SAFETY DATA SHEET

Version #: 08

Issue date: 10-28-2019 Revision date: 08-03-2023 Supersedes date: 07-16-2023

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

1.1. Product identifier

Trade name or designation

of the mixture

PLEXUS® MA8110/8120 Adhesive

Registration number

Synonyms None. SKU# 0807

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

Identified usesNot available.Uses advised againstNone known.

1.3. Details of the supplier of the safety data sheet

Company Name ITW Performance Polymers

Address Bay 150

Shannon Industrial Estate

Co. Clare Ireland V14 DF82

Contact Person Customer Service
Telephone Number 353(61)771500

353(61)471285

Email customerservice.shannon@itwpp.com

Emergency Phone Number 44(0) 1235 239 670 (24 hours)

1.4. Emergency telephone number

General in EU 112 (Available 24 hours a day. SDS/Product information may not be available for

the Emergency Service.)

Austria National Poisons

Information Center

+431 406 4343 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Belgium National Poisons

Control Center

070 245 245 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Bulgaria National

Toxicological Information

Center

+359 2 9154 233 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Croatia Poisons Information Center

+385 1 2348 342 (Hours of operation not provided. SDS/Product information may

not be available for the Emergency Service.)

Cyprus Poison Center

1401 (Available 24 hours a day. SDS/Product information may not be available

for the Emergency Service.)

Czech Republic National Poisons Information

Center

+420 224 919 293, or +420 224 915 402 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)

Denmark National Poisons

Control Center

+45 82 12 12 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Estonia National Poisons Information Center

16662 or abroad: (+372) 626 9390 (Monday 9:00AM to Saturday 9:00AM (closed on Sundays and on national holidays). SDS/Product information may not be

available for the Emergency Service.)

Finland National Poison Information Center

(09) 471 977 (direct) or (09) 4711 (exchange) (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

France National Poisons Control Center ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

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1.4. Emergency telephone number

Greece Poison Information Centre

(0030) 2107793777 (Available 24 hours a day. SDS/Product information may not

be available for the Emergency Service.)

Hungary National Emergency Phone Number +36-80-201-199 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Iceland Poison Center

(+354) 543 2222 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Latvia Emergency medical

aid

+371 67042473 (Available 24 hours a day. SDS/Product information may not be

Latvia Poison and Drug Information Center

Lithuania Neatidėliotina

available for the Emergency Service.)

informacija apsinuodijus

+370 5 236 20 52 or +37068753378 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)

Malta Accident and **Emergency Department**

2545 4030 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)

Netherlands National Poisons Information Center (NVIC)

NVIC: +31 (0)88 755 8000 (Only for the purpose of informing medical personnel in cases of acute intoxications)

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Norway Norwegian Poison Information Center

22 59 13 00 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Portugal Poison Center

800 250 250 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Romania Biroul RSI si Informare Toxicologica 021.318.36.06 (Available 8:00AM-3:00PM. SDS/Product information may not be

available for the Emergency Service.)

Slovakia National **Toxicological Information** Center

+421 2 5477 4166 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Spain Toxicology

+ 34 91 562 04 20 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Sweden National Poison Information Center

112 - and ask for Poison Information (Available 24 hours a day. SDS/Product

information may not be available for the Emergency Service.)

Switzerland Tox Info

Information Service

Suisse

145 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Physical hazards

Flammable liquids Category 2 H225 - Highly flammable liquid and

vapor.

Health hazards

H332 - Harmful if inhaled. Acute toxicity, inhalation Category 4 Skin corrosion/irritation H315 - Causes skin irritation. Category 2 H319 - Causes serious eye Serious eye damage/eye irritation Category 2

irritation.

Skin sensitization Category 1 H317 - May cause an allergic skin

reaction.

Environmental hazards

long-term aquatic hazard

H412 - Harmful to aquatic life with Hazardous to the aquatic environment, Category 3

long lasting effects.

2.2. Label elements

Material name: PLEXUS® MA8110/8120 Adhesive 0807 Version #: 08 Revision date: 08-03-2023 Issue date: 10-28-2019

Label according to Regulation (EC) No. 1272/2008 as amended

UFI:

Austria: EWA0-40FX-F00M-U43V Belgium: EWA0-40FX-F00M-U43V Bulgaria: EWA0-40FX-F00M-U43V Croatia: EWA0-40FX-F00M-U43V Cyprus: EWA0-40FX-F00M-U43V

Czech Republic: EWAO-40FX-F00M-U43V Denmark: EWAO-40FX-F00M-U43V Estonia: EWAO-40FX-F00M-U43V EU: EWAO-40FX-F00M-U43V Finland: EWAO-40FX-F00M-U43V France: EWAO-40FX-F00M-U43V Germany: EWAO-40FX-F00M-U43V Greece: EWAO-40FX-F00M-U43V Hungary: EWAO-40FX-F00M-U43V Iceland: EWAO-40FX-F00M-U43V Ireland: EWAO-40FX-F00M-U43V Italy: EWAO-40FX-F00M-U43V Latvia: EWAO-40FX-F00M-U43V

Latvia: EWA0-40FX-F00M-U43V Lithuania: EWA0-40FX-F00M-U43V Luxembourg: EWA0-40FX-F00M-U43V Malta: EWA0-40FX-F00M-U43V Netherlands: EWA0-40FX-F00M-U43V Norway: EWA0-40FX-F00M-U43V Poland: EWA0-40FX-F00M-U43V Romania: EWA0-40FX-F00M-U43V

Slovakia: EWA0-40FX-F00M-U43V Slovenia: EWA0-40FX-F00M-U43V Spain: EWA0-40FX-F00M-U43V Sweden: EWA0-40FX-F00M-U43V

Contains: dodecyl methacrylate, maleic acid, methacrylic acid; 2-methylpropenoic acid, methyl

methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate, Paraffin Wax, Phenol,

2,6-bis(1,1-dimethylethyl)-4-methyl-, phosphoric acid ... %, orthophosphoric acid ... %,

Styrene/butadiene Copolymer

Hazard pictograms



Signal word Danger

Hazard statements

H225 Highly flammable liquid and vapor.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P235 Keep cool.

P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P261 Avoid breathing mist/vapors.
P264 Wash 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.

Response

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower.

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.

Call a POISON CENTER/doctor if you feel unwell. P312

If skin irritation or rash occurs: Get medical advice/attention. P333 + P313 P337 + P313 If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. P362 + P364 In case of fire: Use appropriate media to extinguish. P370 + P378

Storage

Store in a well-ventilated place. Keep cool. P403 + P235

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations. P501

Supplemental label information

None.

2.3. Other hazards This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII. The mixture does not contain any substances included in the list established in accordance with REACH Article 59(1) for having endocrine disrupting properties at a

concentration equal to or greater than 0.1% by weight.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

neral information					
Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate	40 - 60	80-62-6 201-297-1	01-2119452498-28-0000	607-035-00-6	#
Classification:	Flam. Liq. 3;H335	2;H225, Skin Irrit. 2;H	H315, Skin Sens. 1;H317, S	TOT SE	
Specific Concentration Limits:	STOT SE	3;H335: C ≥ 10 %			
Styrene/butadiene Copolymer	10 - 20	9003-55-8	-	-	
Classification:	: -				
dodecyl methacrylate	2,5 - 10	142-90-5 205-570-6	-	607-247-00-9	
Classification:	Skin Irrit. 2	2;H315, STOT SE 3;H	1335		
Specific Concentration Limits:	STOT SE	3;H335: C ≥ 10 %			
methacrylic acid; 2-methylpropenoic acid	2,5 - 10	79-41-4 201-204-4	01-2119463884-26-0000	607-088-00-5	
Classification:	Acute Tox	. 4;H302;(ATE: 500 n	ng/kg bw), Acute Tox. 4;H31	2;(ATE: 1100	

mg/kg bw), Acute Tox. 3;H331;(ATE: 7,10000000000000 mg/l), Skin

Corr. 1A;H314, Eye Dam. 1;H318, STOT SE 3;H335

Specific Concentration Limits: STOT SE 3;H335: C ≥ 1 %

maleic acid 1 - 2,5110-16-7 607-095-00-3 203-742-5

> Classification: Acute Tox. 4;H302;(ATE: 500 mg/kg bw), Acute Tox. 4;H312;(ATE: 1560 mg/kg bw), Skin Irrit. 2;H315, Eye Irrit. 2;H319, Skin Sens. 1;H317, STOT

SE 3;H335, Aquatic Chronic 2;H411

Specific Concentration Limits: Skin Sens. 1;H317: C ≥ 0.1 %

monoalkyl or monoaryl or monoalkyaryl esters of methacrylic acid with the exception of those specified elsewhere in this Annex

