
SILICA 01-2119379499-16-XXXX	7631-86-9 (112945-52-5) 60676-86-0	231-545-4 (262-373-8) 310-060-2	Not classified as hazardous to human health and the environment.	1-5
HYDROXYPROPYL METHACRYLATE 01-2119490226-37-XXXX	27813-02-1	248-666-3	H317: May cause an allergic skin reaction. H319: Causes serious eye irritation.	1-5
ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE 01-2119987994-10-XXXX	84434-11-7	282-810-6	H317: May cause an allergic skin reaction. H411: Toxic to aquatic life with long lasting effects.	1-5
CI 15850	17852-98-1 (5281-04-9) 5858-81-1	241-806-4	Not classified as hazardous to human health and the environment.	1-5
CI 15880	6417-83-0	229-142-3	Not classified as hazardous to human health and the environment.	1-5
CI 19140	12225-21-7 (1934-21-0)	217-699-5	Not classified as hazardous to human health and the environment.	1-5
CI 77491	1309-37-1 (1317-61-9) (1345-27-3) (52357-70-7) (1345-25-1)	215-168-2 / 215-277-5 / 215-722-3 / 257-870-1 / 215-721-8	Not classified as hazardous to human health and the environment.	1-5

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CI 77499	12227-89-3 (1309-37-1) (1317-61-9) (1345-25-1) (1345-27-3) (52357-70-7)	235-442-5 (215-168-2) (215-277-5) (215-721-8) (215-722-3) (257-870-1)	Not classified as hazardous to human health and the environment.	1-5
CI 77891 (Titanium Dioxide)	13463-67-7 (1317-70-0) (1317-80-2)	236-675-5 (215-280-1) 215-282-2	H351 (Inhalation): Suspected of causing cancer (in powder form containing 1% or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$ ).	1-5
CI 73360	2379-74-0	219-163-6	Not classified as hazardous to human health and the environment.	1-5
CI 77510	25869-00-5 (12240-15-2) (25869-00-5)	237-875-5	Not classified as hazardous to human health and the environment.	1-5
CI 77007	12769-96-9 (1302-83-6) 57455-37-5 (1317-97-1)	235-811-0 (215-111-1) 309-928-3	Not classified as hazardous to human health and the environment.	1-5
CI 42090	3844-45-9 (2650-18-2) 68921-42-6	223-339-8 (220-168-0) 272-939-6	Not classified as hazardous to human health and the environment.	1-5
CI 77742	10101-66-3	233-257-4	Not classified as hazardous to human health and the environment.	1-5
CI 12085	2814-77-9	220-562-2	Not classified as hazardous to human health and the environment.	0.1-1
TRIETHYLAMINE	121-44-8	204-469-4	H225: Highly flammable liquid and vapour. H302: Harmful if swallowed. H312: Harmful in contact with skin. H314: Causes severe skin burns and eye damage. H332: Harmful if inhaled. H335: May cause respiratory irritation. Specific concentration limit: STOT SE 3; H335: C $\geq 1 \%$	0-0.1
BHT 01-2119565113-46-XXXX	128-37-0	204-881-4	Not classified as hazardous to human health and the environment.	0-0.1
HYDROQUINONE	123-31-9	204-617-8	H302: Harmful if swallowed. H317: May cause an allergic skin reaction. H318: Causes serious eye damage. H341: Suspected of causing genetic defects. H351: Suspected of causing cancer. H400: Very toxic to aquatic life.	<0.02

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P-HYDROXYANISOLE	150-76-5	205-769-8	H302: Harmful if swallowed. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation.	<0.02
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Other components in quantities that maybe considered hazardous (impurities)

ACRYLIC ACID	79-10-7	201-177-9	H226: Flammable liquid and vapour. H302: Harmful if swallowed. H312: Harmful in contact with skin. H314: Causes severe skin burns and eye damage. H332: Harmful if inhaled. H335: May cause respiratory irritation (STOT SE3) - Specific concentration limit: C ≥ 1 % H400: Very toxic to aquatic life.	0.1-1
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**SECTION 4: First aid measures****4.1. Description of first aid measures**

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled;

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact;

Wash off with plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed;

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

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

Contact the national / local poison centre.

