

UV RESIN - G+Y

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 7/23/2024 Revision date: 7/23/2024 Version: 1.0 SDS number: SZHH0195483801-1

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

1.1. Product identifier

Product form : Liquid
Product name : UV RESIN - G+Y
UFI code : E300-900C-P00T-CG1W

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

Relevant identified uses

Use of the substance/mixture : Artcraft

1.3. Details of the supplier of the safety data sheet

MGA ENTERTAINMENT (NETHERLANDS) B.V
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1.4. Emergency telephone number

MGA ENTERTAINMENT (NETHERLANDS) B.V
Emergency telephone numbers: +31 (0) 172 758 038 (Operation hours: 9:00 to 17:30)
E-mail: klantenservice@mgae.com
FR - Tél. : 0 805 98 54 69
Adresse électronique : aide@mgae.biz
ES - Tel: 900 997 941
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PL - Tel: +48 59 847 4417
IT - Tel: 800 728 088
Email: supporto@mgae.biz
UK - Tel: 0800 521 558
Email: ukconsumerservices@mgae.com

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Skin sensitisation, category 1A	H317
Specific target organ toxicity – Single exposure, Category 3,	H335
Respiratory tract irritation	
Hazardous to the aquatic environment – Chronic Hazard, Category 3	H412

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

May cause respiratory irritation. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS07

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Signal word (CLP)	: Warning
Hazard statements (CLP)	: 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 (CLP)	: P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children. P261 - Avoid breathing vapours. P264 - Wash hands thoroughly after handling. P312 - Call a doctor if you feel unwell. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P405 - Store locked up P501 - Dispose of contents/container to a household waste recycling centre as hazardous waste except for empty container.

2.3. Other hazards

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1 %.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate and methyl 2-methyl-2-propenoate	CAS-No.: 25035-69-2	60 – 80	Not classified
2-Oxepanone, polymer with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol and 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane, 2-hydroxyethyl acrylate-terminated	CAS-No.: 68987-79-1	55 – 75	Not classified
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate; isobornyl acrylate	CAS-No.: 5888-33-5 EC-No.: 227-561-6 EC Index-No.: 607-756-00-6	36 – 41	Skin Sens. 1A, H317
2-hydroxyethyl methacrylate	CAS-No.: 868-77-9 EC-No.: 212-782-2 EC Index-No.: 607-124-00-X	21 – 24	Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens. 1, H317
(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	CAS-No.: 42978-66-5 EC-No.: 256-032-2 EC Index-No.: 607-249-00-X	10 – 12.9	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 2, H411
1-Propanone, 2-hydroxy-2-methyl-1-phenyl-	CAS-No.: 7473-98-5 EC-No.: 231-272-0	7 – 8	Acute Tox. 4 (Oral), H302 (ATE=1694 mg/kg bodyweight) Aquatic Chronic 3, H412
Hydrated amorphous silica	CAS-No.: 10279-57-9	3 – 5.66	Not classified

