

SAFETY DATA SHEET

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

Version 1 / Revision Date 31.07.2024

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: BASE EXTRA 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

H315 Causes skin irritation, Skin Irrit. 2

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

H319 Causes serious eye irritation, Eye Irrit. 2

H335 May cause respiratory irritation, STOT SE 3

H412 Harmful to aquatic life with long lasting effects, Aquatic Chronic 3.

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2.2. Label elements

Label elements according to Regulation EC 1272/2008



Signal word:

Warning

Hazard Statements:

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

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

P264: Wash hands thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

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.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

P312: Call a POISON CENTRE (+48 42 2538 400) or doctor if you feel unwell.

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.

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

P405: Store locked up.

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.

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SECTION 3: Composition/information on ingredients

3.1. Mixtures

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

Component with REACH Registration No.	CAS-No.	EINECS-No.	Classification / Hazard Statements	Concentration [%]
ALIPHATIC URETHANE METHACRYLATE	82339-26-2	-	Not classified as hazardous to human health and the environment.	50-75
PPG-3 GLYCERYL ETHER TRIACRYLATE 01-2119487948-12-XXXX	52408-84-1	500-114-5	H317: May cause an allergic skin reaction. H319: Causes serious eye irritation.	10-25
ISOBORNYL METHACRYLATE 01-2119886505-27-XXXX	7534-94-3	231-403-1	H315: Causes skin irritation. H319: Causes serious eye irritation. H335: May cause respiratory irritation. Specific concentration limits >=10%. H412: Harmful to aquatic life with long lasting effects.	5-10
BIS (METHACRYLOYLOXYETHYL) PHOSPHATE	32435-46-4	251-040-2	H315: Causes skin irritation. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H335: May cause respiratory irritation. H412: Harmful to aquatic life with long lasting effects.	1-5
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
HYDROXYCYCLOHEXYL PHENYL KETONE	947-19-3	213-426-9	Not classified as hazardous to human health and the environment.	1-5
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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METHYL BENZOYLFORMATE 01-2120101338-67-XXXX	15206-55-0	239-263-3	H317: May cause an allergic skin reaction.	0.1-1
ETHYL METHACRYLATE 01-2119490215-40-XXXX	97-63-2	202-597-5	H225: Highly flammable liquid and vapour. H315: Causes skin irritation. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H335: May cause respiratory irritation.	0.1-1
ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE	84434-11-7	282-810-6	H317: May cause an allergic skin reaction. H411: Toxic to aquatic life with long lasting effects.	0-0.1
BHT 01-2119565113-46-XXXX	128-37-0	204-881-4	H410: Very toxic to aquatic life with long lasting effects.	0-0.1
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 $\leq 10 \mu\text{m}$).	0-0.1
CI 15850	17852-98-1 (5281-04-9) 5858-81-1	241-806-4	Not classified as hazardous to human health and the environment.	0-0.1
CI 19140	12225-21-7 (1934-21-0)	217-699-5	Not classified as hazardous to human health and the environment.	0-0.1
CI 60725	81-48-1	201-353-5	H317: May cause an allergic skin reaction. H413: May cause long lasting harmful effects to aquatic life.	0-0.1
CI 77499	12227-89-3	235-442-5	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. H410: Very toxic to aquatic life with long lasting effects.	<0.02
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

Other components in quantities that maybe considered hazardous (impurities)

METHACRYLIC ACID	79-41-4	201-204-4	H302: Harmful if swallowed. H312: Harmful in contact with skin	0-0.1
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			H314: Causes severe skin burns and eye damage. H335: May cause respiratory irritation. Specific concentration limits; >=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

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

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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/m ³	ppm	mg/m ³
ALIPHATIC URETHANE METHACRYLATE	82339-26-2	-	-	-	-
PPG-3 GLYCERYL ETHER TRIACRYLATE	52408-84-1	-	-	-	-
ISOBORNYL METHACRYLATE	7534-94-3	-	-	-	-
BIS (METHACRYLOYLOXYETHYL) PHOSPHATE	32435-46-4	-	-	-	-
SILICA	7631-86-9 (112945-52-5) 60676-86-0	-	0.08	-	-
HYDROXYPROPYL METHACRYLATE	27813-02-1	-	-	-	-
HYDROXYCYCLOHEXYL PHENYL KETONE	947-19-3	-	-	-	-