1 - 2,52495-27-4 607-134-00-4 219-672-3

Classification: Skin Irrit. 2;H315, Eye Irrit. 2;H319, STOT SE 3;H335

Specific Concentration Limits: STOT SE 3;H335: C ≥ 10 %

Paraffin Wax 1 - 2,58002-74-2 232-315-6

Classification: -

Phenol. 1 - 2,5128-37-0 2,6-bis(1,1-dimethylethyl)-4-methyl-204-881-4

Classification: Acute Tox. 4;H302;(ATE: 890 mg/kg bw), Aquatic Acute 1;H400, Aquatic

Chronic 2;H411

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Chemical name % CAS-No. / EC No. REACH Registration No. **Notes** Index No. 7664-38-2 015-011-00-6 # phosphoric acid ... %, < 1 231-633-2 orthophosphoric acid ... % Classification: Acute Tox. 4;H302;(ATE: 1530 mg/kg bw), Acute Tox. 2;H330;(ATE: 0,8445 mg/l), Skin Corr. 1B;H314, Eye Dam. 1;H318 Specific Concentration Limits: Skin Corr. 1B;H314: C ≥ 25 %, Skin Irrit. 2;H315: 10 % ≤ C < 25 %, Eye Dam. 1;H314: C ≥ 25 %, Eye Irrit. 2;H319: 10 % ≤ C < 25 % 1,4-dihydroxybenzene; hydroquinone; < 0,1 123-31-9 604-005-00-4 quinol 204-617-8 Classification: Acute Tox. 4;H302;(ATE: 500 mg/kg bw), Acute Tox. 3;H311;(ATE: 900 mg/kg bw), Eye Dam. 1;H318, Skin Sens. 1;H317, Muta. 2;H341, Carc. 2;H351, Aquatic Acute 1;H400(M=10), Aquatic Chronic 1;H410(M=10)

Other components below reportable

levels

List of abbreviations and symbols that may be used above

ATE: Acute toxicity estimate.

M: M-factor

vPvB: very persistent and very bioaccumulative substance.

PBT: persistent, bioaccumulative and toxic substance.

#: This substance has been assigned Union workplace exposure limit(s).

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition comments The full text for all H-statements is displayed in section 16.

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SECTION 4: First aid measures

General information Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the

material(s) involved, and take precautions to protect themselves. Wash contaminated clothing

before reuse.

4.1. Description of first aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or

artificial respiration if needed. Call a poison center or doctor/physician if you feel unwell.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. In case of

eczema or other skin disorders: Seek medical attention and take along these instructions. Wash

contaminated clothing before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Rinse mouth. Get medical attention if symptoms occur. Ingestion

4.2. Most important symptoms and effects, both acute and

delayed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

4.3. Indication of any immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards Highly flammable liquid and vapor.

5.1. Extinguishing media

Suitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting procedures

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do

so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials. Specific methods

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Avoid breathing mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material.

For emergency responders

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Ventilate closed spaces before entering them. Avoid breathing mist/vapors. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid breathing mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

ANNEX 1, PART 1 Categories of dangerous substances

Hazard categories in accordance with Regulation (EC) No 1272/2008

- P5a, b or c FLAMMABLE LIQUIDS (Lower-tier requirements = 50 tons; Upper-tier requirements = 200 tons)

7.3. Specific end use(s)

Observe industrial sector guidance on best practices.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Austria. MAK List, OEL Ordinance Components	Type	Value	Form
1,4-dihydroxybenzene; hydroquinone; quinol (CAS 123-31-9)	Ceiling	4 mg/m3	Inhalable fraction.
	MAK	2 mg/m3	Inhalable fraction.
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	MAK	70 mg/m3	
		20 ppm	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	Ceiling	420 mg/m3	
		100 ppm	

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Components	Туре	Value Form	
	MAK	210 mg/m3	
		50 ppm	
Phenol, 2,6-bis(1,1-dimethylethyl)-4- methyl- (CAS 128-37-0)	MAK	10 mg/m3	
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	MAK	1 mg/m3	
	STEL	2 mg/m3	

Belgium. OEL. Exposure Limit Values to Chemical Substances at Work, Code of Well-being at work, Book VI, Title 1 - Chemical agents, as amended

Components	Туре	Value	Form
1,4-dihydroxybenzene; hydroquinone; quinol (CAS 123-31-9)	TWA	1 mg/m3	
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	TWA	71 mg/m3	
		20 ppm	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	416 mg/m3	
		100 ppm	
	TWA	208 mg/m3	
		50 ppm	
Paraffin Wax (CAS 8002-74-2)	TWA	2 mg/m3	Fume.
Phenol, 2,6-bis(1,1-dimethylethyl)-4- methyl- (CAS 128-37-0)	TWA	2 mg/m3	Vapor and aerosol.
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	

Bulgaria. OELs. Ordinance No 13 on protection of workers against risks of exposure to chemical agents at work, as amended

Components	Туре	Value	
1,4-dihydroxybenzene; hydroquinone; quinol (CAS 123-31-9)	TWA	2 mg/m3	
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	TWA	70 mg/m3	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	100 ppm	
	TWA	50 ppm	
Phenol, 2,6-bis(1,1-dimethylethyl)-4- methyl- (CAS 128-37-0)	STEL	50 mg/m3	
	TWA	10 mg/m3	
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	

Bulgaria. OELs. Ordinance No 13 on protection of workers against risks of exposure to chemical agents at work, as amended

Components	Туре	Value
POLY(METHYL METHACRYLATE) (CAS 9011-14-7)	TWA	20 mg/m3

Croatia. OELs (GVI). Regulation on Protection of Workers against Exposure to Dangerous Chemicals at Work, OELs and Biological Limit Values, Annex I (NN 91/2018), as amended

Components	Type	Value	Form
1,4-dihydroxybenzene; hydroquinone; quinol (CAS 123-31-9)	MAC	0,5 mg/m3	
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	MAC	72 mg/m3	
		20 ppm	
	STEL	143 mg/m3	
		40 ppm	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	MAC	50 ppm	
	STEL	100 ppm	
Paraffin Wax (CAS 8002-74-2)	MAC	2 mg/m3	Fume.
	STEL	6 mg/m3	Fume.
Phenol, 2,6-bis(1,1-dimethylethyl)-4- methyl- (CAS 128-37-0)	MAC	10 mg/m3	
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	MAC	1 mg/m3	
	STEL	2 mg/m3	

Cyprus. OELs. Occupational Exposure Limit Values of Chemicals at Work (Safety and Health at Work (Chem. Agents) Reg., Ann. 1, R.A.A. 268/2001, as amended)

Components	Туре	Value	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	100 ppm	
	TWA	50 ppm	
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 ma/m3	

Czech Republic. Occupational exposure limit values of chemicals at work (Decree on protection of health at work, 361/2007, Annex 2, Part A & Annex 3, Part A, as amended)

Components	Туре	Value	
1,4-dihydroxybenzene; hydroquinone; quinol (CAS 123-31-9)	Ceiling	4 mg/m3	
	TWA	2 mg/m3	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	Ceiling	150 mg/m3	
	TWA	50 mg/m3	
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	Ceiling	2 mg/m3	
	TWA	1 mg/m3	

Components	Туре	Value	Form
1,4-dihydroxybenzene; hydroquinone; quinol (CAS 123-31-9)	Ceiling	2 mg/m3	
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	TLV	70 mg/m3	
		20 ppm	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	TLV	102 mg/m3	
		25 ppm	
Paraffin Wax (CAS 8002-74-2)	TLV	2 mg/m3	Fume.
Phenol, 2,6-bis(1,1-dimethylethyl)-4- methyl- (CAS 128-37-0)	TLV	10 mg/m3	
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	TLV	1 mg/m3	

Components	Туре	Value	Form
1,4-dihydroxybenzene; hydroquinone; quinol (CAS 123-31-9)	STEL	1,5 mg/m3	
	TWA	0,5 mg/m3	
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	STEL	100 mg/m3	
		30 ppm	
	TWA	70 mg/m3	
		20 ppm	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	100 ppm	
,	TWA	50 ppm	
Paraffin Wax (CAS 8002-74-2)	TWA	2 mg/m3	Vapor.
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	STEL	2 mg/m3	Vapor.
	TWA	1 mg/m3	Vapor.
Finland. HTP-arvot, App 3., Binding	g Limit Values, Social Affairs	and Ministry of Health	
Components	Туре	Value	Form
	STEL	2 mg/m3	
hydroquinone; quinol (CAS	SIEL	Ç	
hydroquinone; quinol (CAS	TWA	0,5 mg/m3	
hydroquinone; quinol (CAS 123-31-9) methacrylic acid; 2-methylpropenoic acid		-	
1,4-dihydroxybenzene; hydroquinone; quinol (CAS 123-31-9) methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	TWA	0,5 mg/m3	
hydroquinone; quinol (CAS 123-31-9) methacrylic acid; 2-methylpropenoic acid	TWA	0,5 mg/m3 71 mg/m3	
hydroquinone; quinol (CAS 123-31-9) methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4) methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate	TWA TWA	0,5 mg/m3 71 mg/m3 20 ppm	