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-hydroxyethyl acrylate	CAS-No.: 818-61-1 EC-No.: 212-454-9 EC Index-No.: 607-072-00-8	1 – 1.58	Acute Tox. 3 (Dermal), H311 (ATE=300 mg/kg bodyweight) Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1)
GLYCERYL CAPRYLATE	CAS-No.: 26402-26-6 EC-No.: 247-668-1	0 – 0.94	Not classified
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide substance listed on REACH Candidate List	CAS-No.: 75980-60-8 EC-No.: 278-355-8 EC Index-No.: 015-203-00-X	0 – 0.89	Repr. 2, H361f
Mica	CAS-No.: 12001-26-2 EC-No.: 310-127-6	0 – 0.6	Not classified
[bis(4-methylphenyl)phosphoryl](mesityl)methanone	CAS-No.: 270586-78-2	0 – 0.5	Not classified
FD and C Yellow No. 6	CAS-No.: 2783-94-0 EC-No.: 220-491-7	0 – 0.05	Not classified
FD and C Red No. 40	CAS-No.: 25956-17-6 EC-No.: 247-368-0	0 – 0.05	Not classified
ACID RED 27	CAS-No.: 915-67-3 EC-No.: 213-022-2	0 – 0.05	Eye Irrit. 2, H319
Spiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one, 6'-(diethylamino)-3'-methyl-2'-(phenylamino)-	CAS-No.: 29512-49-0 EC-No.: 249-676-0	0 – 0.05	Not classified
ACID BLUE 9	CAS-No.: 3844-45-9 EC-No.: 223-339-8	0 – 0.05	Not classified
Titanium dioxide(20-60um)	CAS-No.: 13463-67-7 EC-No.: 236-675-5	0 – 0.05	Not classified
Siloxanes and silicones, dimethyl, 3-hydroxypropyl methyl, ethers with polyethylene glycol monomethyl ether	CAS-No.: 68938-54-5	0 – 0.019	Acute Tox. 4 (Inhalation), H332 (ATE=1.5 mg/l/4h) Aquatic Chronic 2, H411
DENATONIUM BENZOATE	CAS-No.: 3734-33-6 EC-No.: 223-095-2	0 – 0.0004	Acute Tox. 4 (Oral), H302 (ATE=584 mg/kg bodyweight) Acute Tox. 2 (Inhalation:dust,mist), H330 (ATE=0.2 mg/l/4h) Eye Dam. 1, H318

Specific concentration limits:

Name	Product identifier	Specific concentration limits (%)
(1-methyl-1,2-ethanediy)bis[oxy(methyl-2,1-ethanediy)] diacrylate	CAS-No.: 42978-66-5 EC-No.: 256-032-2 EC Index-No.: 607-249-00-X	(10 ≤ C ≤ 100) STOT SE 3; H335
2-hydroxyethyl acrylate	CAS-No.: 818-61-1 EC-No.: 212-454-9 EC Index-No.: 607-072-00-8	(0.2 ≤ C ≤ 100) Skin Sens. 1; H317

Full text of H- and EUH-statements: see section 16

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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Call a poison center or a doctor if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest. Call a poison center or a doctor if you feel unwell. Obtain medical attention if breathing difficulty persists.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. Seek medical attention if ill effect or irritation develops.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Seek medical attention if ill effect or irritation develops.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Eye irritation.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire	: Toxic fumes may be released. Thermal decomposition can lead to the release of irritating gases and vapours.
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5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protective equipment for firefighters	: Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment	: Wear recommended personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection". Wear suitable protective clothing. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Ventilate spillage area. Evacuate unnecessary personnel. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

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For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".
- Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- For containment : Collect spillage.
- Methods for cleaning up : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
- Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of residues refer to section 13 : "Disposal considerations".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapour. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Wear personal protective equipment.
- Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep container tightly closed in a cool, well-ventilated place. Keep container closed when not in use. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.
- Packaging materials : PP/PE.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

2-hydroxyethyl methacrylate (868-77-9)	
Lithuania - Occupational Exposure Limits	
Local name	Etilenglikolio metakrilo eteris
IPRV (OEL TWA)	20 mg/m ³
Remark	J (jautrinantis poveikis)
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)
Norway - Occupational Exposure Limits	
Local name	2-hydroksyetylmetakrylat