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ACRYLIC ACID	79-10-7	10	29	20	59
METHYL BENZOYLFORMATE	15206-55-0	-	-	-	-
ETHYL METHACRYLATE	97-63-2	-	-	-	-
ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE	84434-11-7	-	-	-	-
BHT	128-37-0	-	-	-	-
CI 77891 (Titanium Dioxide)	13463-67-7 (1317-70-0) (1317-80-2)	-	10 (inhalable) 4 (respirable)	-	-
CI 15850	17852-98-1 (5281-04-9) 5858-81-1	-	-	-	-
CI 19140	12225-21-7 (1934-21-0)	-	-	-	-
CI 60725 CI 77499	81-48-1	-	-	-	-
HYDROQUINONE P-	12227-89-3	-	-	-	-
HYDROXYANISOLE	123-31-9	-	0.5	-	-
METHACRYLIC ACID	150-76-5	-	-	-	-
	79-41-4	20	72	40	143

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.
Body Protection impervious clothing flame retardant 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

9.1. Information on basic physical and chemical properties

- Physical state: viscous liquid (gel)
- Colour: various (depending on pigment)
- Odour: characteristic

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- d) Melting point / freezing point: n/a
- e) Boiling point or initial boiling point and boiling range: n/a
- f) Flammability: n/a
- 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: 132°C (PN-EN ISO 2719)
- i) Auto-ignition temperature: n/a
- j) Decomposition temperature: n/a
- k) pH: n/a
- l) Kinematic viscosity: 16.000 – 26.000 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
- 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

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- (j) redox potential: n/a
- (k) radical formation potential: n/a
- (l) photocatalytic properties: n/a

SECTION 10: Stability and reactivity

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 (NOx) 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).

~~(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

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Component	CAS-No.	LD50 Oral/ Dermal	Skin/Eye irritant	Sensitizer	Carcinoge- nic	Genotoxic	Mutagenic
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.	No evidence of mutagenic potential.
PPG-3 GLYCERYL ETHER TRIACRYLATE	52408-84-1	LD50 (oral, rat) > 2 000 mg/kg bw; OECD Guideline 401 (Acute Oral Toxicity); LD50 (dermal, rabbit) > 2 000 mg/kg bw; OECD Guideline 402 (Acute Dermal Toxicity); (ECHA)	Not irritating to the skin. Causes serious eye irritation.	May cause an allergic skin reaction.	No concern for carcinogenic potential	In vitro: negative (S. typhimurium TA 1535, TA 1537, TA 98 and TA 100, E. coli WP2 uvr A). In vivo: negative (mouse) (ECHA)	Non-mutagenic
ISOBORNYL METHACRYLATE	7534-94-3	LD50 (oral, rat) 3.16 mL/kg bw (3160 mg/kg bw); LD50 (dermal, rabbit) > 3 000 mg/kg bw; (ECHA)	Causes skin irritation. Causes serious eye irritation. Causes skin irritation. Causes serious eye irritation.	Non-sensitising	No evidence of carcinogenic potential.	In vitro: negative. (S. typhimurium TA 1535, TA 1537, TA 98, TA 100 and E. coli WP2) (ECHA). No evidence of genotoxic potential.	Non-mutagenic
BIS (METHACRYLOYLOXYET HYL) PHOSPHATE	32435-46-4	No evidence available.	irritation. Causes serious eye irritation.	May cause an allergic skin reaction.	No evidence of carcinogenic potential.	In vitro: negative (Chinese hamster Ovary (CHO)); In vivo: negative (rat); Negative in vitro gene mutation study in bacteria (ECHA). Negative in vitro gene mutation study in mammalian cells. In vivo: negative (Drosophila melanogaster) (ECHA)	No evidence of mutagenic potential.
SILICA	7631-86-9 (112945-52-5) 60676-86-0	LD50 (oral, rat) > 5 000 mg/kg bw (E.U. directive 79/831) LD50 (dermal, rabbit) > 5 000 mg/kg bw (1978, no guideline followed) (ECHA) LD50 2000 mg/kg bw (oral, rats, OECD Guideline 401, 1996); LD50 >5000 mg/kg bw (Dermal, rabbits, no guideline followed, 1982) (ECHA)	Not irritating to the skin and eyes.	Non-sensitising	No evidence of carcinogenic potential	Negative in vitro gene mutation study in bacteria (ECHA). Negative in vitro gene mutation study in mammalian cells. In vivo: negative (Drosophila melanogaster) (ECHA)	Non-mutagenic
HYDROXYPROPYL METHACRYLATE	27813-02-1	LD50 (oral, rats, OECD Guideline 401, 1996); LD50 >5000 mg/kg bw (Dermal, rabbits, no guideline followed, 1982) (ECHA)	Not irritating to the skin. Causes serious eye irritation.	May cause an allergic skin reaction.	No evidence of carcinogenic potential.	Negative in vitro gene mutation study in bacteria (S. typhimurium TA 1535, TA 1537, TA 1538, TA 98 and TA 100). Negative in vivo mammalian somatic cell study: cytogenicity / erythrocyte	Non-mutagenic
HYDROXYCYCLOHEXYL PHENYL KETONE	947-19-3	LD50 (oral, rat) > 2500 mg/kg bw (OECD Guideline 401 (Acute Oral Toxicity)); LD50 (dermal, rabbit) > 5000 mg/kg bw. (OECD Guideline 402 (Acute Dermal Toxicity)) (ECHA)	Not irritating to the skin and eyes.	Non-sensitising.	No evidence of carcinogenic potential.	cytogenicity / erythrocyte	Not mutagenic in the Salmonella typhimurium reverse mutation assay and in the Escherichia coli reverse mutation assay (ECHA)

