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Material Safety Data Sheet

Regulation (EC) No. 1907/2006, 1272/2008

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MSDS REPORT

GW Investments B.V.
Olen 26, 5474 Nuenen
The Netherlands

SDS Report No	:	SDS202107010003-1
Compilation Date	:	01-07-2021
Trade Name	:	NailPerfect UV/LED Sculpting Gels
Product Names	:	NailPerfect UV/LED Sculpting Gel Crystal I
		NailPerfect UV/LED Sculpting Gel Crystal II
		NailPerfect UV/LED Sculpting Gel Vibrant White
		NailPerfect UV/LED Sculpting Gel Transparent Pink
		NailPerfect UV/LED Sculpting Gel Cover Pink
		NailPerfect UV/LED Sculpting Gel Dainty Pink
		NailPerfect UV/LED Sculpting Gel Bare Pink
Compasition of the Ingredients	:	See section 3 on the SDS
Service Requested	:	Safety Data Sheet (SDS) for the requested sample.
Summary	:	The contents and the formats of the MSDS are prepared in accordance with Regulation EC No 1907/2006, 1272/2008 Regulation (EU) No 2015/830 and are provided per attached.

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SECTION 1: Identification of the Substance/Mixture and of the Company

1.1 Product Identifier
Trade Name: UV/LED Sculpting Gels
Various colors (described page 1), in packaging of various 7 mg, 14mg, 45mg.
Registration number: Data not available
Made in: GERMANY (European Union)

1.2 Relevant identified uses of the substance or mixture and uses advised against on
Application of the substance/misture: Nail Art, Manicure, Pedicure, Nailcare. PROFESSIONAL USE ONLY!

1.3 Details of the supplier of the safety data sheet
Manufacturer/Supplier:
GW Beauty B.V.
Olen 26, 5474 Nuenen
The Netherlands
Tel: +31 617648788
Email: info@gwinvestments.nl
Further information obtainable from: GW Investments B.V.

1.4 Emergency telephone number
EU and Russia: 112 (Available 24 hours per day)
UK: 999 (Available 24 hours per day)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to regulation (EC) 1272/2008:

Classification under CLP	Aquatic Chronic 3: H412; Eye Irrit. 2: H319; Aquatic Chronic 3: H412; Skin Sens. 1: H317; STOT SE 3: H335
Most important adverse effects	Irritating to eyes. Causes serious eye irritation. May cause an allergic reaction. Very toxic to aquatic organisms, may cause longterm adverse effects in the aquatic environment. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

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2.2 Label Elements

Label elements under CLP	
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.**
Signal words	WARNING
Hazard pictograms	**GHS07:** Exclamation mark 
Precautionary statements	**P280:** Wear: Protective clothing, Eye protection, protective mask, faceprotection, gloves. **P302+352: IF ON SKIN: Wash with plenty of water/soap.** **P304+340:** IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. **P305+351+338:** 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 CENTER or doctor if you feel unwell.
Label elements under CHIP	Irritant. Dangerous for the environment.
Hazard symbols	
Risk phrases	**R36:** Irritating to eyes. **R50/53:** Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Cont. Risk Phrases	**R66:** Repeated exposure may cause skin dryness or cracking. **R67:** Vapours may cause drowsiness and dizziness.
Safety phrases	**S61:** Avoid release to the environment. Refer to special instructions / safety data sheets.
Signal words	Danger

2.3 Other Hazards

Other hazards	Unknown
PBT	This substance is not identified as a PBT substance.
Signal words	WARNING

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

Hazardous ingredients:

INCI NAME	URETHANE DIMETHACRYLATE			
Mol. Formula	$C_{23}H_{38}N_2O_8$			
REACH Number	Not Listed			
Cosmetic Function	NAIL SCULPTING			
EC Number	**CAS Number**	**Chemical ID**	**CLP Classification**	**Percent**
276-957-5	72869-86-4	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa--5,12-diazahexadecane-1,16-diyl bismethacrylate	STOT SE 3: H335; Eye Irrit. 2: H319; Eye Irrit. 2: H315; Skin Sens.1; H317; Skin Irrit. 2: H315; Skin Sens. 1B: H317; Aq Chron 2; H411; Aq Chron 3; H412.	50-75