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2-hydroxyethyl methacrylate (868-77-9)	
Grenseverdi (OEL TWA)	11 mg/m ³
	2 ppm
Remark	A: Kjemikalier som skal betraktes som at de fremkaller allergi eller annen overfølsomhet i øynene eller luftveier, eller som skal betraktes som at de fremkaller allergi ved hudkontakt.
Regulatory reference	FOR-2023-12-18-2278
2-hydroxyethyl acrylate (818-61-1)	
Denmark - Occupational Exposure Limits	
Local name	2-Hydroxyethylacrylat
OEL TWA	5 mg/m ³
	1 ppm
OEL STEL	10 mg/m ³
	2 ppm
Remark	H (betyder, at stoffet kan optages gennem huden)
OEL chemical category	Potential for cutaneous absorption
Regulatory reference	BEK nr 291 af 19/03/2024
Estonia - Occupational Exposure Limits	
Local name	2-hüdroksüetüülakrülaat
OEL TWA	5 mg/m ³
	1 ppm
OEL STEL	10 mg/m ³
	2 ppm
Remark	A (Naha kaudu kergesti imenduv aine), S (Sensibiliseeriv aine)
OEL chemical category	Skin notation, Sensitizer
Regulatory reference	Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 21.12.2022, 3)
Latvia - Occupational Exposure Limits	
Local name	Akrilskābes 2-hidroksietilesteris (2-hidroksietilakrilāts)
OEL TWA	0.5 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2024. gada 26. martā noteikumiem Nr. 191).
Lithuania - Occupational Exposure Limits	
Local name	2-hidroksietilakrilatas (etilenglikolio akrilo eteris)
IPRV (OEL TWA)	5 mg/m ³
	1 ppm
TPRV (OEL STEL)	10 mg/m ³
	2 ppm
Remark	J (jautrinantis poveikis); O (medžiaga į organizmą gali prasiskverbti pro nepažeistą odą)
OEL chemical category	Sensitizer, Skin notation
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)

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2-hydroxyethyl acrylate (818-61-1)	
Sweden - Occupational Exposure Limits	
Local name	2-Hydroxietylakrylat
NGV (OEL TWA)	5 mg/m ³
	1 ppm
KGV (OEL STEL)	10 mg/m ³
	2 ppm
Remark	H (Ämnet kan lätt upptas genom huden. Det föreskrivna gränsvärdet bedöms ge tillräckligt skydd endast under förutsättning att huden är skyddad mot exponering för ämnet ifråga); M (Medicinska kontroller kan krävas för hantering av ämnet. Se vidare föreskrifterna om medicinska kontroller i arbetslivet. För vissa ämnen ska arbetsgivaren erbjuda läkarundersökning och för andra ämnen gäller krav på periodisk läkarundersökning och tjänstbarhetsbedömning); S (Ämnet är sensibiliserande. Sensibiliserande ämnen kan ge allergi eller annan överkänslighet. Överkänslighetsbesvären drabbar främst huden eller andningsorganen. Överkänslighet innebär att man reagerar vid kontakt med ämnen som normalt inte ger besvär. Allergi är en undergrupp av överkänslighet som orsakas av reaktioner i kroppens immunsystem. Särskilt låga gränsvärden har fastställts för ämnen med mer uttalat luftvägssensibiliserande egenskaper. Några ämnen med starkt sensibiliserande egenskaper får endast hanteras efter tillstånd från Arbetsmiljöverket, se föreskrifterna om kemiska arbetsmiljörisiker. Dessa ämnen har inga gränsvärden men i vissa fall riktvärden); V (Vägledande korttidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas)
OEL chemical category	Skin notation, Sensitizer
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
Iceland - Occupational Exposure Limits	
Local name	2-Hýdroxýetylakrýlat
OEL TWA	5 mg/m ³
	1 ppm
Remark	H (efnið getur auðveldlega borist inn í líkamann gegnum húð), O (efnið er ofnæmisvaldandi)
Regulatory reference	Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009)
Mica (12001-26-2)	
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	10 mg/m ³
Remark	inhalable aerosol
Belgium - Occupational Exposure Limits	
Local name	Mica # Mica
OEL TWA	3 mg/m ³
Regulatory reference	Koninklijk besluit/Arrêté royal 16/11/2023
Czech Republic - Occupational Exposure Limits	
Local name	Slída
PEL (OEL TWA)	2 mg/m ³ (pro respirabilní frakci, ≤ 5 % křemen, kristobalit, tridymit nebo gama-oxid hlinitý) 10 mg/m ³ (pro celkovou koncentraci)
Remark	Prachy s převážně fibrogenným účinkem.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 330/2023 Sb.)