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						micronucleus (hamster). (ECHA)	
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	Negative in vitro gene mutation study in mammalian cells (Chinese hamster Ovary (CHO)). Negative in vivo mammalian somatic cell study: cytogenicity / bone marrow chromosome aberration (rat) (ECHA)	Non mutagenic in mammalian cells in vitro (ECHA)
METHYL BENZOYLFORMATE	15206-55-0	LD50 (oral, rat) 6 800 - 10 000 mg/kg bw (OECD Guideline 401 (Acute Oral Toxicity)); LD50 (dermal, rabbit) > 2 000 mg/kg bw (OECD Guideline 402 (Acute Dermal Toxicity)) (ECHA)	Not irritating to the skin and eyes.	May cause an allergic skin reaction.	No evidence of carcinogenic potential.	Negative in vitro gene mutation study in bacteria (S. typhimurium TA 1535, TA 1537, TA 98, TA 100 and E. coli WP2) (ECHA)	Non-mutagenic
ETHYL METHACRYLATE	97-63-2	LD50 (oral, rat) 13 424 mg/kg bw; LD50 (dermal, rat) > 10 mL/kg bw (ECHA)	Causes skin irritation. Causes serious eye irritation.	May cause an allergic skin reaction.	No evidence of carcinogenic potential	Negative in vitro gene mutation study in bacteria (Salmonella typhimurium strains TA 1535, TA 1537, TA 98, TA 100, and Escherichia coli strain WP2 uvrA) (ECHA)	No concern of the mutagenic potential
ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE	84434-11-7	LD50 > 5000 mg/kg bw (oral, rat, OECD Guideline 401, 1982); LD50 >= 2000 mg/kg bw (dermal, rat, OECD Guideline 402, 2013) (ECHA)	Not irritating to the skin and eyes.	May cause an allergic skin reaction.	No evidence of carcinogenic potential	In vitro: negative (Chinese hamster lung fibroblasts (V79)) (ECHA)	No concern of the mutagenic potential
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	Negative in vitro gene mutation study in bacteria (S. typhimurium TA98, TA100, TA1535, TA1537, TA1538) In vivo: negative (mouse). (ECHA)	Not mutagenic in any of the five Salmonella typhimurium tester strains (TA98, TA100, TA1535, TA1537, TA1538) (ECHA)
CI 77891 (Titanium Dioxide)	13463-67-7 (1317-70-0) (1317-80-2)	LD50 (oral, rat) > 2 000 mg/kg bw; OECD	Not irritating to the skin and eyes.	Non-sensitising.	Suspected of causing cancer (via	No adverse effects observed in bacterial	Non-mutagenic