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INCI NAME	Hydroxypropyl Methacrylate			
Mol. Formula	$C_7H_{12}O_3$			
REACH Number	Not Listed			
Cosmetic Function	FILM FORMING			
EC Number	**CAS Number**	**Chemical ID**	**CLP Classification**	**Percent**
248-666-3	27813-02-1	Methacrylic acid, monoester with propane-1,2-diol	Skin Sens. 1: H317 Eye Irrit.2: H319; Muta. 2: H341; Skin Irrit. 2: H315, Skin Sens. 1B: H317; STOT SE 3: H335; Eye Dam. 1: H318; Carc. 2: H351.	5-10

INCI NAME	HEMA			
Mol. Formula	$C_6H_{10}O_3$			
REACH Number	Index No. 607-124-00-x (EU) 2020/1682 Annex III/313			
Cosmetic Function	NAIL SCULPTING			
EC Number	**CAS Number**	**Chemical ID**	**CLP Classification**	**Percent**
212-782-2	868-77-9	2-hydroxyethyl methacrylate	Skin Irrit. 2: H315; Eye Irrit. 2: H319; Skin Sens. 1: H317.	5-10

INCI NAME	ISOBORNYL METHACRYLATE			
Mol. Formula	$C_{14}H_{22}O_2$			
REACH Number	Not Listed			
Cosmetic Function	FILM FORMING			
EC Number	**CAS Number**	**Chemical ID**	**CLP Classification**	**Percent**
231-403-1	7534-94-3	Exo-1,7,7-trime-thylbicyclo[2.2.1] hept-2-yl metha-crylate	Skin Irrit. 2: H315; STOT SE 3: H335; Eye Irrit. 2: H319; Skin Sens. 1: H317; Aq. Chron. 3: H421; Aq. Chron. 2: H411.	2-10

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INCI NAME	SILICA			
Mol. Formula	O_2Si			
REACH Number	Not Listed			
Cosmetic Function	BULKING / ANTI-CRACKING			
EC Number	**CAS Number**	**Chemical ID**	**CLP Classification**	**Percent**
262-373-8	60676-86-0	Silica, vitreous	Skin Irrit. 2: H315; STOT SE 1: H370; STOT RE 1: H373; STOT SE 3: H335; STOT RE 2: H373; Eye Irrit. 2: H319; Carc. 1A.: H350.	1-10

INCI NAME	Glycol HEMA-Methacrylate			
Mol. Formula	$C_{10}H_{14}O_4$			
REACH Number	Index No. 607-114-00-5			
Cosmetic Function	NAIL CONDITIONING			
EC Number	**CAS Number**	**Chemical ID**	**CLP Classification**	**Percent**
202-617-2	97-90-5	Ethylene dimethacrylate	Skin Sens. 1: H317; STOT SE 3: H335.	2-6

INCI NAME	Hydroxycyclohexyl phenyl ketone			
Mol. Formula	$C_{13}H_{16}O_2$			
REACH Number	Not Listed			
Cosmetic Function	BINDING			
EC Number	**CAS Number**	**Chemical ID**	**CLP Classification**	**Percent**
213-426-9	947-19-3	Hydroxycyclohexyl phenyl ketone	Eye Irrit. 2: H319; Acute Tox. 4: H332; Skin Irrit. 2: H315; STOT SE 3: H335.	2-6

INCI NAME	TRIMETHYLBENZOYL DIPHENYLPHOSPHINE OXIDE			
Mol. Formula	$C_{22}H_{21}O_2P$			
REACH Number	List No: 015-203-00-x			
Cosmetic Function	SKIN CONDITIONING			
EC Number	**CAS Number**	**Chemical ID**	**CLP Classification**	**Percent**
278-355-8	75980-60-8	Diphenyl(2,4,6-trimethylbenzoyl) phosphine oxide	Repr. 2: H361F Skin Sens.1B: H317; Repr. 1B: H360; Aq. Chron. 2: H411; Skin Irrit. 2: H315; Eye Irrit. 2: H319.	0-2