Paraffin Wax (CAS	Value 2 mg/m3 0,5 ppm 1 mg/m3 0,2 ppm 49 of Labor Code, Value 410 mg/m3 100 ppm 205 mg/m3 50 ppm	as amended
Phenol, STEL 2,6-bis (1,1-dimethylethyl)-4-methyl- (CAS 128-37-0) TWA phosphoric acid %, STEL orthophosphoric acid % (CAS 7664-38-2) France. OELs. Indicative Occupational Exposure Limits as Prescribed by Occomponents Type phosphoric acid %, VLE orthophosphoric acid % (CAS 7664-38-2) VME France. OELs. Occupational Exposure Limits as Prescribed by Art. R.4412-Components Type methyl methacrylate; methyl VLE 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) VME France. Threshold Limit Values (VLEP) for Occupational Exposure to Chem Type 1,4-dihydroxybenzene; VME hydroquinone; quinol (CAS 123-31-9) Regulatory status: Indicative limit (VL) Regulatory status: Regulatory binding (VRC) Regulatory status: Regulatory binding (VRC) VME	1 mg/m3 20 mg/m3 10 mg/m3 2 mg/m3 1 mg/m3 1 mg/m3 1 mg/m3 1 mg/m3 0,5 ppm 1 mg/m3 0,2 ppm 49 of Labor Code, Value 410 mg/m3 100 ppm 205 mg/m3 50 ppm (cals in France, INF	04, as amended as amended
Phenol, 2,6-bis(1,1-dimethylethyl)-4- methyl- (CAS 128-37-0) TWA phosphoric acid %, STEL orthophosphoric acid % (CAS 7664-38-2) TWA France. OELs. Indicative Occupational Exposure Limits as Prescribed by Orcomponents Type phosphoric acid %, VLE orthophosphoric acid % (CAS 7664-38-2) VME France. OELs. Occupational Exposure Limits as Prescribed by Art. R.4412- Components Type methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) VME France. Threshold Limit Values (VLEP) for Occupational Exposure to Chem Type 1,4-dihydroxybenzene; VME hydroquinone; quinol (CAS 123-31-9) Regulatory status: Indicative limit (VL) methacrylic acid; VME Regulatory status: Indicative limit (VL) Regulatory status: Indicative limit (VL) Regulatory status: Indicative limit (VL) methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylprop-3-enoate; methyl 2-methylprop-3-enoate; methyl 2-methylprop-3-enoate; methyl 2-methylprop-3-enoate; methyl 3-methylprop-3-enoate; methyl 3-methylprop-3-enoat	10 mg/m3 2 mg/m3 1 mg/m3 rder of 30 June 200 Value 2 mg/m3 0,5 ppm 1 mg/m3 0,2 ppm 49 of Labor Code, Value 410 mg/m3 100 ppm 205 mg/m3 50 ppm (cals in France, INF	as amended
2,6-bis(1,1-dimethylethyl)-4- methyl- (CAS 128-37-0) TWA phosphoric acid %, STEL orthophosphoric acid % (CAS 7664-38-2) TWA France. OELs. Indicative Occupational Exposure Limits as Prescribed by Orcomponents Type phosphoric acid %, VLE orthophosphoric acid % (CAS 7664-38-2) VME France. OELs. Occupational Exposure Limits as Prescribed by Art. R.4412-7 Components Type methyl methacrylate; methyl 2-methylprope-enoate; whylrope-enoate (CAS 80-62-6) VME France. Threshold Limit Values (VLEP) for Occupational Exposure to Chem Components Type 1,4-dihydroxybenzene; yME hydroquinone; quinol (CAS 123-31-9) Regulatory status: Indicative limit (VL) methacrylic acid; VME Regulatory status: Indicative limit (VL) methyl methacrylate; methyl 2-methylprope-oce acid (CAS 79-41-4) Regulatory status: Indicative limit (VL) methyl methacrylate; methyl 2-methylprope-enoate; whylropenoite (CAS 80-62-6) Regulatory status: Regulatory binding (VRC) Regulatory status: Regulatory binding (VRC) VME	10 mg/m3 2 mg/m3 1 mg/m3 rder of 30 June 200 Value 2 mg/m3 0,5 ppm 1 mg/m3 0,2 ppm 49 of Labor Code, Value 410 mg/m3 100 ppm 205 mg/m3 50 ppm (cals in France, INF	as amended
phosphoric acid %, orthophosphoric acid %, orthophosphoric acid % (CAS 7664-38-2) TWA France. OELs. Indicative Occupational Exposure Limits as Prescribed by Orthophosphoric acid %, orthophosphoric acid % (CAS 7664-38-2) VME France. OELs. Occupational Exposure Limits as Prescribed by Art. R.4412-7 Components Type methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) VME France. Threshold Limit Values (VLEP) for Occupational Exposure to Chem Type 1.4-dihydroxybenzene; hydroquinone; quinol (CAS 123-31-9) Regulatory status: Indicative limit (VL) methacrylic acid; VME Prescribed by Art. R.4412-7 WME VLE France. Threshold Limit Values (VLEP) for Occupational Exposure to Chem Type 1.4-dihydroxybenzene; WME 1.4-dihydroxybenzene	2 mg/m3 1 mg/m3 rder of 30 June 200 Value 2 mg/m3 0,5 ppm 1 mg/m3 0,2 ppm 49 of Labor Code, Value 410 mg/m3 100 ppm 205 mg/m3 50 ppm cals in France, INF	as amended
orthophosphoric acid % (CAS 7664-38-2) TWA France. OELs. Indicative Occupational Exposure Limits as Prescribed by Orthophosphoric acid %, orthophosphoric acid % (CAS 7664-38-2) VME France. OELs. Occupational Exposure Limits as Prescribed by Art. R.4412-7 Components Type methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) VME France. Threshold Limit Values (VLEP) for Occupational Exposure to Chem Type 1,4-dihydroxybenzene; hydroquinone; quinol (CAS 123-31-9) Regulatory status: Indicative limit (VL) methacrylic acid; VME 2-methylpropenoic acid (CAS 79-41-4) Regulatory status: Indicative limit (VL) methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylprope-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) Regulatory status: Regulatory binding (VRC) Regulatory status: Regulatory binding (VRC) VME	1 mg/m3 rder of 30 June 200 Value 2 mg/m3 0,5 ppm 1 mg/m3 0,2 ppm 49 of Labor Code, Value 410 mg/m3 100 ppm 205 mg/m3 50 ppm (cals in France, INF	as amended
TWA France. OELs. Indicative Occupational Exposure Limits as Prescribed by Art. R.4412-70-70-70-70-70-70-70-70-70-70-70-70-70-	der of 30 June 200 Value 2 mg/m3 0,5 ppm 1 mg/m3 0,2 ppm 49 of Labor Code, Value 410 mg/m3 100 ppm 205 mg/m3 50 ppm (cals in France, INF	as amended
France. OELs. Indicative Occupational Exposure Limits as Prescribed by Occomponents Type phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2) VME France. OELs. Occupational Exposure Limits as Prescribed by Art. R.4412-Type methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) VME France. Threshold Limit Values (VLEP) for Occupational Exposure to Chem Components Type 1.4-dihydroxybenzene; hydroquinone; quinol (CAS 123-31-9) Regulatory status: Indicative limit (VL) methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4) Regulatory status: Indicative limit (VL) methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) Regulatory status: Regulatory binding (VRC) Regulatory status: Regulatory binding (VRC) VME	der of 30 June 200 Value 2 mg/m3 0,5 ppm 1 mg/m3 0,2 ppm 49 of Labor Code, Value 410 mg/m3 100 ppm 205 mg/m3 50 ppm (cals in France, INF	as amended
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2) VME France. OELs. Occupational Exposure Limits as Prescribed by Art. R.4412-7 Components Type methyl methacrylate; methyl 2-methyl 2-methyl propenoate (CAS 80-62-6) VME France. Threshold Limit Values (VLEP) for Occupational Exposure to Chem Type (CAS 80-62-6) VME France. Threshold Limit Values (VLEP) for Occupational Exposure to Chem Type (CAS 80-62-6) VME Regulatory status: Indicative limit (VL) Regulatory status: Regulatory binding (VRC) Regulatory status: Regulatory binding (VRC) VME	Value 2 mg/m3 0,5 ppm 1 mg/m3 0,2 ppm 49 of Labor Code, Value 410 mg/m3 100 ppm 205 mg/m3 50 ppm (cals in France, INI	as amended
orthophosphoric acid % (CAS 7664-38-2) VME France. OELs. Occupational Exposure Limits as Prescribed by Art. R.4412-Components methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) VME France. Threshold Limit Values (VLEP) for Occupational Exposure to Chem Components Type 1,4-dihydroxybenzene; hydroquinone; quinol (CAS 123-31-9) Regulatory status: Indicative limit (VL) methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4) Regulatory status: Indicative limit (VL) Regulatory status: Indicative limit (VL) methyl methacrylate; methyl 2-methylprop-2-enoate; methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) Regulatory status: Regulatory binding (VRC) Regulatory status: Regulatory binding (VRC) VME	0,5 ppm 1 mg/m3 0,2 ppm 49 of Labor Code, Value 410 mg/m3 100 ppm 205 mg/m3 50 ppm icals in France, INF	RS ED 984