**SECTION 5: Firefighting measures****5.1. Extinguishing media**

Suitable extinguishing media. Use water spray, organic solvents-resistant foam, dry chemical or carbon dioxide

**5.2. Special hazards arising from the substance or mixture**

Carbon oxides

**5.3. Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**5.4. Further information**

Use water spray to cool unopened containers

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**SECTION 6: Accidental release measures**

6.1. Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8. 6.2. Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains 6.3. Methods and material for containment and cleaning up Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet- brushing and place in container for disposal according to local regulations (see section 13). 6.4. Reference to other sections For disposal see section 13

**SECTION 7: Handling and storage**

7.1. Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition- No smoking. Take measures to prevent the build-up of electrostatic charge. For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Precautionary Statement Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

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

8.1. Control parameters

Component	CAS-No.	Workplace exposure limit (UK)			
		Long-term exposure limit (8-hr TWA reference period)		Short-term exposure limit (15-minute reference period)	
		ppm	mg/m3	ppm	mg/m3
2-PROPENOIC ACID REACTION PRODUCTS WITH DIPENTAERYTHRITOL	1384855-91-7	-	-	-	-
ALIPHATIC URETHANE METHACRYLATE	82339-26-2	-	-	-	-

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SILICA	7631-86-9 (112945-52-5) 60676-86-0	-	0.08	-	-
HYDROXYPROPYL METHACRYLATE	27813-02-1	-	-	-	-
ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE	84434-11-7	-	-	-	-
CI 15850	17852-98-1 (5281-04-9) 5858-81-1	-	-	-	-
CI 15880	6417-83-0	-	-	-	-
CI 19140	12225-21-7 (1934-21-0)	-	-	-	-
CI 77491	1309-37-1 (1317-61-9) (1345-27-3) (52357-70-7) (1345-25-1) 12227-89-3	-	5	-	10
CI 77499	(1309-37-1) (1317-61-9) (1345-25-1) (1345-27-3) (52357-70-7)	-	-	-	-
CI 77891 (Titanium Dioxide)	13463-67-7 (1317-70-0) (1317-80-2)	-	10 (inhalable) 4 (respirable)	-	-
CI 73360	2379-74-0 25869-00-5	-	-	-	-
CI 77510	(12240-15-2) (25869-00-5) 12769-96-9	-	-	-	-
CI 77007	(1302-83-6) 57455-37-5 (1317-97-1) 3844-45-9	-	-	-	-
CI 42090 CI 77742 CI 12085	(2650-18-2) 68921-42-6 10101-66-3	-	-	-	-
TRIETHYLAMINE	2814-77-9	-	-	-	-
BHT	121-44-8	-	-	-	-
HYDROQUINONE	128-37-0	2	8	4	17
P-HYDROXYANISOLE	123-31-9	-	10	-	-
ACRYLIC ACID	150-76-5	-	0.5	-	-
	79-10-7	-	-	-	-
		10	29	20	59

8.2. Exposure controls Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Personal protective equipment  
**Eye/face protection** Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).  
 Skin protection Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

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**Body Protection** impervious clothing flameretardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. **Respiratory protection** Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as CEN (EU). **Control of environmental exposure** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## SECTION 9: Physical and chemical properties

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### 9.1. Information on basic physical and chemical properties

- a) Physical state: viscous liquid (gel)
- b) Colour: various (depending on pigment)
- c) Odour: characteristic
- d) Melting point / freezing point: n/a
- e) Boiling point or initial boiling point and boiling range: n/a
- f) Flammability: not flammable
- g) Lower and upper explosion limit: n/a  
(Note: The term 'explosion limit' is synonymous to 'flammability limit', used outside the Union)
- h) Flash point: 134°C (PN-EN ISO 2719)
- i) Auto-ignition temperature: n/a
- j) Decomposition temperature: n/a
- k) pH: n/a
- l) Kinematic viscosity: 200.000 – 700.000 mPa\*s at 25°C
- m) Solubility: insoluble in cold and hot water
- n) Partition coefficient n-octanol/water (log value): n/a
- o) Vapour pressure: n/a
- p) Density and/or relative density: n/a
- q) Relative vapour density: n/a
- r) Particle characteristics: n/a

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

- a) Explosives: n/a
- b) Flammable gases: n/a
- c) Aerosols: n/a
- d) Oxidising gases: n/a
- e) Gases under pressure: n/a
- f) Flammable liquids: n/a
- g) Flammable solids: n/a
- h) Self-reactive substances and mixtures: n/a
- i) Pyrophoric liquids: n/a
- j) Pyrophoric solids: n/a
- k) Self-heating substances and mixtures: n/a
- l) Substances and mixtures, which emit flammable gases in contact with water: n/a
- m) Oxidising liquids: n/a
- n) Oxidizing solids: n/a

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- o) Organic peroxides: n/a
- p) Corrosive to metals: n/a
- q) Desensitised explosives: n/a