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		Guideline 401 (Acute Oral Toxicity); (ECHA)			inhalation and in powder form containing 1% or more of particles with aerodynamic diameter = < 10µm).	reverse mutation assays, in vitro gene mutation and clastogenicity tests as well as in vivo. (ECHA)	
CI 15850	17852-98-1 (5281-04-9) 5858-81-1	LD50 (Oral, rat) > 6400 mg/kg bw (OECD Guideline 423, 1987); LD50 (dermal, rat) > 2500 mg/kg bw (OECD Guideline 402, 1973) (ECHA)	Not irritating to the skin and eyes.	Non-sensitising.	Non-carcinogenic	Negative in vitro gene mutation study in mammalian cells (Chinese hamster lung fibroblasts (V79)), OECD Guideline 476 (ECHA). Negative in vitro	No evidence of mutagenic potential.
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	gene mutation study in bacteria (S. typhimurium, other: TA 1535, TA 1537, TA 1538, TA 98, TA 100); In vivo: negative (rat) (ECHA) Negative in vitro	Non-mutagenic
CI 60725	81-48-1	LD50 (oral, rat) 5000 mg/kg bw (OECD Guideline 401) (ECHA)	Not irritating to the skin and eyes.	May cause an allergic skin reaction.	No evidence of carcinogenic potential	gene mutation study in bacteria. (S. typhimurium TA 1535, TA 1537, TA 98, TA 100 and E. coli WP2) Negative in vivo mammalian somatic cell study: cytogenicity / bone marrow chromosome aberration (mouse). (ECHA) Negative in vitro bacterial reverse	Non-mutagenic
CI 77499	12227-89-3	LD50 (oral, rat) > 5 000 mg/kg (ECHA)	Not irritating to the skin and eyes.	Non-sensitising.	No evidence of carcinogenic potential.	gene mutation assay (OECD TG 471); Negative in vivo mammalian cell study: DNA damage and/or repair (rat, OECD Guideline 489) (ECHA) Negative in vitro gene mutation study in	No evidence of mutagenic potential.
HYDROQUINONE	123-31-9	LD50 (oral, rat) 367 mg/kg bw (OECD 401, 2002); LD50 (dermal, rabbit) >2000 mg/kg bw (Dermal, rabbit, OECD 402/EU	Not irritating to skin. Causes serious eye damage.	May cause an allergic skin reaction.	Suspected of causing cancer. HQ has been classified in Carcinogenicity Category 2 (suspected	bacteria; Positive in vitro mouse lymphoma mutation assay	Not mutagenic in a bacterial gene mutation study (all Salmonella typhimurium

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		Method B.3., 2001) (ECHA)			human carcinogen) according to C&L of the GHS.NOAEL 25 mg/kg bw/day Study type: carcinogenicity (rat, OECD 453) (ECHA)	(with and without metabolic activation) at relative total growths of 32% and 87% (similar to OECD Guideline 476); Negative in vivo mammalian cell study: DNA damage and/or repair (rat) (ECHA)	strains required by OECD Guideline 471); HQ was positive in the mouse lymphoma mutation assay both in the absence and presence of metabolic activation at relative total growths of 32% and 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)	Slightly irritating to the skin. Causes serious eye irritation.	May cause an allergic skin reaction.	Not considered as carcinogenic	Negative in vitro cytogenicity / chromosome aberration study in mammalian cells. Negative in vivo mammalian somatic cell study: cytogenicity / bone marrow chromosome aberration (ECHA)	No evidence of mutagenic potential

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

METHACRYLIC ACID	79-41-4	LD50 (oral, rat) 1320 mg/kg bw; OECD Guideline 401 (Acute Oral Toxicity), LD50 (dermal, rabbit) 500 - 1000 mg/kg bw; (ECHA)	Causes severe skin burns and eye damage.	Non-sensitising	Not considered as carcinogenic	Negative in vitro gene mutation study in bacteria and in vivo mammalian germ cell study: cytogenicity / chromosome aberration. (ECHA)	Non-mutagenic
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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)

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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
PPG-3 GLYCERYL ETHER TRIACRYLATE	52408-84-1	LC50 Danio rerio, 5.74 mg/L, 96h, OECD Guideline 203 (Fish, Acute Toxicity Test) (ECHA)	EC50 12.2 mg/l, Desmodesmus subspicatus, OECD Guideline 201 (Alga, Growth Inhibition Test) (ECHA)	Biodegradation in water; Results: 72-85% degradation after 28 days. Conclusion: readily biodegradable. OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test) (ECHA)
ISOBORNYL METHACRYLATE	7534-94-3	LC50 Danio rerio 1.79 mg/L - 96h (OECD Guideline 203) (ECHA) LC50 value was not	EC50 Pseudokirchneriella subcapitata 2.66 mg/L and EC10 or NOEC 0.254 mg/L - 96h (OECD Guideline 201) (ECHA)	Biodegradation in water. Results: 70 % biodegradation within 28 days. Conclusion: readily biodegradable. (OECD 310) (ECHA)
SILICA	7631-86-9 (112945-52-5) 60676-86-0	determined, the value expected to be much greater than the concentration limit of 100 mg/l recommended in the current OECD TG 203.	Silica shows 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) Biodegradability in water. Results: 80% degradation (CO2 evolution) after 28 days. Conclusion: readily biodegradable (EU Method C.4-C (Determination of the "Ready" Biodegradability - Carbon Dioxide Evolution Test)) (ECHA)
HYDROXYCYCLOHEXYL PHENYL KETONE	947-19-3	LC50 - Danio rerio- 24 mg/L - 96h (EU Method C.1 (Acute Toxicity for Fish) (ECHA)	EC50 - Desmodesmus subspicatus 14.4 mg/L - 72h (OECD Guideline 201 (Alga, Growth Inhibition Test)) (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 degradation by anaerobic microbes. (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), Scenedesmus 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. Result: >90% biodegradation after 28 days. Conclusion: readily biodegradable (OECD Guideline 301 B) (ECHA)
METHYL BENZOYLFORMATE	15206-55-0	LC50 Danio rerio 120 mg/L - 96h (OECD Guideline 203) (ECHA)	EC50 Pseudokirchneriella subcapitata 94.4 mg/L (OECD Guideline 201) (ECHA)	Biodegradation in water. Result: 79.1% degradation after 21 days. (OECD Guideline 301D)
ETHYL METHACRYLATE	97-63-2	LC50 Oncorhynchus mykiss 100 mg/L - 96h (OECD Guideline 203); NOEC Danio rerio 9.4	EC50 freshwater algae 110 mg/L (OECD guideline 201) (ECHA)	Conclusion: readily biodegradable. (ECHA)