France. OELs. Occupational Exposure Limits as Prescribed by Art. R.4412- Components Type methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) VME France. Threshold Limit Values (VLEP) for Occupational Exposure to Chem Components Type 1,4-dihydroxybenzene; hydroquinone; quinol (CAS 123-31-9) Regulatory status: Indicative limit (VL) methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4) Regulatory status: Indicative limit (VL) Regulatory status: Indicative limit (VL) methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) Regulatory status: Regulatory binding (VRC) VME	1 mg/m3 0,2 ppm 49 of Labor Code, Value 410 mg/m3 100 ppm 205 mg/m3 50 ppm (cals in France, INI	RS ED 984
France. OELs. Occupational Exposure Limits as Prescribed by Art. R.4412-Components Type methyl methacrylate; methyl 2-methylprop-2-enoate; methyl z-methylpropenoate (CAS 80-62-6) VME France. Threshold Limit Values (VLEP) for Occupational Exposure to Chem Components Type 1,4-dihydroxybenzene; hydroquinone; quinol (CAS 123-31-9) Regulatory status: Indicative limit (VL) methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4) Regulatory status: Indicative limit (VL) Regulatory status: Indicative limit (VL) methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) Regulatory status: Regulatory binding (VRC) VME Regulatory status: Regulatory binding (VRC) VME	1 mg/m3 0,2 ppm 49 of Labor Code, Value 410 mg/m3 100 ppm 205 mg/m3 50 ppm (cals in France, INI	RS ED 984
France. OELs. Occupational Exposure Limits as Prescribed by Art. R.4412-Components Type methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) VME France. Threshold Limit Values (VLEP) for Occupational Exposure to Chem Components Type 1,4-dihydroxybenzene; hydroquinone; quinol (CAS 123-31-9) Regulatory status: Indicative limit (VL) methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4) Regulatory status: Indicative limit (VL) Regulatory status: Indicative limit (VL) methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) Regulatory status: Regulatory binding (VRC) VME	0,2 ppm 49 of Labor Code, Value 410 mg/m3 100 ppm 205 mg/m3 50 ppm (cals in France, INF	RS ED 984
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) France. Threshold Limit Values (VLEP) for Occupational Exposure to Chem Components Type 1,4-dihydroxybenzene; hydroquinone; quinol (CAS 123-31-9) Regulatory status: Indicative limit (VL) methacrylic acid; VME 2-methylpropenoic acid (CAS 79-41-4) Regulatory status: Indicative limit (VL) Regulatory status: Regulatory limit (VL) Regulatory status: Regulatory binding (VRC) Regulatory status: Regulatory binding (VRC) VME	49 of Labor Code, Value 410 mg/m3 100 ppm 205 mg/m3 50 ppm (cals in France, INI	RS ED 984
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) France. Threshold Limit Values (VLEP) for Occupational Exposure to Chem Components 1,4-dihydroxybenzene; hydroquinone; quinol (CAS 123-31-9) Regulatory status: Indicative limit (VL) methacrylic acid; VME Pegulatory status: Indicative limit (VL) Regulatory status: Regulatory binding (VRC) Regulatory status: Regulatory binding (VRC) VME	Value 410 mg/m3 100 ppm 205 mg/m3 50 ppm (cals in France, INF	RS ED 984
2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) VME France. Threshold Limit Values (VLEP) for Occupational Exposure to Chem Components Type 1,4-dihydroxybenzene; hydroquinone; quinol (CAS 123-31-9) Regulatory status: Indicative limit (VL) methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4) Regulatory status: Indicative limit (VL) Regulatory status: Regulatory binding (VRC) Regulatory status: Regulatory binding (VRC) VME	100 ppm 205 mg/m3 50 ppm cals in France, INI	
France. Threshold Limit Values (VLEP) for Occupational Exposure to Chem Components Type 1,4-dihydroxybenzene; hydroquinone; quinol (CAS 123-31-9) Regulatory status: Indicative limit (VL) methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4) Regulatory status: Indicative limit (VL) Regulatory status: Indicative limit (VL) methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) Regulatory status: Regulatory binding (VRC) VME	205 mg/m3 50 ppm cals in France, INI	
France. Threshold Limit Values (VLEP) for Occupational Exposure to Chem Components Type 1,4-dihydroxybenzene; hydroquinone; quinol (CAS 123-31-9) Regulatory status: Indicative limit (VL) methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4) Regulatory status: Indicative limit (VL) Regulatory status: Indicative limit (VL) methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) Regulatory status: Regulatory binding (VRC) VME	50 ppm cals in France, INI	
Components Type 1,4-dihydroxybenzene; hydroquinone; quinol (CAS 123-31-9) Regulatory status: Indicative limit (VL) methacrylic acid; VME 2-methylpropenoic acid (CAS 79-41-4) Regulatory status: Indicative limit (VL) Regulatory status: Indicative limit (VL) methyl methacrylate; methyl VLE 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) Regulatory status: Regulatory binding (VRC) Regulatory status: Regulatory binding (VRC) VME	cals in France, INI	
Components Type 1,4-dihydroxybenzene; hydroquinone; quinol (CAS 123-31-9) Regulatory status: Indicative limit (VL) methacrylic acid; VME 2-methylpropenoic acid (CAS 79-41-4) Regulatory status: Indicative limit (VL) Regulatory status: Indicative limit (VL) methyl methacrylate; methyl VLE 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) Regulatory status: Regulatory binding (VRC) Regulatory status: Regulatory binding (VRC) VME	cals in France, INI	
Components Type 1,4-dihydroxybenzene; hydroquinone; quinol (CAS 123-31-9) Regulatory status: Indicative limit (VL) methacrylic acid; VME 2-methylpropenoic acid (CAS 79-41-4) Regulatory status: Indicative limit (VL) Regulatory status: Indicative limit (VL) methyl methacrylate; methyl VLE 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) Regulatory status: Regulatory binding (VRC) Regulatory status: Regulatory binding (VRC) VME		
Regulatory status: Indicative limit (VL) methacrylic acid; VME 2-methylpropenoic acid (CAS 79-41-4) Regulatory status: Indicative limit (VL) Regulatory status: Indicative limit (VL) Regulatory status: Indicative limit (VL) Methyl methacrylate; methyl VLE 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) Regulatory status: Regulatory binding (VRC) Regulatory status: Regulatory binding (VRC) VME		
Regulatory status: Indicative limit (VL) methacrylic acid; VME 2-methylpropenoic acid (CAS 79-41-4) Regulatory status: Indicative limit (VL) Regulatory status: Indicative limit (VL) methyl methacrylate; methyl VLE 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) Regulatory status: Regulatory binding (VRC) Regulatory status: Regulatory binding (VRC) VME	2 mg/m3	
2-methylpropenoic acid (CAS 79-41-4) Regulatory status: Indicative limit (VL) Regulatory status: Indicative limit (VL) methyl methacrylate; methyl VLE 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) Regulatory status: Regulatory binding (VRC) Regulatory status: Regulatory binding (VRC) VME		
Regulatory status: Indicative limit (VL) Regulatory status: Indicative limit (VL) methyl methacrylate; methyl VLE 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) Regulatory status: Regulatory binding (VRC) Regulatory status: Regulatory binding (VRC) VME	70 mg/m3	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) Regulatory status: Regulatory binding (VRC) Regulatory status: Regulatory binding (VRC) VME		
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) Regulatory status: Regulatory binding (VRC) Regulatory status: Regulatory binding (VRC) VME	20 ppm	
2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) Regulatory status: Regulatory binding (VRC) Regulatory status: Regulatory binding (VRC) VME		
Regulatory status: Regulatory binding (VRC) VME	410 mg/m3	
VME	100 ppm	
VME		
	205 mg/m3	
	-	
	50 ppm	
Regulatory status: Regulatory binding (VRC)		
Paraffin Wax (CAS VME 8002-74-2)	2 mg/m3	Fume.
Regulatory status: Indicative limit (VL)		
Phenol, VME 2,6-bis(1,1-dimethylethyl)-4-		
methyl- (CAS 128-37-0) Regulatory status: Indicative limit (VL)	10 mg/m3	