INCI NAME	CI 60725			
Mol. Formula	$C_{14}H_{22}O_2$			
REACH Number	Not Listed			
Cosmetic Function	COLORANT			
EC Number	**CAS Number**	**Chemical ID**	**CLP Classification**	**Percent**
201-353-5	81-48-1	1-hydroxy-4-(p--toluidino)anthraquinone	Skin Sens. 1B: H317; Aq. Chron 4: H413; Skin Sens. 1: H317; Not Class: H413.	0-1

4.2 Composition/information on ingredients

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

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SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Skin contact	Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Eye Contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention..
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Ingestion	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

Skin contact	There may be irritation and redness at the site of contact.
Eye Contact	There may be irritation and redness. The eyes may water profusely.
Ingestion	There may be soreness and redness of the mouth and throat.
Inhalation	There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.
Delayed/ Immediate Effects	Immediate effects can be expected after short-term exposure.

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

Immediate special treatment	Eye bathing equipment should be available on the premises.

4.4. Most important symptoms and effects, both acute and delayed

Skin contact	Adverse symptoms may include the following: irritation, redness, dryness, cracking
Eye Contact	There may be irritation and redness. The eyes may water profusely.
Ingestion	There may be soreness and redness of the mouth and throat.
Inhalation	There may be irritation of the throat with a feeling of tightness in the chest. Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo
Delayed/ Immediate Effects	Immediate effects can be expected after short--term exposure.

4.5. Indication of any immediate medical attention and special treatment needed
Notes to physician Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

SECTION 5: FIRE-Fighting MEASURES

5.1 Extinguishing Media

Extinguishing Media	Use dry chemical, CO_2, water spray (fog) or foam. Do not use water jet.

5.2. Special hazards arising from the substance or mixture

Exposure hazards	In combustion emits toxic fumes.
Hazards from the substance or mixture	Data not known.

Hazardous thermal decomposition products	Decomposition products may include the following materials: carbon dioxide carbon monoxide

5.3 Advice for fire-fighters

Advice for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedurs

Personal precautions	Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.
For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel fromentering. Do not touch or walk through spilt material. Shut off all ignition sources.

For non-emergency personnel	No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also Section 8 for additional information on hygiene measures.

6.2. Environmental precautions

Environmental precautions	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Do not discharge into waterways such as drains, lakes, rivers, ocean. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Small spill	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas.

Large spill cont.	Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

6.4. Reference to other sections

Reference to other sections	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: HANDLING AND STORAGE

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handeling

Handling requirements	Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.
Protective measures	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Use only with adequate ventilation. Wearappropriate respirator when ventilation is inadequate.

Protective measures cont.	Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Temperature	Store between the following temperatures: 13 to 27°C (55.4 to 80.6°F).
Storage conditions: Exposure	Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink.
Storage conditions: Dangerous reaction	Eliminate all ignition sources. Separate from oxidizing materials.
Storage conditions: Packaging and Labeling	Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers.
Storage conditions: Regulations	Store in accordance with local regulations.

Seveso II Directive - Reporting thresholds (in tonnes)

Category	Notification and MAPP threshold	Safety report threshold
P5c: Flammable liquids 2 and 3 not falling under P5a or P5b C7b: Highly flammable (R11)	No Data	No Data

7.3. Specific end use(s)

Specific end use(s)	No data available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Hazardous ingredients

8.1. Workplace Exposure limits

Exposure Limits	No data available.

EC not classified exposure limites; ECHA 2021

8.1. DNEL/PNEC Values

DNEL/PNEC	No data available.

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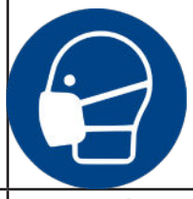
8.2. Exposure controls

Engineering measures	Ensure there is sufficient ventilation of the area. The floor of the storage room must be impermeable to prevent the escape of liquids. 
Respiratory protection	**Self-contained breathing apparatus must be available in case of emergency.** **ALWAYS use protective mask.** 
Hand protection	ALWAYS use rotective gloves. 
Eye protection	**ALWAYS use safety glasses.** **Ensure eye bath is to hand.** 
Protection of face	**Use Protective maks** 
General Theft Protection	**Keep the products locked up when not in use to prevent theft.** **Keep out of reach of children.** 

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EXPLANATORY DESCRIPTION

General Hygiene Measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. Itshould be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

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Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Eye/face protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Respiratory protection	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

State	Liquid
Colour	Various Colors
Odor	Characteristic odor.
Flash point°C	>93
Upper/lower flammability or explosive limits	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	Not available.
Solubility(ies)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available
Viscosity	Viscous

9.2. Other information

Other information	No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1.Reactivity

Reactivity	Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability	Stable under normal conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Hazardous reactions will not occur under normal transport or storage conditions. Polymerisation may occur on exposure to conditions or materials listed below. Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid	Direct sunlight. Heat.