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		mg/L (OECD guideline 210) (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) (ECHA)
BHT	128-37-0	LC50 - Oryzias latipes 1.1 mg/L - 96 h (OECD Guideline 203) (ECHA)	EC50 - Pseudokirchneriella subcapitata > 0.24 mg/L, NOEC - Pseudokirchneriella subcapitata 0.24 mg/L (72h, OECD Guideline 201)	Biodegradation in water; Results: 4.7% degradation after 28 days; Conclusion: Not readily biodegradable. (ECHA)
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 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)
CI 19140	12225-21-7 (1934-21-0)	LC50- Danio rerio fish, 100 mg/L, 96 h (OECD Guideline 203); LC50 Leuciscus idus, > 125 mg/l, 96h (OECD Guideline 203 (Fish, Acute Toxicity Test)) (ECHA)	EC50 - freshwater algae >125 mg/L, 72h (ECHA)	Biodegradation in water. Results: 27.17% (O2 consumption) after 42 days (OECD guideline 301 D); 30-40 % CO2 evolution test. (OECD 301B). Conclusion: not readily biodegradable. (ECHA)
CI 60725	81-48-1	LC50 Oncorhynchus mykiss 500 mg/L - 96h (OECD Guideline 203); (ECHA)	EC50 Desmodesmus subspicatus 1.1 mg/L – 72h (OECD Guideline for Testing of Chemicals No. 201) (ECHA) EC50 -	Results: 0% degradation after 28 days. Conclusion: Not Readily Biodegradable. (OECD Guideline 301 F) (ECHA)
CI 77499	12227-89-3	LC50 Danio rerio >= 100 000 mg/L (OECD Guideline 203) (ECHA)	Pseudokirchneriella subcapitata, >20 mg/L, 72 h (OECD Guideline 201) (ECHA) EC50 0.33 mg/L;	Biodegradation is not applicable due to the chemical nature (inorganic substance)
HYDROQUINONE	123-31-9	LC50 - Onchorhynchus mykiss, Pimephales promelas 0.638 mg/L - 96 h OECD Guideline 203) (ECHA)	EC10 or 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)
METHACRYLIC ACID	79-41-4	LC50 Oncorhynchus mykiss 85 mg/L- 96h (EPA OTS 797.1400);	ErC50 Pseudokirchnerella subcapitata 45 mg/L - 72h	Biodegradation in water; Results: 86% degradation after 28 days. Conclusion: readily

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		NOEC Oncorhynchus mykiss 12 mg/L - 96h (EPA OTS 797.1400) (ECHA)	(OECD Guideline 201) (ECHA)	biodegradable (Closed Bottle Test (OECD 301D)). (ECHA)
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12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

No 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

Not classified for transport.

14.1. UN number or ID number

Not classified for transport.

14.2. UN proper shipping name

Not classified for transport.

14.3. Transport hazard class(es)

Not classified for transport.

14.4. Packing group

Not classified for transport.

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14.5. Environmental hazards

No data available

14.6. Special precautions for user

No data available

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

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.
- H315: Causes skin irritation.
- 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.
- H410: Very toxic to aquatic life with long lasting effects.
- H411: Toxic to aquatic life with long lasting effects.
- H412: Harmful to aquatic life with long lasting effects.
- H413: May cause long lasting harmful effects to aquatic life.

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 with the correct data

End of safety data sheet