Components	Туре	Value F	orm
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	VLE	2 mg/m3	
Regulatory status:	Regulatory indicative (VRI)		
		0,5 ppm	
Regulatory status:	Regulatory indicative (VRI)		
	VME	1 mg/m3	
Regulatory status:	Regulatory indicative (VRI)		
		0,2 ppm	
Regulatory status:	Regulatory indicative (VRI)		

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG), as updated

Components	Туре	Value	Form
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	TWA	180 mg/m3	
		50 ppm	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	TWA	210 mg/m3	
		50 ppm	
Phenol, 2,6-bis(1,1-dimethylethyl)-4- methyl- (CAS 128-37-0)	TWA	10 mg/m3	Vapor and aerosol, inhalable fraction.
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	TWA	2 mg/m3	Inhalable fraction.
Germany. TRGS 900, Limit Values	in the Ambient Air at the Wo	rkplace	
Components	Туре	Value	Form
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	AGW	180 mg/m3	
		50 ppm	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	AGW	210 mg/m3	
,		50 ppm	
Phenol, 2,6-bis(1,1-dimethylethyl)-4- methyl- (CAS 128-37-0)	AGW	10 mg/m3	Inhalable fraction.
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	AGW	2 mg/m3	Inhalable fraction.
Greece. OELs, Presidential Decree	No. 307/1986, as amended		
Components	Туре	Value	Form
1,4-dihydroxybenzene; hydroquinone; quinol (CAS 123-31-9)	STEL	4 mg/m3	
	TWA	2 mg/m3	
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	STEL	140 mg/m3	
•		40 ppm	
	TWA	70 mg/m3	

20 ppm

Material name: PLEXUS® MA8110/8120 Adhesive

Components	Туре	Value	Form
nethyl methacrylate; methyl 2-methylprop-2-enoate; nethyl 2-methylpropenoate CAS 80-62-6)	STEL	100 ppm	
0,10 00 02 0)	TWA	50 ppm	
Paraffin Wax (CAS 8002-74-2)	STEL	6 mg/m3	Fume.
,	TWA	2 mg/m3	Fume.
Phenol, 2,6-bis(1,1-dimethylethyl)-4- nethyl- (CAS 128-37-0)	TWA	10 mg/m3	
ohosphoric acid %, orthophosphoric acid % CAS 7664-38-2)	STEL	3 mg/m3	
S. 18 188 188 2)	TWA	1 mg/m3	
Hungary. OELs. Decree on protecti Components	on of workers exposed to ch Type	nemical agents (5/2020. (II.6)), Value	Annex 1&2, as amended
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate CAS 80-62-6)	STEL	415 mg/m3	
O/10 00 02-0)	TWA	208 mg/m3	
phosphoric acid %, orthophosphoric acid % CAS 7664-38-2)	STEL	2 mg/m3	
0/10/1004/00/2/	TWA	1 mg/m3	
celand. OELs. Regulation 390/2009 Components	on Pollution Limits and Mea Type	asures to Reduce Pollution at Value	the Workplace, as amende Form
1,4-dihydroxybenzene; nydroquinone; quinol (CAS 123-31-9)	STEL	2 mg/m3	
nydroquinone; quinol (CAS	STEL	2 mg/m3 0,5 mg/m3	
nydroquinone; quinol (CAS		_	
nydroquinone; quinol (CAS 123-31-9) methacrylic acid; 2-methylpropenoic acid	TWA	0,5 mg/m3	
mydroquinone; quinol (CAS 123-31-9) methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4) methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate	TWA	0,5 mg/m3 70 mg/m3	
mydroquinone; quinol (CAS 123-31-9) methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4) methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate	TWA TWA	0,5 mg/m3 70 mg/m3 20 ppm	
mydroquinone; quinol (CAS 123-31-9) methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4) methyl methacrylate; methyl 2-methylprop-2-enoate;	TWA TWA STEL	0,5 mg/m3 70 mg/m3 20 ppm 100 ppm	Fume.
methacrylic acid; 2-methylpropenoic acid CAS 79-41-4) methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate CAS 80-62-6) Paraffin Wax (CAS	TWA TWA STEL	0,5 mg/m3 70 mg/m3 20 ppm 100 ppm	Fume.
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4) methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) Paraffin Wax (CAS 3002-74-2) Phenol, 2,6-bis(1,1-dimethylethyl)-4-	TWA TWA STEL TWA TWA	0,5 mg/m3 70 mg/m3 20 ppm 100 ppm 50 ppm 2 mg/m3	Fume.
methacrylic acid; 2-methylpropenoic acid CAS 79-41-4) methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) Paraffin Wax (CAS 3002-74-2) Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (CAS 128-37-0) phosphoric acid %, orthophosphoric acid %	TWA TWA STEL TWA TWA TWA	0,5 mg/m3 70 mg/m3 20 ppm 100 ppm 50 ppm 2 mg/m3 10 mg/m3	Fume.
nydroquinone; quinol (CAS 123-31-9) methacrylic acid; 2-methylpropenoic acid CAS 79-41-4) methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) Paraffin Wax (CAS 8002-74-2) Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (CAS 128-37-0) phosphoric acid %, orthophosphoric acid % CAS 7664-38-2) reland. OELVs, Schedules 1 & 2, C	TWA TWA STEL TWA TWA TWA STEL TWA	0,5 mg/m3 70 mg/m3 20 ppm 100 ppm 50 ppm 2 mg/m3 10 mg/m3 2 mg/m3	
nydroquinone; quinol (CAS 123-31-9) methacrylic acid; 2-methylpropenoic acid CAS 79-41-4) methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) Paraffin Wax (CAS 8002-74-2) Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (CAS 128-37-0) phosphoric acid %, orthophosphoric acid %, orthophosphoric acid % (CAS 7664-38-2) reland. OELVs, Schedules 1 & 2, C Components 1,4-dihydroxybenzene; nydroquinone; quinol (CAS	TWA TWA STEL TWA TWA TWA STEL TWA STEL TWA Code of Practice for Chemical	0,5 mg/m3 70 mg/m3 20 ppm 100 ppm 50 ppm 2 mg/m3 10 mg/m3 2 mg/m3	gulations
nydroquinone; quinol (CAS 123-31-9) methacrylic acid; 2-methylpropenoic acid CAS 79-41-4) methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) Paraffin Wax (CAS 8002-74-2) Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (CAS 128-37-0) phosphoric acid %, orthophosphoric acid %, orthophosphoric acid % (CAS 7664-38-2) reland. OELVs, Schedules 1 & 2, C Components 1,4-dihydroxybenzene;	TWA TWA STEL TWA TWA TWA STEL TWA STEL TWA TOTA TOTA	0,5 mg/m3 70 mg/m3 20 ppm 100 ppm 50 ppm 2 mg/m3 10 mg/m3 2 mg/m3 1 mg/m3	gulations

reland. OELVs, Schedules 1 & 2, C Components	Type	Value	Form
	TWA	70 mg/m3	
		20 ppm	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	100 ppm	
o. 12 00 01 0,	TWA	50 ppm	
Paraffin Wax (CAS 8002-74-2)	STEL	6 mg/m3	Fume.
	TWA	2 mg/m3	Fume.
Phenol, 2,6-bis(1,1-dimethylethyl)-4- nethyl- (CAS 128-37-0)	TWA	2 mg/m3	
ohosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	
taly. OELs (Legislative Decree n.8	1, 9 April 2008), as amended		
Components	Туре	Value	Form
1,4-dihydroxybenzene; nydroquinone; quinol (CAS 123-31-9)	TWA	1 mg/m3	
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	TWA	20 ppm	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	100 ppm	
	TWA	50 ppm	
Paraffin Wax (CAS 3002-74-2)	TWA	2 mg/m3	Fume.
Phenol, 2,6-bis(1,1-dimethylethyl)-4- nethyl- (CAS 128-37-0)	TWA	2 mg/m3	Inhalable fraction and vapor.
ohosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	STEL	2 mg/m3	
,	TWA	1 mg/m3	
_atvia. OELs. Occupational Exposi I), as amended	ure Limits of Chemical Subs	tances at Workplace (Reg. No	. 325/ 2007, L.V. 80, Anne
Components	Туре	Value	
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	TWA	10 mg/m3	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	TWA	10 mg/m3	
ohosphoric acid %, orthophosphoric acid % CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	
Lithuania. OELs. Occupational Exp V-824/A1-389), as amended			orm HN 23:2011; Order No
Components	Туре	Value	
1,4-dihydroxybenzene; nydroquinone; quinol (CAS 123-31-9)	STEL	1,5 mg/m3	