### 9.2.2 Other safety characteristics

- (a) mechanical sensitivity: n/a
- (b) self-accelerating polymerisation temperature: n/a
- (c) formation of explosible dust/air mixtures: n/a
- (d) acid/alkaline reserve: n/a
- (e) evaporation rate: n/a
- (f) miscibility: n/a
- (g) conductivity: n/a
- (h) corrosiveness: n/a
- (i) gas group: n/a
- (j) redox potential: n/a
- (k) radical formation potential: n/a
- (l) photocatalytic properties: n/a

## SECTION 10: Stability and reactivity

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10.1. Reactivity No data available. 10.2. Chemical stability Stable under recommended storage conditions. 10.3. Possibility of hazardous reactions No data available 10.4. Conditions to avoid Heat, flames and sparks. 10.5. Incompatible materials Strong oxidizing agents 10.6. Hazardous decomposition products Formed under fire conditions Carbon oxides, Nitrogen oxides (NO<sub>x</sub>) Other decomposition products No data available. 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 11.1.1.

Information for each hazard class differentiation

No data available.

11.1.2. Mixtures (a) acute toxicity: Harmful if ingested.

(b) skin corrosion/irritation: Causes skin irritation (redness).

(c) serious eye damage/irritation: Causes serious eye irritation. (binds the eyes causing difficult product removal).

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(d) respiratory or skin sensitisation: May cause an allergic skin reaction. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels (elicitation).

(e) germ cell mutagenicity: n/a

(f) carcinogenicity: n/a

(g) reproductive toxicity: n/a

(h) STOT-single exposure: May cause central nervous system (CNS) depression, fatigue, coma or even fatality if accidentally enters the GI tract or inhaled.

(i) STOT-repeated exposure: n/a

(j) aspiration hazard: May cause respiratory irritation.

11.1.3 Single components – Acute Toxicity and Chronic Toxicity

Component	CAS-No.	LD50 Oral/ Dermal	Skin/Eye irritant	Sensitizer	Carcinogenic	Genotoxic	Mutagenic
2-PROPENOIC ACID REACTION PRODUCTS WITH DIPENTAERYTHRITOL	1384855-91-7	LD50 (oral, rat) > 2 000 mg/kg bw (2012, OECD 423) LD50 (dermal, rabbit) > 2 000 mg/kg bw (1980, 40 CFR Part 163.81-2) (ECHA)	May cause slight skin irritation. Causes serious eye irritation.	Sensitising - has a high allergenic potential.	No evidence of carcinogenic potential.	In vitro: positive mutagenicity observed with S. typhimurium strain TA1535 in the presence of metabolic activation, (S. typhimurium TA 98, TA 100 and E. coli WP2 uvr negative in vivo: (ECHA).	Substance at concentratio ns up to 1000 µg/plate is mutagenic in tester strain TA1535 with metabolic activation only. No mutagenicity was observed with or without metabolic activation using other S. typhimurium strains TA1537, TA198 or E. coli strains: mutagenic in the mouse micronucleu s test and the in vivo chromosoma l aberration assay. (ECHA) No evidence of mutagenic potential.
ALIPHATIC URETHANE METHACRYLATE	82339-26-2	No evidence available.	Causes skin irritation. Causes serious eye irritation.	May cause an allergic skin reaction.	No evidence of carcinogenic potential.	No evidence of genotoxic potential. In vitro: negative (Chinese hamster Ovary (CHO)); In vivo: negative (rat); Negative	
SILICA	7631-86-9 (112945-52-5) 60676-86-0	LD50 (oral, rat) > 5 000 mg/kg bw (1999, OECD Guideline 401 (Acute Oral Toxicity); LD50 (dermal, rabbit)	Not irritating to the skin and eyes.	Non- sensitising	No evidence of carcinogenic potential		Non- mutagenic