10.5. Incompatible materials

Materials to avoid	Strong oxidizing agents. Strong acids.

10.6. Hazardous decomposition products

Reactivity	In combustion emits toxic fumes.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1..Information on toxicological effects

Hazardous ingredients

URETHANE DIMETHACRYLATE

Carcinogenicity	No Data*(European Chemical Agency)*
Acute Toxicity	No Data*(European Chemical Agency)*
Repeated Exposure Toxicity	No Data *(European Chemical Agency)*

Hydroxypropyl Methacrylate

Carcinogenicity	This conclusion is supported by comprehensive evaluations of the metabolites which states that there is no relevant concern on carcinogenicity for these reference substances (EU ESR for MMA/MAA; ATSDR for PG, respectively).
Acute Toxicity	The oral LD50 of HPMA in rats was determined to be >2000 mg/kg. The dermal LD50 in rabbits was determined to be > 2000 mg/kg. Based on the LD50 values, HPMA is not classified for acute toxicity. (ECHA, 2021)
Repeated Exposure Toxicity	not classified for repeated dose toxicity.

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HEMA

Carcinogenicity	There is no relevant concern on carcinogenicity in humans and animals *(EU Risk Assessment Report for MMA (2002); (European Chemical Agency)*
Acute Toxicity	Based on the LD50 values, HEMA is not classified for acute toxicity. *(European Chemical Agency)*
Repeated Exposure Toxicity	HEMA is not classified for repeated dose toxicity.No severe or irreversible effects were identified. CLP criteria are not met NOAEL >= 100 mg/kg. *(European Chemical Agency)*

ISOBORNYL ACRYLATE

Carcinogenicity	This conclusion is supported by comprehensive evaluations of the metabolites which states that there is no relevant concern on carcinogenicity for these reference substances (EU ESR for MMA/MAA; ATSDR for PG, respectively).
Acute Toxicity	According to the criteria as of directive 1272/2008/EC, no classification is warranted for the acute toxicity. According to the criteria as of UN-GHS, Cat 5 oral is warranted for the acute toxicity. Due to the low vapour pressure of the substance, inhalation is not considered as a relevant pathway of exposure. (ECHA, 2021)
Repeated Exposure Toxicity	According to the criteria as of directive 1272/2008/EC und UN GHS, no classification is warranted.

SILICA

Carcinogenicity	no data *(echa 2021)*
Acute Toxicity	no data *(European Chemical Agency)*
Repeated Exposure Toxicity	no data *(European Chemical Agency)*

Glycol HEMA-Methacrylate

Carcinogenicity	No carcinogenicity study is available. *(echa 2021)*
Acute Toxicity	As oral and dermal LD50 are higher than 2000 mg/kg bw in rats, Ethyleneglycol dimethacrylate is not classified according to the Annex VI to the Directive 67/548/EEC and the CLP Regulation (EC) N° (1272-2008) nor according to UN-GHS. *(European Chemical Agency)*
Repeated Exposure Toxicity	In a valid guideline study, the the no-observed adverse effect level (NOAEL) is 100 ppm for the male and female rats exposed by whole body inhalation for 90 days. *(European Chemical Agency)*

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Hydroxycyclohexyl phenyl ketone

Carcinogenicity	No data Echa as of 2021.
Acute Toxicity	Classification, Labelling, and Packaging Regulation (EC) No. 1272/2008 The available experimental test data are reliable and suitable for classification purposes under Regulation 1272/2008. As a result the substance is not considered to be classified for acute toxicity under Regulation (EC) No. 1272/2008. (ECHA, 2021)
Repeated Exposure Toxicity	The available experimental test data are reliable and suitable for classification purposes under Regulation 1272/2008. As a result the substance is not considered to be classified for repeated dose toxicity under Regulation (EC) No. 1272/2008.