Lithuania. OELs. Occupational Exposure Limit Values for Chemical Substances (Hygiene Norm HN 23:2011; Order No. V-824/A1-389), as amended

Components	Туре	Value	
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	STEL	100 mg/m3	
		30 ppm	
	TWA	70 mg/m3	
		20 ppm	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	416 mg/m3	
		100 ppm	
	TWA	208 mg/m3	
		50 ppm	
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	

Luxembourg. OELs. Binding Occupational Exposure Limit Values (Annex I), G.D.R. of 14 November 2016, OJ Memorial A, n $^{\circ}$ 235/2016, as amended

Components	Туре	Value	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	100 ppm	
	TWA	50 ppm	
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	

Malta. OELs. Protection of Health and Safety of Workers from Risks related to Chemical Agents at Work (L.N 227/2003 Schedules I and V), as amended

Components	Туре	Value	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	100 ppm	
	TWA	50 ppm	
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	

Netherlands. OELs per Annex XIII of Working Conditions Regulation (Staatscourant no. 252, 29 December 2006), as amended

Components	Туре	Value	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	410 mg/m3	
	TWA	205 mg/m3	
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	

Norway. Regulation No. 1358 on Measures and Limit Values for Physical and Chemical Factors in Work Environment and Infection Groups for Biological Factors, as amended

Components	Туре	Value	Form
1,4-dihydroxybenzene; hydroquinone; quinol (CAS 123-31-9)	TLV	0,5 mg/m3	
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	TLV	70 mg/m3	
		20 ppm	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	400 mg/m3	
		100 ppm	
	TLV	100 mg/m3	
		25 ppm	
Paraffin Wax (CAS 8002-74-2)	TLV	2 mg/m3	Fume.
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	TLV	1 mg/m3	

Poland. Maximum permissible concentrations and intensities of harmful factors in the work environment (Dz.U.Poz. 1286/2018, Annex 1)

Components	Туре	Value	Form
1,4-dihydroxybenzene; hydroquinone; quinol (CAS 123-31-9)	STEL	2 mg/m3	
	TWA	1 mg/m3	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	300 mg/m3	
	TWA	100 mg/m3	
Paraffin Wax (CAS 8002-74-2)	TWA	2 mg/m3	Inhalable fraction.
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	
Portugal. Decree-Law No. 24/2012	, Occupational Exposure Lin	nit Values, Annex II, as amended	I
Components	Туре	Value	
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	
Portugal. VLEs. Norm on occupati	onal exposure to chemical a		
Components	Туре	Value	Form
1,4-dihydroxybenzene; hydroquinone; quinol (CAS 123-31-9)	TWA	1 mg/m3	
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	TWA	20 ppm	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	100 ppm	

Paraffin Wax (CAS

8002-74-2)

TWA

TWA

50 ppm

2 mg/m3

Fume.

Components	Туре	Value	Form
Phenol, 2,6-bis(1,1-dimethylethyl)-4- methyl- (CAS 128-37-0)	TWA	2 mg/m3	Inhalable fraction and vapor.
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	STEL	3 mg/m3	
	TWA	1 mg/m3	

Romania. OELs. Limit Values of Chemical Agents at Workplace (Regulation 1.218/2006, M.O 845, Annex 1, 3&4, as amended)

Components	Туре	Value	Form
1,4-dihydroxybenzene; hydroquinone; quinol (CAS 123-31-9)	STEL	2 mg/m3	
	TWA	1 mg/m3	
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	STEL	45 mg/m3	
		13 ppm	
	TWA	30 mg/m3	
		8,5 ppm	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	410 mg/m3	
		100 ppm	
	TWA	205 mg/m3	
		50 ppm	
Paraffin Wax (CAS 8002-74-2)	STEL	6 mg/m3	Fume.
	TWA	2 mg/m3	Fume.
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	

Slovakia. OELs. Maximum permissible exposure limits for chemical factors in workplace air (Regulation No 355/2006, Annex 1, Table 1, as amended)

Components	Туре	Value	Form	
1,4-dihydroxybenzene; hydroquinone; quinol (CAS 123-31-9)	TWA	2 mg/m3		
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	100 ppm		
	TWA	50 ppm		
Paraffin Wax (CAS 8002-74-2)	STEL	6 mg/m3	Fume.	
	TWA	2 mg/m3	Fume.	
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	STEL	2 mg/m3		
	TWA	1 mg/m3		

Slovenia. OELs. Occupational Exposure Limits of Chemicals at Workplace (Reg. on Protection of Workers from Risks due to Exp. to Chemicals at Work, Annex I), as amended

Components	Туре	Value Form	
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	TWA	180 mg/m3	

Slovenia. OELs. Occupational Exposure Limits of Chemicals at Workplace (Reg. on Protection of Workers from Risks due to Exp. to Chemicals at Work, Annex I), as amended

Components	Туре	Value	Form
		50 ppm	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	TWA	210 mg/m3	
		50 ppm	
Phenol, 2,6-bis(1,1-dimethylethyl)-4- methyl- (CAS 128-37-0)	TWA	10 mg/m3	Inhalable fraction.
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	TWA	1 mg/m3	

Spain. OELs. INSST, Límites de Exposición Profesional Para Agentes Químicos, Table 1-Valores Límites Ambientales (VLAs)

Components	Туре	Value	Form
1,4-dihydroxybenzene; hydroquinone; quinol (CAS 123-31-9)	TWA	2 mg/m3	
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	TWA	72 mg/m3	
		20 ppm	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	100 ppm	
	TWA	50 ppm	
Paraffin Wax (CAS 8002-74-2)	TWA	2 mg/m3	Fume.
Phenol, 2,6-bis(1,1-dimethylethyl)-4- methyl- (CAS 128-37-0)	TWA	10 mg/m3	
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	

Sweden. OELs (Annex 1). Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2018:1), as amended

Components	Туре	Value	
1,4-dihydroxybenzene; hydroquinone; quinol (CAS 123-31-9)	STEL	1,5 mg/m3	
	TWA	0,5 mg/m3	
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	STEL	100 mg/m3	
		30 ppm	
	TWA	70 mg/m3	
		20 ppm	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	Ceiling	400 mg/m3	
		100 ppm	
	TWA	200 mg/m3	
		50 ppm	
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	Ceiling	2 mg/m3	

Value

Type

TWA 1 mg/m3 Switzerland. SUVA Grenzwerte am Arbeitsplatz: Aktuelle MAK-Werte **Form** Components Value **Type** 1,4-dihydroxybenzene; STEL 2 mg/m3 Vapor and aerosol, hydroquinone; quinol (CAS inhalable. 123-31-9) **TWA** Vapor and aerosol, 2 mg/m3 inhalable. methacrylic acid; STEL 360 mg/m3 2-methylpropenoic acid (CAS 79-41-4) 100 ppm TWA 180 mg/m3 50 ppm methyl methacrylate; methyl STEL 420 mg/m3 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) 100 ppm **TWA** 210 mg/m3 50 ppm Paraffin Wax (CAS Respirable fume. **TWA** 2 mg/m3 8002-74-2) Phenol, STEL 40 mg/m3 Vapor and aerosol, 2,6-bis(1,1-dimethylethyl)-4inhalable. methyl- (CAS 128-37-0) **TWA** 10 mg/m3 Vapor and aerosol, inhalable. phosphoric acid ... %, Inhalable fraction. STEL 4 mg/m3 orthophosphoric acid ... % (CAS 7664-38-2) **TWA** 2 mg/m3 Inhalable fraction. UK. OELs. Workplace Exposure Limits (WELs) (EH40/2005 (Fourth Edition 2020)), Table 1 **Form** Components Value **Type** 1,4-dihydroxybenzene; **TWA** 0.5 mg/m3 hydroquinone; quinol (CAS 123-31-9) methacrylic acid; **STEL** 143 mg/m3 2-methylpropenoic acid (CAS 79-41-4) 40 ppm **TWA** 72 mg/m3 20 ppm methyl methacrylate; methyl STEL 416 mg/m3 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) 100 ppm **TWA** 208 mg/m3 50 ppm Paraffin Wax (CAS STEL 6 mg/m3 Fume. 8002-74-2) **TWA** 2 mg/m3 Fume. Phenol, TWA 10 mg/m3 2,6-bis(1,1-dimethylethyl)-4methyl- (CAS 128-37-0)