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		> 2 000 mg/kg bw (2006, Guidelines of the Department of Transportation) (ECHA)				in vitro gene mutation study in bacteria (ECHA). Negative in	
HYDROXYPROPYL METHACRYLATE	27813-02-1	LD50 >=2000 mg/kg bw (oral, rats, OECD Guideline 401, 1996); LD50 >5000 mg/kg bw (Dermal, rabbits, no guideline followed, 1982) (ECHA) LD50 > 5000	Not irritating to the skin. Causes serious eye irritation.	May cause an allergic skin reaction.	No evidence of carcinogenic potential.	vitro gene mutation study in mammalian cells (Chinese hamster Ovary (CHO)). In vivo: negative (Drosophila melanogaster) (ECHA)	Non-mutagenic
ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE	84434-11-7	mg/kg bw (oral, rat, OECD Guideline 401, 1982); LD50 >= 2000 mg/kg bw (dermal, rat, OECD Guideline 402, 2013) (ECHA) LD50 (Oral, rat)	Not irritating to skin and eyes.	May cause an allergic skin reaction.	No evidence of carcinogenic potential	In vitro: negative (Chinese hamster lung fibroblasts (V79)) (ECHA)	No evidence of mutagenic potential.
CI 15850	17852-98-1 (5281-04-9) 5858-81-1	> 6400 mg/kg bw (OECD Guideline 423, 1987) LD50 (dermal, rat) > 2 500 mg/kg bw (OECD Guideline 402, 1973) (ECHA)	Not irritating to the skin and eyes.	Non-sensitising.	Non-carcinogenic	In vitro: negative (lymphocytes: cultured peripheral human lymphocytes) (ECHA).	No evidence of mutagenic potential.
CI 15880	6417-83-0	LD50 >5000 mg/kg bw (Oral, rats, OECD 401, report date: 1974)	Not classified as irritant.	Non-sensitising.	No evidence available.	In vitro: negative (S. typhimurium TA 1535, TA 100, TA 1537, TA 98, E. coli: WP2 uvrA; OECD Guideline 471; 2015) (ECHA)	Not mutagenic to S. typhimurium TA 1535, TA 100, TA 1537, TA 98, E. coli: WP2 uvrA. (ECHA)
CI 19140	12225-21-7 (1934-21-0)	LD50 (oral, mouse) > 1 000 mg/kg bw (no guideline followed, 2009, practically nontoxic) (ECHA)	Not irritating to the skin and eyes.	Non-sensitising.	Non-carcinogenic	In vitro: negative (S. typhimurium, other: TA 1535, TA 1537, TA 1538, TA 97, TA 98, TA 100); In vivo: negative (rat) (ECHA) In vitro:	Non-mutagenic
CI 77491	1309-37-1 (1317-61-9) (1345-27-3) (52357-70-7) (1345-25-1)	LD50 (oral, rat) > 10 000 mg/kg bw (1977) (ECHA)	Not classified as irritant.	Non-sensitising.	Non-carcinogenic	negative (Chinese hamster lung fibroblasts (V79)); In vivo: negative (rat) (ECHA) Negative in	No evidence of mutagenic potential.
CI 77499	12227-89-3 (1309-37-1) (1317-61-9) (1345-25-1) (1345-27-3) (52357-70-7)	LD50 (oral, rat) > 5 000 mg/kg bw (ECHA)	May cause mechanical eye irritation. Not irritating to skin.	Non-sensitising.	No evidence of carcinogenic potential	vitro bacterial reverse gene mutation assay (OECD TG 471);	No evidence of mutagenic potential

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						Negative in vivo mammalian cell study: DNA damage and/or repair (rat, OECD Guideline 489) (ECHA) No adverse effects observed in bacterial reverse mutation assays, in vitro gene mutation and clastogenicity tests as well as in vivo. (ECHA)	
CI 77891 (Titanium Dioxide)	13463-67-7 (1317-70-0) (1317-80-2)	LD50 (oral, rat) > 2 000 mg/kg bw; OECD Guideline 401 (Acute Oral Toxicity); (ECHA)	May cause a mechanical eye irritation.	Non-sensitising.	Suspected of causing cancer (via inhalation and in powder form containing 1% or more of particles with aerodynamic diameter =< 10µm).		Non-mutagenic
CI 73360	2379-74-0	LD50 >10 000 mg/kg bw (oral, rat, 1977, Company guideline similar to OECD 401). (ECHA)	Not classified as irritant.	Non-sensitising.	No evidence available.	Negative in vitro gene mutation study in bacteria. (ECHA)	Non-mutagenic in S. typhimurium and E. coli reverse mutation assay. (ECHA)
CI 77510	25869-00-5 (12240-15-2) (25869-00-5)	LD50 > 2000 mg/kg bw (oral, rat, 2011, OECD Guideline 423). (ECHA)	Not classified as irritant.	Non-sensitising.	No evidence of carcinogenic potential.	Negative in vitro gene mutation study in bacteria. (ECHA)	Non-mutagenic.
CI 77007	12769-96-9 (1302-83-6) 57455-37-5 (1317-97-1)	LD50 > 10 000 mg/kg (oral, rat) (ref. SDS Nubiola)	Not classified as irritant.	Non-sensitising.	No evidence of carcinogenic potential.	In vitro: negative (S. typhimurium TA 1535, TA 1537, TA 98 and TA 100, E. coli WP2 uvr A). (ECHA) In vitro: negative (S. typhimurium TA 100, TA 1535, TA 97, TA98, TA 102 and E. coli WP2 uvr A). In vivo: negative mammalian cell study: DNA damage and/or repair (mouse). (ECHA)	Not mutagenic to S. typhimurium TA 1535, TA 1537, TA 98 and TA 100, E. coli WP2 uvr A. (ECHA)
CI 42090	3844-45-9 (2650-18-2) 68921-42-6	LD50 (oral, rat) > 1900 mg/kg bw (OECD Guideline 401, 1982) (ECHA)	Not classified as irritant.	Non-sensitising.	Non-carcinogenic		Non-mutagenic
CI 77742	10101-66-3	LD50 12 900 mg/kg bw (oral, rat, 1976, OECD guideline 401); LD50 6 450 mg/kg bw (dermal, 2012, calculated) (ECHA)	May cause mechanical eye irritation. Not irritating to skin	Non-sensitising.	No evidence available.	Not classified as genotoxic.	Non-mutagenic.