Trimethylbenzoyl diphenylphosphine oxide

Carcinogenicity	No data Echa as of 2021.
Acute Toxicity	Based on the results of the available studies, diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide is not required to be classified for its acute toxicity potential according to 67/548/EEC and CLP/EU-GHS requirements. (Echa, 2021)
Repeated Exposure Toxicity	No evidence, but pressed by Germany as a repeated exposure threat. Echa 2021

10.4. Conditions to avoid

Conditions to avoid	Direct sunlight. Heat.

10.5. Incompatible materials

Materials to avoid	Strong oxidizing agents. Strong acids.

10.6. Hazardous decomposition products

Reactivity	In combustion emits toxic fumes.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1..Information on toxicological effects

INFORMATION AVAILABLE THROUG ECHA.EU - Toxidity reports
11.2.Symptoms / routes of exposure

Skin contact	There may be irritation and redness at the site of contact. Cracking.
Eye contact	There may be irritation and redness. The eyes may water profusely
Ingestion	There may be soreness or redness of the mouth and throat.
Inhalation	Adverse symptoms may include the following: nausea or vomiting, headache, drowsiness/fatigue, dizziness/vertigo
Delayed / immediate effects: General	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
Delayed / immediate effects: Carcinogenicity	No known significant effects or critical hazards.
Delayed / immediate effects: Mutagenicity	No known significant effects or critical hazards.
Delayed / immediate effects: Teratogenicity	No known significant effects or critical hazards.
Delayed / immediate effects: Developmental effects	No known significant effects or critical hazards.
Delayed / immediate effects: Fertility effects	No known significant effects or critical hazards.

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SECTION 12: ECOLOGICAL INFORMATION

12.1.Toxicity

For information see European Chemical Agency at ECHA.EU

12.2. Persistence and degradability

Persistence and degradability	Biodegradable

12.3. Bioaccumulative potential

For information see European Chemical Agency at ECHA.EU

12.4. Mobility in soil

Soil/water partition coefficient (KOC)	Not available.
Mobility	Readily absorbed into soil.

12.5. Results of PBT and vPvB assessment

PBT identification	This product is not identified as a PBT substance.
vPvB identification	This product is not identified as a **vPvB** substance.

12.6. Other adverse effects

Other adverse effects	Negligible ecotoxicity.

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SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Disposal operations	The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor. Waste should not bedisposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	The classification of the product may meet the criteria for a hazardous waste.
Hazardous waste	The generation of waste should be avoided or minimised wherever possible. Wastepackaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	This material and its container must be disposed of in a safe way. Care should betaken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

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SECTION 14: TRANSPORT INFORMATION

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	None	None	None	None
14.2 UN proper shipping name	None	None	None	None
14.3 Transport hazard class(es)	None	None	None	None
14.4 Packing group	None	None	None	None
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	-

14.6. Special precautions for user

Special precautions	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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

Special precautions	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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SECTION 15: TRANSPORT INFORMATION

15.1. Safety, health and environmental regulation/legislation specific for the substance or mixture
EU Regulation (EC) No. 1907/2006 (REACH)
Annex XIV - List of substances subject to authorisation

Annex XIV	None of the components are listed.
Substances of very high concern	None of the components are listed.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not applicable.
Other EU regulations Europe inventory	All components are listed or exempted.
Seveso II Directive	Not applicable.
Danger criteria : Category	Not applicable.
15.2 Chemical Safety Assessment	Unknown

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SECTION 16: OTHER INFORMATION

Other information:

Other information	This safety data sheet is prepared in accordance with Regulation (EC) No 453/2010 * Indicates text in the SDS which has changed since the last revision
Phrases used in s.2 and 3	H302: Harmful if swallowed. H315: Causes skin irritation. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H335: May cause respiratory irritation. H361f: Suspected of damaging fertility. H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects. H412: Harmful to aquatic life with long lasting effects.