Components

UK. OELs. Workplace Exposure Limits (WELs) (EH40/2005 (Fourth Edition 2020)), Table 1 **Form** Components **Type** Value phosphoric acid ... %, STEL 2 mg/m3 orthophosphoric acid ... % (CAS 7664-38-2) **TWA** 1 mg/m3 EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU Components Value Type methyl methacrylate; methyl **STEL** 100 ppm 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) **TWA** 50 ppm phosphoric acid ... %, STEL 2 mg/m3 orthophosphoric acid ... % (CAS 7664-38-2) TWA 1 mg/m3 **Biological limit values** No biological exposure limits noted for the ingredient(s). Follow standard monitoring procedures. Recommended monitoring procedures Derived no effect levels Not available. (DNELs) Not available. Predicted no effect concentrations (PNECs) **Exposure guidelines** Croatia ELVs: Skin designation methyl methacrylate; methyl 2-methylprop-2-enoate; Can be absorbed through the skin. methyl 2-methylpropenoate (CAS 80-62-6) Czech Republic PELs: Skin designation 1,4-dihydroxybenzene; hydroquinone; quinol Can be absorbed through the skin. (CAS 123-31-9) Denmark GV: Skin designation methyl methacrylate; methyl 2-methylprop-2-enoate; Can be absorbed through the skin. methyl 2-methylpropenoate (CAS 80-62-6) Germany DFG MAK (advisory): Skin designation 1,4-dihydroxybenzene; hydroquinone; quinol Can be absorbed through the skin. (CAS 123-31-9) **Hungary OELs: Skin designation**

methyl methacrylate; methyl 2-methylprop-2-enoate;

methyl 2-methylpropenoate (CAS 80-62-6)

Iceland OELs: Skin designation

methyl methacrylate; methyl 2-methylprop-2-enoate;

methyl 2-methylpropenoate (CAS 80-62-6)

Slovakia OELs: Skin designation

1,4-dihydroxybenzene; hydroquinone; quinol

(CAS 123-31-9)

Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)

methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4) Can be absorbed through the skin.

Switzerland SUVA Limit Values at the Workplace: Skin designation

1,4-dihydroxybenzene; hydroquinone; quinol

Can be absorbed through the skin.

(CAS 123-31-9)

8.2. Exposure controls

Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

Can be absorbed through the skin.

Can be absorbed through the skin.

Can be absorbed through the skin.

Individual protection measures, such as personal protective equipment

General information

Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Material name: PLEXUS® MA8110/8120 Adhesive

Eye/face protection

Skin protection

Chemical respirator with organic vapor cartridge and full facepiece.

Wear appropriate chemical resistant gloves. - Hand protection

Wear appropriate chemical resistant clothing. - Other

Chemical respirator with organic vapor cartridge and full facepiece. Respiratory protection

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Hygiene measures When using do not smoke. Always observe good personal hygiene measures, such as washing

after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not

be allowed out of the workplace.

Environmental exposure

controls

Inform appropriate managerial or supervisory personnel of all environmental releases. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Liquid. **Physical state** Paste. **Form**

Tan. or Off-white Color Odor Not available.

Melting point/freezing point **Boiling point or initial boiling**

212,9 °F (100,5 °C) estimated

point and boiling range **Flammability**

-54,4 °F (-48 °C) estimated

Not applicable. Upper/lower flammability or explosive limits

Explosive limit - lower (%) 2,1 % estimated 8,2 % estimated Explosive limit - upper (%)

50,0 °F (10,0 °C) estimated Flash point 815 °F (435 °C) estimated **Auto-ignition temperature**

Decomposition temperature Not available.

pН

Kinematic viscosity Not available.

Solubility

Solubility (water) Not available. Not available. Partition coefficient

(n-octanol/water) (log value)

51,33 hPa estimated Vapor pressure

Density and/or relative density

Density 0,94 g/cm3 estimated

Not available. Vapor density **Particle characteristics** Not available.

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No relevant additional information available.

9.2.2. Other safety characteristics

0.94 estimated Specific gravity

SECTION 10: Stability and reactivity

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

Material is stable under normal conditions. 10.2. Chemical stability

10.3. Possibility of hazardous

No dangerous reaction known under conditions of normal use.

Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the 10.4. Conditions to avoid

flash point. Contact with incompatible materials.

10.5. Incompatible materials Strong oxidizing agents. Nitrates. Peroxides.

Material name: PLEXUS® MA8110/8120 Adhesive

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10.6. Hazardous No hazardous decomposition products are known.

decomposition products

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation Harmful if inhaled.

Skin contact Causes skin irritation. May cause an allergic skin reaction.

Eye contact Causes serious eye irritation.

Ingestion May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of

occupational exposure.

Symptoms Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction.

Dermatitis. Rash.

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

Acute toxicity Harmful if inhaled.

Components Species Test Results

1,4-dihydroxybenzene; hydroquinone; quinol (CAS 123-31-9)

Acute

Dermal

LD50 Rat > 900 mg/kg

dodecyl methacrylate (CAS 142-90-5)

<u>Acute</u>

Dermal

LD50 Rabbit > 3 g/kg

Oral

LD50 Rat > 5 g/kg

maleic acid (CAS 110-16-7)

Acute Dermal

LD50 Rabbit 1560 mg/kg

methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)

Acute

Inhalation

LC50 Rat 7,100000000000000 mg/l, 4 Hours

methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)

<u>Acute</u>

Oral

LD50 Rat 7800 mg/kg

Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (CAS 128-37-0)

Acute

Dermal

LD50 Rat > 2000 mg/kg

Oral

LD50 Rat 890 mg/kg

phosphoric acid ... %, orthophosphoric acid ... % (CAS 7664-38-2)

Acute

Dermal

LD50 Rabbit 2740 mg/kg

Inhalation

LC50 Rabbit 1,689000000000001 mg/l, 1 Hours

Oral

LD50 Rat 1530 mg/kg

Skin corrosion/irritation Causes skin irritation.

Material name: PLEXUS® MA8110/8120 Adhesive

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Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory sensitization Due to partial or complete lack of data the classification is not possible.

Skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicity Due to partial or complete lack of data the classification is not possible. Due to partial or complete lack of data the classification is not possible. Carcinogenicity

Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)

1,4-dihydroxybenzene; hydroquinone; quinol (CAS 123-31-9)

IARC Monographs. Overall Evaluation of Carcinogenicity

1.4-dihvdroxybenzene: hvdroquinone: quinol

3 Not classifiable as to carcinogenicity to humans.

(CAS 123-31-9)

methyl methacrylate; methyl 2-methylprop-2-enoate;

methyl 2-methylpropenoate (CAS 80-62-6)

3 Not classifiable as to carcinogenicity to humans.

Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-

3 Not classifiable as to carcinogenicity to humans.

(CAS 128-37-0)

Styrene/butadiene Copolymer (CAS 9003-55-8) 3 Not classifiable as to carcinogenicity to humans. Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity -

single exposure

Not applicable.

Specific target organ toxicity -

repeated exposure

Reproductive toxicity

Not applicable.

Aspiration hazard

Due to partial or complete lack of data the classification is not possible.

Mixture versus substance

information

No information available.

11.2. Information on other hazards

Endocrine disrupting

properties

This mixture does not contain any substances having endocrine disrupting properties with respect to human health as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than

0.1% by weight.

Not available. Other information

SECTION 12: Ecological information

12.1. Toxicity Harmful to aquatic life with long lasting effects. Based on available data, the classification criteria

are not met for hazardous to the aquatic environment, acute hazard.

12.2. Persistence and

degradability

No data is available on the degradability of any ingredients in the mixture.

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

1,4-dihydroxybenzene; hydroquinone; quinol	0,59
dodecyl methacrylate	6,45
maleic acid	-0,48
methacrylic acid; 2-methylpropenoic acid	0,93
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl	1,38
2-methylpropenoate	
monoalkyl or monoaryl or monoalkyaryl esters of methacrylic	8,64

acid with the exception of those specified elsewhere in this Annex

Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-5,1

Bioconcentration factor (BCF) Not available. 12.4. Mobility in soil No data available.

12.5. Results of PBT and vPvB

assessment

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.

12.6. Endocrine disrupting

properties

This mixture does not contain any substances having endocrine disrupting properties with respect to the environment as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.