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CI 12085	2814-77-9	LD50 (oral, mouse) > 10 000 mg/kg bw; OECD Guideline 401; LD50 (dermal, rat) > 2000 mg/kg bw; OECD Guideline 402; (ECHA)	Not classified as irritant.	Non-sensitising.	Non-carcinogenic.	Positive in vitro (S. typhimurium TA 98) with metabolic activation. Negative in vitro (S. typhimurium strains TA 1535, TA 1537 and TA 100 and the E. coli strain WP2 uvrA). Negative in vivo mammalian cell study: DNA damage and/or repair (rat). (ECHA)	Mutagenic to S. typhimurium strain TA 98 in the presence of metabolic activation. (ECHA)
TRIETHYLAMINE	121-44-8	LD50 (oral, rat) 730 mg/kg bw; OECD Guideline 401 (Acute Oral Toxicity); LD50 (dermal, rabbit) 580 mg/kg bw; OECD Guideline 402 (Acute Dermal Toxicity); (ECHA)	Harmful in contact with skin. Causes severe skin burns and eye damage.	Non-sensitising.	No evidence of carcinogenic potential	In vitro: negative (S. Typhimurium TA98, TA100, TA1535, TA1537, TA97). In vivo: negative (rat). (ECHA)	Non-mutagenic
BHT	128-37-0	LD50 > 6 000 mg/kg bw (oral, rat, OECD 401, no mortality occurred); LD50 > 2 000 mg/kg bw (dermal, rat, OECD 402, no mortality occurred) (ECHA)	Not irritating to the skin and eyes.	Non-sensitising.	Non-carcinogenic	In vitro: negative (S. typhimurium TA98, TA100, TA1535, TA1537, TA1538). In vivo: negative (mouse). (ECHA)	Not mutagenic in any of the five S. typhimurium tester strains (TA98, TA100, TA1535, TA1537, TA1538) (ECHA) No
HYDROQUINONE	123-31-9	LD50 (oral, rat) >375 mg/kg bw (OECD 401, 2002); LD50 (dermal, rabbit) >2000 mg/kg bw (Dermal, rabbit, OECD 402/EU Method B.3., 2001) (ECHA)	Causes serious eye damage. Not classified as skin irritant.	May cause an allergic skin reaction.	Suspected of causing cancer. (NOAEL 25 mg/kg bw/day Study type: carcinogenicity (rat, OECD 453) (ref.ECHA))	Positive in vitro gene mutation study in mammalian cells (mouse lymphoma L5178Y). Negative in vitro gene mutation study in bacteria. Negative in vivo mammalian cell study: DNA damage and/or repair (rat) (ECHA)	mutagenic activity in a bacterial test (all S. typhimurium strains required by OECD Guideline 471). Positive in the mouse lymphoma mutation assay both in the absence and presence of metabolic activation at relative total growths of 32% and

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							87%, respectively (similar to OECD Guideline 476) (ECHA)
P-HYDROXYANISOLE	150-76-5	LD50 (oral, rat) > 1 000 mg/kg bw; LD50 (dermal, rat) > 2 000 mg/kg bw; EU Method B.3 (Acute Toxicity (Dermal)); (ECHA)	Causes serious eye irritation. Slightly irritating to the skin.	May cause an allergic skin reaction.	Not considered as carcinogenic	In vitro: negative cytogenicity / chromosome aberration study in mammalian cells (Human lymphocytes). In vivo: negative mammalian somatic cell study (rat) (ECHA)	No evidence of mutagenic potential

Other components in quantities that may be considered hazardous (impurities)

ACRYLIC ACID	79-10-7	LD50 (oral, rat) 1 000 mg/kg bw; OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method); LD50 (dermal, rabbit) > 2 000 mg/kg bw; OECD Guideline 402 (Acute Dermal Toxicity); (ECHA)	Causes severe skin burns and eye damage.	Non-sensitising.	No evidence of carcinogenic potential	In vitro: negative (Chinese hamster Ovary (CHO)). In vivo: negative (rat) (ECHA)	Non mutagenic in mammalian cells in vitro (ECHA)
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11.2.1. Endocrine disrupting properties

No data available.