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Mica (12001-26-2)	
Denmark - Occupational Exposure Limits	
OEL TWA	0.3 mg/m ³
OEL STEL	0.3 mg/m ³
Ireland - Occupational Exposure Limits	
Local name	Mica
OEL TWA	10 mg/m ³ total inhalable dust 0.8 mg/m ³ respirable dust
Remark	Advisory OELV (Advisory Occupational Exposure Limit Values)
Regulatory reference	Chemical Agents Code of Practice 2024
Portugal - Occupational Exposure Limits	
Local name	Mica
OEL TWA	3 mg/m ³ R (Fração respirável)
Regulatory reference	Norma Portuguesa NP 1796:2014
Romania - Occupational Exposure Limits	
Local name	Mică (fără fibre de azbest și fără cuarț ≥ 1%)
OEL TWA	3 mg/m ³ fracție respirabilă
Regulatory reference	Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 53/2021)
Spain - Occupational Exposure Limits	
Local name	Mica
VLA-ED (OEL TWA)	3 mg/m ³ Fracción respirable
Remark	d (Véase UNE EN 481: Atmósferas en los puestos de trabajo. Definición de las fracciones por el tamaño de las partículas para la medición de aerosoles), e (Este valor es para la materia particulada que no contenga amianto y menos de un 1% de sílice cristalina).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2024. INSHT
United Kingdom - Occupational Exposure Limits	
Local name	Mica
WEL TWA (OEL TWA)	10 mg/m ³ inhalable aerosol 0.8 mg/m ³ respirable aerosol
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Switzerland - Occupational Exposure Limits	
Local name	Mica / Glimmer
MAK (OEL TWA)	3 mg/m ³
Remark	respirable aerosol
Regulatory reference	www.suva.ch, 01.01.2024
Titanium dioxide(20-60um) (13463-67-7)	
Austria - Occupational Exposure Limits	
Local name	Titandioxid (Alveolarstaub)
MAK (OEL TWA)	5 mg/m ³ (alveolar dust, respirable fraction)
MAK (OEL STEL)	10 mg/m ³ (alveolar dust, respirable fraction)
Regulatory reference	BGBl. II Nr. 156/2021

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Titanium dioxide(20-60um) (13463-67-7)	
Belgium - Occupational Exposure Limits	
Local name	Titane (dioxyde de) # Titaandioxide
OEL TWA	10 mg/m ³
Regulatory reference	Koninklijk besluit/Arrêté royal 16/11/2023
Bulgaria - Occupational Exposure Limits	
Local name	Титанов диоксид
OEL TWA	10 mg/m ³ (respirable dust)
Regulatory reference	Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа (изм. и доп. ДВ. бр. 28 от 2024 г., в сила от 05.04.2024 г.)
Croatia - Occupational Exposure Limits	
Local name	Titanov dioksid
GVI (OEL TWA)	10 mg/m ³ (total dust, inhalable particles) 4 mg/m ³ (respirable dust)
Regulatory reference	Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 148/2023)
Denmark - Occupational Exposure Limits	
Local name	Titandioxid
OEL TWA	6 mg/m ³
OEL STEL	12 mg/m ³
Remark	K (betyder, at stoffet anses for at kunne være kræftfremkaldende)
Regulatory reference	BEK nr 291 af 19/03/2024
Estonia - Occupational Exposure Limits	
Local name	Titaanoksiid
OEL TWA	5 mg/m ³
Regulatory reference	Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 21.12.2022, 3)
France - Occupational Exposure Limits	
Local name	Titane (dioxyde de), en Ti (Dioxyde de titane)
VME (OEL TWA)	10 mg/m ³
Remark	Valeurs recommandées/admises. Cancérogène de catégorie 2
OEL chemical category	Carcinogen category 2
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 6443, 2022; Outil65)
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA)	1.25 mg/m ³ (respirable fraction (dust)) 10 mg/m ³ (inhalable fraction (dust))
Greece - Occupational Exposure Limits	
Local name	Τιτανίου διοξειδίο
OEL TWA	10 mg/m ³ (inhalable fraction) 5 mg/m ³ (respirable fraction)
Regulatory reference	Π.Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους

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Titanium dioxide(20-60um) (13463-67-7)	
Ireland - Occupational Exposure Limits	
Local name	Titanium dioxide
OEL TWA	10 mg/m ³ (total inhalable dust) 4 mg/m ³ (respirable dust)
OEL STEL	30 mg/m ³ (calculated-respirable dust) 12 mg/m ³ (calculated)
Remark	Advisory OELV (Advisory Occupational Exposure Limit Values)
Regulatory reference	Chemical Agents Code of Practice 2024
Latvia - Occupational Exposure Limits	
Local name	Titāna dioksīds
OEL TWA	10 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2024. gada 26. martā noteikumiem Nr. 191).
Lithuania - Occupational Exposure Limits	
Local name	Titano dioksidas
IPRV (OEL TWA)	5 mg/m ³
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)
Poland - Occupational Exposure Limits	
Local name	Ditlenek tytanu
NDS (OEL TWA)	10 mg/m ³ (the concentration of the respirable Crystalline silica fraction is determined simultaneously-inhalable fraction)
Remark	Fracja wdychalna – frakcja aerozolu wnikażąca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia. Obowiązuje jednocześnie oznaczanie stężeń frakcji respirabilnej krzemionki krystalicznej.
Regulatory reference	Dz. U. 2018 poz. 1286 wraz z późn. zm.
Portugal - Occupational Exposure Limits	
Local name	Dióxido de titânio
OEL TWA	10 mg/m ³
OEL chemical category	A4 - Not Classifiable as a Human Carcinogen
Remark	A4 (Agente não classificável como carcinogénico no Homem)
Regulatory reference	Norma Portuguesa NP 1796:2014
Romania - Occupational Exposure Limits	
Local name	Dioxid de titan
OEL TWA	10 mg/m ³
OEL STEL	15 mg/m ³
Regulatory reference	Hotărârea Guvernului nr. 1.218/2006 (Hotărârea nr. 53/2021)
Slovakia - Occupational Exposure Limits	
Local name	Oxid titaničitý
NPHV (OEL TWA)	5 mg/m ³
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (122/2024 Z. z.)

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Titanium dioxide(20-60um) (13463-67-7)	
Spain - Occupational Exposure Limits	
Local name	Dióxido de titanio
VLA-ED (OEL TWA)	10 mg/m ³
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2024. INSHT
Sweden - Occupational Exposure Limits	
Local name	Titandioxid
NGV (OEL TWA)	5 mg/m ³ (total dust)
Remark	3 (Med totaldamm menas de partiklar (aerosoler) som fastnar på ett filter i den provtagare som beskrivs i Metodserien, Provtagnings av totaldamm och respirabelt damm, Metod nr 1010, Arbetskyddsstyrelsen, numera Arbetsmiljöverket. Filterdiametern är normalt 37 mm, men kan även vara 25 mm. Trots sitt namn provtas inte den totala mängden luftburna partiklar med denna metod)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom - Occupational Exposure Limits	
Local name	Titanium dioxide
WEL TWA (OEL TWA)	10 mg/m ³ (total inhalable) 4 mg/m ³ (respirable)
WEL STEL (OEL STEL)	30 mg/m ³ (calculated-total inhalable) 12 mg/m ³ (calculated-respirable)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Iceland - Occupational Exposure Limits	
Local name	Titandíoxíð, sem Ti
OEL TWA	6 mg/m ³
Regulatory reference	Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009)
Norway - Occupational Exposure Limits	
Local name	Titandioksid
Grenseverdi (OEL TWA)	5 mg/m ³
Korttidsverdi (OEL STEL)	10 mg/m ³ (value calculated)
Regulatory reference	FOR-2023-12-18-2278
Switzerland - Occupational Exposure Limits	
Local name	Dioxyde de titane / Titandioxid
MAK (OEL TWA)	3 mg/m ³ (respirable dust) 3 mg/m ³ (total dust limit values) 10 mg/m ³ (total dust limit values)
Notation	SS _c / SS _c
Remark	NIOSH
Regulatory reference	www.suva.ch, 01.01.2024