12.7. Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

12.8. Additional information

Estonia Dangerous substances in soil Data

1,4-dihydroxybenzene; hydroquinone; quinol

phosphoric acid ... %, orthophosphoric acid ... %

(CAS 123-31-9)

(CAS 7664-38-2)

Hydroquinone (As the sum of Phenols) 0,1 MG/KG

Hydroquinone (As the sum of Phenols) 1 MG/KG

Hydroquinone (As the sum of Phenols) 10 MG/KG Chemical pesticides (As the total sum of the active substances)

0.5 MG/KG

Chemical pesticides (As the total sum of the active substances) 20

MG/KG

Chemical pesticides (As the total sum of the active substances) 5

MG/KG

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

EU waste codeThe Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Special precautionsDispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. UN number UN1133

14.2. UN proper shipping ADHESIVES containing flammable liquid (vapour pressure at 50 °C more than

name 110 kPa), Limited Quantity

14.3. Transport hazard class(es)

Class 3
Subsidiary risk Label(s) 3
Hazard No. (ADR) 33
Tunnel restriction code D/E
14.4. Packing group II
14.5. Environmental hazards No.

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

RID

14.1. UN number UN1133

14.2. UN proper shipping ADHESIVES containing flammable liquid (vapour pressure at 50 °C not more than 110 kPa)

name

14.3. Transport hazard class(es)

Class 3
Subsidiary risk Label(s) 3
14.4. Packing group II
14.5. Environmental hazards No.

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

ADN

14.1. UN number UN1133

14.2. UN proper shipping ADHESIVES containing flammable liquid

name

14.3. Transport hazard class(es)

Class 3
Subsidiary risk Label(s) 3
14.4. Packing group II
14.5. Environmental hazards No.

Material name: PLEXUS® MA8110/8120 Adhesive

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

IATA

UN1133 14.1. UN number

14.2. UN proper shipping Adhesives containing flammable liquid, Limited Quantity

14.3. Transport hazard class(es)

Class 3 Subsidiary risk Ш 14.4. Packing group 14.5. Environmental hazards No. **ERG Code**

14.6. Special precautions

for user

Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

Allowed with restrictions.

aircraft

Allowed with restrictions. Cargo aircraft only

IMDG

UN1133 14.1. UN number

ADHESIVES containing flammable liquid, Limited Quantity 14.2. UN proper shipping

name

14.3. Transport hazard class(es)

3 Class Subsidiary risk Ш 14.4. Packing group 14.5. Environmental hazards

Marine pollutant No. **EmS** F-E, S-D

Read safety instructions, SDS and emergency procedures before handling. 14.6. Special precautions

for user

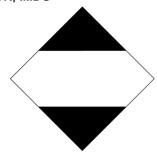
Not established. 14.7. Maritime transport in bulk

according to IMO instruments

ADN; RID







Material name: PLEXUS® MA8110/8120 Adhesive



SECTION 15: Regulatory information

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

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended Not listed.

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

UFI:

Austria: EWA0-40FX-F00M-U43V Belgium: EWA0-40FX-F00M-U43V Bulgaria: EWA0-40FX-F00M-U43V Croatia: EWA0-40FX-F00M-U43V Cyprus: EWA0-40FX-F00M-U43V

Czech Republic: EWA0-40FX-F00M-U43V Denmark: EWA0-40FX-F00M-U43V Estonia: EWA0-40FX-F00M-U43V EU: EWA0-40FX-F00M-U43V Finland: EWA0-40FX-F00M-U43V France: EWA0-40FX-F00M-U43V Germany: EWA0-40FX-F00M-U43V Greece: EWA0-40FX-F00M-U43V Hungary: EWA0-40FX-F00M-U43V Iceland: EWA0-40FX-F00M-U43V Ireland: EWA0-40FX-F00M-U43V Italy: EWA0-40FX-F00M-U43V Latvia: EWA0-40FX-F00M-U43V Lithuania: EWA0-40FX-F00M-U43V Luxembourg: EWA0-40FX-F00M-U43V Malta: EWA0-40FX-F00M-U43V

Malta: EWA0-40FX-F00M-U43V Netherlands: EWA0-40FX-F00M-U43V Norway: EWA0-40FX-F00M-U43V Poland: EWA0-40FX-F00M-U43V Portugal: EWA0-40FX-F00M-U43V Romania: EWA0-40FX-F00M-U43V Slovakia: EWA0-40FX-F00M-U43V Slovenia: EWA0-40FX-F00M-U43V Spain: EWA0-40FX-F00M-U43V Sweden: EWA0-40FX-F00M-U43V

Authorizations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended - Conditions of restriction given for the associated entry number should be considered

dodecyl methacrylate (CAS 142-90-5) 75
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4) 75
monoalkyl or monoaryl or monoalkyaryl esters of 75
methacrylic acid with the exception of those specified
elsewhere in this Annex (CAS 2495-27-4)
Paraffin Wax (CAS 8002-74-2) 3
phosphoric acid ... %, orthophosphoric acid ... % 75
(CAS 7664-38-2)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended

1,4-dihydroxybenzene; hydroquinone; quinol (CAS 123-31-9)

Other EU regulations Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

ANNEX 1, PART 1 Categories of dangerous substances

Hazard categories in accordance with Regulation (EC) No 1272/2008

- P5a, b or c FLAMMABLE LIQUIDS

Other regulations The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP

Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation

(EC) No 1907/2006, as amended.

National regulations Young people under 18 years old are not allowed to work with this product according to EU

Directive 94/33/EC on the protection of young people at work, as amended. Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

France regulations

France INRS Table of Occupational Diseases

1,4-dihydroxybenzene; hydroquinone; quinol Lésions eczématiform

(CAS 123-31-9)

methyl methacrylate; methyl 2-methylprop-2-enoate;

methyl 2-methylpropenoate (CAS 80-62-6)

Paraffin Wax (CAS 8002-74-2)

Lésions eczématiformes de mécanisme allergique 65

Affections provoquées par le méthacrylate de méthyle 82

Affections provoquées par les huiles et graisses d'origine minérale

ou de synthèse 36

Product registration number

Austria UFI: EWA0-40FX-F00M-U43V UFI: EWA0-40FX-F00M-U43V **Belgium Czech Republic** UFI: EWA0-40FX-F00M-U43V Denmark UFI: EWA0-40FX-F00M-U43V UFI: EWA0-40FX-F00M-U43V **European Union Finland** UFI: EWA0-40FX-F00M-U43V **France** UFI: EWA0-40FX-F00M-U43V UFI: EWA0-40FX-F00M-U43V Germany Greece UFI: EWA0-40FX-F00M-U43V Hungary UFI: EWA0-40FX-F00M-U43V UFI: EWA0-40FX-F00M-U43V Italy **Netherlands** UFI: EWA0-40FX-F00M-U43V Norway UFI: EWA0-40FX-F00M-U43V **Poland** UFI: EWA0-40FX-F00M-U43V **Portugal** UFI: EWA0-40FX-F00M-U43V Slovakia UFI: EWA0-40FX-F00M-U43V Slovenia UFI: EWA0-40FX-F00M-U43V UFI: EWA0-40FX-F00M-U43V Spain Sweden UFI: EWA0-40FX-F00M-U43V **Switzerland** UFI: EWA0-40FX-F00M-U43V

15.2. Chemical safety

No Chemical Safety Assessment has been carried out.

assessment

SECTION 16: Other information

List of abbreviations

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR: Agreement concerning the International Carriage of Dangerous Goods by Road.

AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert - Germany).

CAS: Chemical Abstract Service.

CEN: European Committee for Standardization. IATA: International Air Transport Association.

IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous

Chemicals in Bulk.

IMDG: International Maritime Dangerous Goods.

MAC: Maximum Allowed Concentration.

MARPOL: International Convention for the Prevention of Pollution from Ships.

PBT: Persistent, bioaccumulative and toxic.

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

STEL: Short term exposure limit. TLV: Threshold Limit Value. TWA: Time Weighted Average. VLE: Exposure Limit Value. VME: Exposure Average Value.

vPvB: Very persistent and very bioaccumulative.

References

Information on evaluation method leading to the classification of mixture

Full text of any statements, which are not written out in full under sections 2 to 15

Not available.

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

H225 Highly flammable liquid and vapor.

H302 Harmful if swallowed. H311 Toxic in contact with skin. 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.

H330 Fatal if inhaled. H331 Toxic 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.

Revision information

Training information

Disclaimer

None.

Follow training instructions when handling this material.

ITW Performance Polymers cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.

Material name: PLEXUS® MA8110/8120 Adhesive

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