Abbreviations and acronyms	ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number vPvB = Very Persistent and Very Bioaccumulative

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Aquatic Chronic 3, H412 Eye Irrit. 2, H319 Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H336	LONG-TERM AQUATIC HAZARD - Category 3 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Narcotic effects] - Category 3
Phrases used in s.2 and 3	EUH066: Repeated exposure may cause skin dryness or cracking. H315: Causes skin irritation. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H336: May cause drowsiness or dizziness. H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects. H412: Harmful to aquatic life with long lasting effects. R10: Flammable. R11: Highly flammable R36/38: Irritating to eyes and skin.
Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H336 (Narcotic effects) Aquatic Chronic 3, H412	Calculation method Calculation method Calculation method Calculation method

Legal disclaimer	The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

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The contents and format of this SDS are in accordance with REgulation (EC) No. 1907/2006, 1272/2008 and Regulation (EU) No. 2015/830.

DISCLAIMER OF LIABILITY:
The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methos of handling, storage, use or disposal of the product are beyond our control and may be behound our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

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Abbriviations and acronyms

COMMON ABRIVIATIONS WHICH MAY OR MAY NOT BE USED IN THIS MSDS SHEET.

˚C	Degrees in Centigrade
˚F	Degrees in Farenheit
ADR	Accord European sur le transport des marchandises dangereuse par Route (European Agreement concerning the International
ATE	Acute Toxicity Estimate
CAS Number	Chemical Abstract Service - Registry number. Identification number for a specific substance.
CLP	Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
EC Number	Enzyme Commission Number. Numerical classification for enzymes. Specific number.
EC25	Effect Concentration e.g. EC25 - is at 25%
IMDG	International Maritime Code for Dangerous Goods.
IATA	Internatinal Air Transport Association
GHS	Globally Harmonized System of Classification and Labeling of Chemicals
LC50	The concentration of a material in air which, on the basis of laboratory tests, is expected to kill 50% of a group
LOEC	Lowest concentration where an effect has been observed in chronic ecotoxicity studies

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COMMON ABRIVIATIONS WHICH MAY OR MAY NOT BE USED IN THIS MSDS SHEET.

Log Pow	A product's ability to bioaccumulate through the food chain
mg/L	Miligrams per Liter
MSDS	Material Safety Data Sheet
N/E	Not Explored - No data available.
NOEC	No Observed Effect Concentration
NOEL	No Observed Effect Level
RRN	REACH Registration Number
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No Effect Concentration
SDS	Safety Data Sheet
SVHC	Substance of Very High Concern
EUH statement	CLP-specific Hazard statement
vPvB	Very Persistent and Very Bioaccumulative

Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H336 (Narcotic effects) Aquatic Chronic 3, H412	Calculation method Calculation method Calculation method Calculation method

The following page contains explanation of abriviative warnings which may or may not be of concern to this SDS. See section 2 and 3 to determine if these warnings are applicable to this product!

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COMMON WARNINGS WHICH MAY OR MAY NOT BE USED IN THIS MSDS SHEET: See section 2 and 3 which are applicable to this product.	
H220:	Extremely flammable gas
H225:	Highly flammable liquid and vapour
H226:	Flammable liquid and vapour
H241:	Heating may cause a fire or explosion
H242:	Heating may cause a fire
H302:	Harmful if swallowed.
H312:	Harmful in contact with skin or if inhaled
H313:	May be harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315:	Causes skin irritation.
H316:	Causes mild skin irritation
H317:	May cause an allergic skin reaction.
H318:	Causes serious eye damage.
H319:	Causes serious eye irritation.
H330	Fatal if inhaled
H332:	Harmful if inhaled
H334:	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335:	May cause respiratory irritation.
H336:	May cause respiratory irritation
H340:	May cause genetic defects (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)
H341:	Suspected of causing genetic defects (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)
H350:	May cause cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)
H351:	Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)
H361f:	Suspected of damaging fertility.
H370:	Causes damage to organs (or state all organs affected, if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)