11.2.2. Other information

No data available.

**SECTION 12: Ecological information**

12.1. Toxicity

Available toxicity of single components (table below)

12.2. Persistence and degradability

Biodegradability not available

12.1.1 / 12.2.1 Single components – Toxicity and Biodegradability

Component	CAS-No.	Toxicity to fish	Toxicity to algae	Biodegradability
2-PROPENOIC ACID REACTION PRODUCTS WITH DIPENTAERYTHRITOL	1384855-91-7	LC0 Cyprinus carpio (carp) 7.2 mg/L, LL50 13 mg/L (96h, OECD Guideline 203, no lethal effects) (ECHA)	EL50 Raphidocelis subcapitata > 100 mg/L, NOELR 10 mg/L (72h, OECD Guideline 201) (ECHA)	Biodegradation in water. Results: ca. 0-2% degradation (CO2 evolution) after 29 days. Conclusion: not readily biodegradable (OECD Guideline 301B). (ECHA)

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SILICA	7631-86-9 (112945-52-5) 60676-86-0	LC50value was not determined, the value expected to be much grater than the concentration limit of 100 mg/l recommended in the current OECD TG 203.	Silicashows no algal toxicity of the dissolved fractions with all NOEC values above solubility (>100 mg/L).	Biodegradation is not applicable due to the chemical nature (inorganic substance)
HYDROXYPROPYL METHACRYLATE	27813-02-1	LC50 Leuciscus idus melanotus, 493 mg/L, 48h (DIN 38412 Teil 15; Teil 1) (ECHA)	EC50 Pseudokirchnerella subcapitata, 97.2 mg/L, 72h (OECD Test Guideline 201) (ECHA)	Biodegradation in water: 81% oxygen consumption in 28 days. Conclusion: readily biodegradable (OECD Guideline 301C) (ECHA)
ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE	84434-11-7	LC50 Danio rerio, 1.89 mg/L, 96h; NOEC Danio rerio, >= 1.29 mg/l, 96h (EU Method C.1 (Acute Toxicity for Fish)) (ECHA)	EC50 Desmodesmus subspicatus, 1.01 mg/l, 72h (EU Method C.3 (Algal Inhibition test)) (ECHA)	Biodegradation in water. Results: < 10% degradation after 28 days - no biodegradation observed under test conditions. Conclusion: not readily biodegradable. (OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)) (ECHA)
CI 15850	17852-98-1 (5281-04-9) 5858-81-1	LC50 - Brachydanio rerio > 100 mg/l 96h (OECD guideline 203) (ECHA)	EC50 - Daphnia magna > 100 mg/l - 48h (OECD guideline 202 and GLP); EC50 - Pseudokirchneriella subcapitata > 100 mg/l 72 h (OECD guideline 201)	Biodegradation in water; Results: 9-12% after 28 days; Conclusion: poorly biodegradable in water. (ECHA) Biodegradation in water. Results:
CI 15880	6417-83-0	The acute toxicity of Pigment Red 63:1 to carp (Cyprinus carpio) was found to be above the maximum solubility of the test substance in test medium. (ECHA)	The test item is with high probability not acutely harmful to aquatic algae. No toxic effects occur within the range of solubility. (ECHA)	0% degradation (CO2 evolution) after 28 days. Under test conditions no biodegradation observed. Conclusion: not readily biodegradable. OECD Guideline 301 B. (ECHA) Biodegradation in water. Results:
CI 19140	12225-21-7 (1934-21-0)	LC50- Danio rerio fish, 100 mg/L, 96 h (OECD Guideline 203); LC50 Leuciscus idus, 120 mg/l, 96h (OECD Guideline 203 (Fish, Acute Toxicity Test)) (ECHA)	EC50 - freshwater algae >125 mg/L, 72h (ECHA)	27.17% (O2 consumption) after 42 days (OECD guideline 301 D); 30-40 % CO2 evolution test. (OECD 301B). Conclusion: not readily biodegradable. (ECHA)
CI 77491	1309-37-1 (1317-61-9) (1345-27-3) (52357-70-7) (1345-25-1)	LC0- Danio rerio >= 50 000 mg/l- 96h; LC90- Danio rerio- 100 000 mg/l- 96h (Proposed procedure by the Federal Environmental Agency for lethal effect on Zebraabrebling) (ECHA)	EC50>20 mg/l; NOEC >=20 mg/l; Raphidocells subcapitata, 72h (OECD Guideline 201) (ECHA)	Biodegradation studies in water, sediment and soil are not required for inorganic substances, such as diiron trioxide.
CI 77499	12227-89-3 (1309-37-1) (1317-61-9) (1345-25-1) (1345-27-3) (52357-70-7)	LC50 - Danio rerio 50 000 mg/L - 96 h (Federal Environmental Agency Germany May 1984) (ECHA) //LC50 Danio rerio >= 100 000 mg/L (OECD Guideline 203) (ECHA)	EC50 - Pseudokirchneriella subcapitata, >20 mg/L, 72 h (OECD Guideline 201) (ECHA)	Biodegradation is not applicable due to the chemical nature (inorganic substance)
CI 77891 (Titanium Dioxide)	13463-67-7 (1317-70-0) (1317-80-2)	LC50 - Carassius auratus and Oncorhynchus mykiss > 1000 mg/L 96 h (OECD Guideline 203 and 204); NOEC - Danio rerio, Phoxinus phoxinus, and Coregonus atumnalis migratorius ≥ 500- 1000 mg/L- 30 d (OECD Guideline 212 and Russian study) (ECHA)	Pseudokirchneriella subcapitata EC10 5mg/L; EC50 415 mg/L- 72h (OECD Guideline 201) (ECHA)	Biodegradation studies in water, sediment and soil are not required for inorganic substances, such as titanium dioxide.
CI 73360	2379-74-0	No data available.	EC50 - Desmodesmus subspicatus > 1 mg/L - 72 h; NOEC -Desmodesmus subspicatus 1 mg/L - 72h	No data available.