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

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Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Eye and face protection

Eye protection:

Chemical goggles or safety glasses. Use eye protection according to ISO 16321-1. Safety glasses

Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Wear protective gloves. Wear suitable gloves tested to ISO 374-1. protective gloves

Respiratory protection

Respiratory protection:

Wear appropriate mask. Wear suitable respiratory equipment in case of insufficient ventilation

Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: various
Odour	: Not available
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Non flammable.
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: Not available
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

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10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Hazardous polymerization will not occur.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Siloxanes and silicones, dimethyl, 3-hydroxypropyl methyl, ethers with polyethylene glycol monomethyl ether (68938-54-5)

ATE CLP (dust,mist)	1.5 mg/l/4h
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Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide (75980-60-8)

LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
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LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity), Guideline: other:Japan MAFF Testing Guideline of 12 Nosan No. 8147
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DENATONIUM BENZOATE (3734-33-6)

LD50 oral rat	584 mg/kg (Source: NLM_CIP)
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LD50 dermal rat	> 2000 mg/kg (Source: ECHA_API)
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LC50 Inhalation - Rat	0.2 mg/l/4h
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2-hydroxyethyl acrylate (818-61-1)

LD50 dermal rabbit	298 mg/kg
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exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate; isobornyl acrylate (5888-33-5)

LD50 oral rat	4890 mg/kg (Source: NLM_CIP)
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LD50 dermal rabbit	> 3000 mg/kg
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1-Propanone, 2-hydroxy-2-methyl-1-phenyl- (7473-98-5)

LD50 oral rat	1694 mg/kg (Source: NLM_CIP)
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LD50 dermal rat	6929 mg/kg (Source: ECHA_API)
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(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate (42978-66-5)

LD50 oral rat	6200 mg/kg (Source: NLM_CIP)
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FD and C Yellow No. 6 (2783-94-0)	
LD50 oral rat	> 10000 mg/kg (Source: CHEMVIEW)
LD50 dermal rat	> 2000 mg/kg (Source: ECHA_API)
FD and C Red No. 40 (25956-17-6)	
LD50 oral rat	> 10 g/kg (Source: CHEMVIEW)
LD50 dermal rabbit	10000 mg/kg (Source: NLM_HSDB)
Spiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one, 6'-(diethylamino)-3'-methyl-2'-(phenylamino)- (29512-49-0)	
LD50 oral rat	> 2000 mg/kg (Source: CHEMVIEW)
Titanium dioxide(20-60um) (13463-67-7)	
LD50 oral rat	> 10000 mg/kg (Source: IUCLID)
LC50 Inhalation - Rat	5.09 mg/l/4h
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
FD and C Yellow No. 6 (2783-94-0)	
IARC group	3 - Not classifiable
ACID RED 27 (915-67-3)	
IARC group	3 - Not classifiable
ACID BLUE 9 (3844-45-9)	
IARC group	3 - Not classifiable
Titanium dioxide(20-60um) (13463-67-7)	
IARC group	2B - Possibly carcinogenic to humans
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
11.2. Information on other hazards	
Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye
SECTION 12: Ecological information	
12.1. Toxicity	
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Harmful to aquatic life with long lasting effects.
DENATONIUM BENZOATE (3734-33-6)	
LC50 - Fish [1]	> 100 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 72h - Algae [1]	281556 mg/l Test organisms (species): Chlorella vulgaris