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COMMON WARNINGS WHICH MAY OR MAY NOT BE USED IN THIS MSDS SHEET: See section 2 and 3 which are applicable to this product.	
Acute Tox. 1	ACUTE TOXIDITY - Category 1 *Falal if Inhaled*
Acute Tox. 2	ACUTE TOXIDITY - Category 2 *Falal if Inhaled*
Acute Tox. 3	ACUTE TOXIDITY - Category 3 *Toxic if inhaled*
Acute Tox. 4	ACUTE TOXIDITY - Category 4 *Harmful if inhaled*
Aq.Chron. 1	LONG-TERM AQUATIC HAZARD - Category 1
Aq.Chron. 2	LONG-TERM AQUATIC HAZARD - Category 2
Aq.Chron. 3	LONG-TERM AQUATIC HAZARD - Category 3
Carc. 1A	CARCINOGEN - Category 1 *Known to have carcinogen potential for humans*
Carc. 1B	CARCINOGEN - Category 1 *Presumed to have carcinogen potential for humans*
Carc. 2	CARCINOGEN - Category 2 *Limited evidence from studies*
Eye Dam. 1	SERIOUS EYE DAMAGE - Category 1 *Irreversable effects on the eye*
Eye Irrit. 2	SERIOUS EYE IRRITATION - Category 2 *Irritating to eyes. Fully reversable normally in 21 days or less.*
Eye Irrit. 2B	EYE IRRITATION - Category 2B *Mildly irritating to eyes. Fully reversable in 7 days.*
Flam. Liq. 1	FLAMMABLE LIQUIDS - Category 1 *Flashpoint <23˚C (73.4˚F) and initial boiling point <35˚C (95˚F)*
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2 (Flashpoint <23˚C (73.4˚F) and initial boiling point >35˚C (95˚F))
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 1 *Flashpoint >23˚C (73.4˚F) and initial boiling point <60˚C (140˚F)*
Muta. 1A	MUTATION OF CELLS - Category 1 *Known to induce heritable mutations in germ cells of humans*

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COMMON WARNINGS WHICH MAY OR MAY NOT BE USED IN THIS MSDS SHEET: See section 2 and 3 which are applicable to this product.	
H371:	May cause damage to organs (or state all organs affected, if known)(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)
H372:	Causes damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)
H373:	May cause damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)
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
EUH066:	Repeated exposure may cause skin dryness or cracking.
For Professional Use Only	Shoudl be used by professionally trained personell only. Specific training for this product needed.

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COMMON WARNINGS WHICH MAY OR MAY NOT BE USED IN THIS MSDS SHEET: See section 2 and 3 which are applicable to this product.	
Muta. 1B	MUTATION OF CELLS - Category 1 *Regarded as if induce heritable mutations in germ cells of humans*
Muta. 1B	MUTATION OF CELLS - Category 2 *Causes concern for the possibility of causing heritable mutations in germ cells of humans*
Rep. 2	REPRODUCTIVE TOXIDITY - Category 2 *Evidence from human studies is limited. May spread through breastfeeding*
Resp. Sens. 1A	RESPITORY SENSITIZATION - Category 1 *Evidence in Humans that the substance can induce respiratory hypersensitivity*
Resp. Sens 1B	RESPITORY SENSITIZATION - Category 1 *Suspected that the substance can induce respiratory hypersensitivity*
Skin Corr. 1	SKIN CORROSION - Category 1 *Irreversable effects on the skin*
Skin Corr. 1A	SKIN CORROSION - Category 1A *Irreversable effects on the skin in less than 3 minutes exposure*
Skin Corr. 1B	SKIN CORROSION - Category 1B *Irreversable effects on the skin in 3 minutes - 60 minutes exposure*
Skin Irrit. 2	SKIN IRRITATION - Category 2 *Causes reversable skin irritation effects. Recovery within 21 days to be expected.*
Skin Sens. 1	SKIN SENSITIZATION - Category 1 *Causing significant sensitization in humans when on skin*
Skin Sens. 1A	SKIN SENSITIZATION - Category 1 *Causing significant sensitization in humans when on skin*
Skin Sens. 1B	SKIN SENSITIZATION - Category 1 *Low to moderate fequency of causing significant sensitization in humans*
Skin Sens. 2	SKIN SENSITIZATION - Category 2 *Low chance of skin sensitization in humans*

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COMMON WARNINGS WHICH MAY OR MAY NOT BE USED IN THIS MSDS SHEET: See section 2 and 3 which are applicable to this product.	
STOT SE 1	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 *Potential to produce significant toxidity in humans following a single exposure.*
STOT SE 2	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 2 *Potential to be harmful in human health after a single exposure.*
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3 *Potential to cause narcotic effects (dizziness, drowsiness) and respiratory tract irritation (sore throat, caugh). These effects are temporary/ not long term.*
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 *Potential to be harmful in human health after a repeated exposures.*

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End of safety data sheet