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			(OECD Guideline 201) (ECHA)	
CI 77510	25869-00-5 (12240-15-2) (25869-00-5)	The substance is highly insoluble in water, hence indicating that aquatic toxicity is unlikely to occur.	The substance is highly insoluble in water, hence indicating that aquatic toxicity is unlikely to occur.	Biodegradation is not applicable due to the chemical nature (inorganic substance).
CI 77007	12769-96-9 (1302-83-6) 57455-37-5 (1317-97-1)	LC50> 32000 mg/kg - 96h (SDS Kreidezeit Naturfarben GmbH)	No data available.	Biodegradation is not applicable due to the chemical nature (inorganic substance).
CI 42090	3844-45-9 (2650-18-2) 68921-42-6	LC50 - Golden orfe > 100 mg/l - 96h (Guideline DIN 28 412); LC50 - Cyprinus carpio > 100 mg/L - 48h Flury and Fühler (1994) (ECHA)	EC50- Chlorella vulgaris> 100 mg/l. (ECHA)	Biodegradation in water; Results: <10% degradation after 28 days. Conclusion: Not Readily Biodegradable. (OECD Guideline 301 BLC) (ECHA)
CI 77742	10101-66-3	Toxicity study to fish does not need to be conducted since the substance is highly insoluble in water. LC50 - Poecilia reticulata >	Toxicity study to algae does not need to be conducted since the substance is highly insoluble in water.	Biodegradation is not applicable due to the chemical nature (inorganic substance).
CI 12085	2814-77-9	100 mg/L - 48h, LC50 - Poecilia reticulata > 100 mg/L - 96h, Test No. L 47 "Fish, Acute Toxicity test. Chemical formulations and waste waters." (ECHA)	EC50 - Desmodesmus subspicatus > 100 mg/L - 72h, NOEC - Desmodesmus subspicatus < 1mg/L - 72h, EU Method C.3 (Algal Inhibition test) (ECHA)	Biodegradation in water. Results: 0% after 28 days. Under test conditions no biodegradation observed. Conclusion: Not ready biodegradable. OECD Guideline 301 C. (ECHA)
TRIETHYLAMINE	121-44-8	LC50 - Oryzias latipes (freshwater fish) - 24 mg/L - 96h (OECD Guideline 203); LC50 - Ceriodaphnia dubia - 17 mg/L 48h (ECHA)	EC50 - Pseudokirchneriella subcapitata 8.0 mg/L - 72h (OECD Guideline 201); NOEC 1.1 mg/L - 72h Based on the Area Under the Curve (AUC) EC50 Daphnia magna -	Biodegradation in water. Results: 80.3% degradation after 28 days. Conclusion: readily biodegradable (OECD Guideline 301B) (ECHA)
BHT	128-37-0	LC50- Oryzias latipes 0.199 mg/L - 96 h (OECD Guideline 203) (ECHA)	0.48 mg/L - 48 h (OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)); NOEC- Daphnia magna - 0.15 mg/L - 48h (EU Method C.2 (Acute Toxicity for Daphnia)) (ECHA) EC50 0.33 mg/L; EC10 or	Biodegradation in water; Results: 4.7% degradation after 28 days; Conclusion: Not readily biodegradable. (ECHA)
HYDROQUINONE	123-31-9	LC50 - Onchorhynchus mykiss, Pimephales promelas 0.638 mg/L - 96 h OECD Guideline 203) (ECHA)	NOEC 0.019 mg/L Pseudokirchnerella subcapitata - OECD Guideline 201 (Alga, Growth Inhibition Test) (ECHA) EC50 54.7 mg/L; EC10 or	Biodegradation in water: Results: 70% biodegradation after 14 days. Conclusion: readily biodegradable (OECD Guideline 301C) (ECHA)
P-HYDROXYANISOLE	150-76-5	LC50 Fathead minnow (Pimephales promelas) 28.5 mg/L 96 h (OECD 203 and EU method C1) (ECHA)	NOEC 2.96 mg/L - 72 h Pseudokirchneriella subcapitata (OECD guideline 201, EU method C3) (ECHA)	Biodegradation in water: Results: 86% degradation in 28 days. Conclusion: readily biodegradable (OECD guideline 301C) (ECHA)
ACRYLIC ACID	79-10-7	LC50 27 mg/L (measured), Salmo gairdneri, 96h (EPA OTS 797.1400); LC50 236 mg/L (measured), Cyprinodon variegatus, 96h (OECD TG 203) (ECHA)	EC50 0.13 mg/L (nominal), Scenedes: mus subspicatus, 72 h (79/831/EEC, C.3); EC10 0.03 mg/L (nominal), Scenedesmus subspicatus, 72h (92/69/EEC, C.3) (ECHA)	Biodegradation in water; Results: 81% biodegradation (O2 consumption) within 28 days. Conclusion: readily biodegradable (OECD Guideline 302B). Acrylic acid was readily biodegradable in a sandy loam soil under aerobic conditions at 25°C in the dark. The DT50 under these conditions was estimated to be < 1 day. Acrylic acid is also susceptible to