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2-hydroxyethyl acrylate (818-61-1)	
LC50 - Fish [1]	4.8 mg/l
EC50 - Crustacea [1]	0.78 mg/l (Exposure time: 48 h - Species: Daphnia magna)
NOEC chronic crustacea	0.48 mg/l

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate (42978-66-5)	
LC50 - Fish [1]	5 mg/l
EC50 - Crustacea [1]	50 mg/l
EC50 72h - Algae [1]	> 50 mg/l (Species: Desmodesmus subspicatus)

FD and C Yellow No. 6 (2783-94-0)	
LC50 - Fish [1]	> 100 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	113.2 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

Titanium dioxide(20-60um) (13463-67-7)	
LC50 - Fish [1]	155 mg/l Test organisms (species): other:Japanese Medaka
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC (chronic)	≥ 2.92 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

12.2. Persistence and degradability

DENATONIUM BENZOATE (3734-33-6)	
Persistence and degradability	Not rapidly degradable
Biodegradation	18.17 % 28d

2-hydroxyethyl acrylate (818-61-1)	
Persistence and degradability	Rapidly degradable
Biodegradation	79 % 28d

12.3. Bioaccumulative potential

Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide (75980-60-8)	
Partition coefficient n-octanol/water (Log Pow)	3.1 (at 23 °C (at pH 6.4)

DENATONIUM BENZOATE (3734-33-6)	
Partition coefficient n-octanol/water (Log Pow)	1.78 Source: National Library of Medicine

2-hydroxyethyl acrylate (818-61-1)	
BCF - Fish [1]	(no bioaccumulation expected)
Partition coefficient n-octanol/water (Log Pow)	-0.17 (at 25 °C)

exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate; isobornyl acrylate (5888-33-5)	
Partition coefficient n-octanol/water (Log Pow)	4.52

1-Propanone, 2-hydroxy-2-methyl-1-phenyl- (7473-98-5)	
Partition coefficient n-octanol/water (Log Pow)	1.62 (at 25 °C (at pH 5.75)

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(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate (42978-66-5)

BCF - Fish [1] (no significant bioaccumulation expected)

Partition coefficient n-octanol/water (Log Pow) 2 (at 25 °C)

FD and C Yellow No. 6 (2783-94-0)

Partition coefficient n-octanol/water (Log Pow) 0.046 (at 25 °C)

FD and C Red No. 40 (25956-17-6)

Partition coefficient n-octanol/water (Log Pow) -1.283 (at 27 °C (at pH 8.53))

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations : Dispose of in a safe manner in accordance with local/national regulations.
Ecological waste information : Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not regulated for transport				
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

14.6. Special precautions for user

Overland transport

Not regulated

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Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains substance(s) listed on the REACH Candidate List in concentrations $\geq 0.1\%$ or SCL: Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide (EC 278-355-8, CAS 75980-60-8)

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

National regulations

France

Occupational diseases	
Code	Description
RG 65	Eczematiform lesions of allergic mechanism

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Germany

Employment restrictions	: Observe restrictions according Act on the Protection of Working Mothers (MuSchG). Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).
Water hazard class (WGK)	: WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1).
Hazardous Incident Ordinance (12. BImSchV)	: Is not subject to the Hazardous Incident Ordinance (12. BImSchV)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Effective concentration for 50 percent of test population (median effective concentration)
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Lethal concentration for 50 percent of test population (median lethal concentration)
LD50	Lethal dose for 50 percent of test population (median lethal dose)
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulation concerning the International Carriage of Dangerous Goods by Railways
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit

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Abbreviations and acronyms:

VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disruptor

Full text of H- and EUH-statements:

Acute Tox. 2 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Carc. Not classified	Carcinogenicity Not classified
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H302	Harmful if swallowed.
H311	Toxic 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.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361f	Suspected of damaging fertility.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1A	Skin sensitisation, category 1A
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

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Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1A	H317	Calculation method
STOT SE 3	H335	Calculation method
Aquatic Chronic 3	H412	Calculation method

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.