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				degradation by anaerobic microbes. (ECHA)
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- 12.3. Bioaccumulative potential  
Not data available
- 12.4. Mobility in soil  
No data available
- 12.5. Results of PBT and vPvB assessment  
Not data available
- 12.6. Endocrine disrupting properties  
No data available
- 12.7. Other adverse effects  
Not data available

**SECTION 13: Disposal considerations**

13.1. Waste treatment methods Product Dispose of as unused product The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Precautionary Statement Disposal P501 Dispose of contents in accordance with local/ regional/ national/international regulation. Packaging The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**SECTION 14: Transport information**



- 14.1. UN number or ID number  
UN3082
- 14.2. UN proper shipping name  
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-Propenoic Acid Reaction Products with Dipentaerythritol)
- 14.3. Transport hazard class(es)  
9

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14.4. Packing group

III

14.5. Environmental hazards

Yes

14.6. Special precautions for user

Marine pollutant

14.7. Maritime transport in bulk according to IMO instruments

No data available

**SECTION 15: Regulatory information**

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

1. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC
2. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
3. Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work
4. Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC
5. Commission Directive 2009/161/EU of 17 December 2009 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
6. Commission Directive (EU) 2017/164 of 31 January 2017 establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU
7. European Agreement Concerning the International Carriage of Dangerous Goods by Road (ADR)
8. Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives
9. European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste
10. COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

15.2. Chemical safety assessment

For this product a chemical safety assessment was not carried out.

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**SECTION 16: Other information**

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Full text of H-Statements referred to under sections 2 and 3.

H225 Highly flammable liquid and vapour.  
H226 Flammable liquid and vapour.  
H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H341 Suspected of causing genetic defects.  
H351 Suspected of causing cancer.  
H400 Very toxic to aquatic life.  
H411 Toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.

The above information is believed to be correct but might not be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

\*This document is based solely on the list of ingredients and product safety information submitted for safety data sheet, and assumes that this list is accurate and there are no additional ingredients or data which are not listed. If this information is incorrect, please contact the toxicological safety assessor [a.nnolim@toxhb.net](mailto:a.nnolim@toxhb.net) with the correct data\*

End of safety data sheet