SAFETY DATA SHEET

Version #: 09

Issue date: 10-28-2019 Revision date: 08-23-2024 Supersedes date: 08-03-2023

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 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.)

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.)

Material name: PLEXUS® MA8110/8120 Adhesive
0807 Version #: 09 Revision date: 08-23-2024 Issue date: 10-28-2019

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.)

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Latvia Emergency medical

aid

Latvia Poison and Drug Information Center

+371 67042473 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Lithuania Neatidėliotina 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)

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 Information Service

+ 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 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

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

long-term aquatic hazard long lasting effects.

2.2. Label elements

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

EU: EWA0-40FX-F00M-U43V

Material name: PLEXUS® MA8110/8120 Adhesive 0807 Version #: 09 Revision date: 08-23-2024 Issue date: 10-28-2019 Contains: methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate,

Styrene/butadiene Copolymer, dodecyl methacrylate, methacrylic acid; 2-methylpropenoic acid, maleic acid, Paraffin Wax, Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-, phosphoric acid ... %,

orthophosphoric acid ... %

Hazard pictograms



Signal word	Danger
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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.

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

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

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.

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

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

Storage

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

Disposal

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

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

General 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. 2;H225, Skin Irrit. 2;H315, Skin Sens. 1;H317, STOT SE

3;H335

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

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
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	;H315, STOT SE 3;H	1335		
Specific Concentration Limits:					
methacrylic acid; 2-methylpropenoic acid	2,5 - 10	79-41-4 201-204-4	01-2119463884-26-0000	607-088-00-5	
Classification:	mg/kg bw)		ng/kg bw), Acute Tox. 4;H31 (ATE: 7,1 mg/l), Skin Corr. 1 5		
Specific Concentration Limits:	STOT SE	3;H335: C ≥ 1 %			
maleic acid	1 - 2,5	110-16-7 203-742-5	-	607-095-00-3	
	mg/kg bw) SE 3;H335	, Skin Irrit. 2;H315, E 5, Aquatic Chronic 2;I	ng/kg bw), Acute Tox. 4;H31 ye Irrit. 2;H319, Skin Sens. l411		
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 - 2,5	2495-27-4 219-672-3	-	607-134-00-4	
•	Skin Irrit. 2	2:H315. Eve Irrit. 2:H3	319, STOT SE 3;H335		
Specific Concentration Limits:		•	,		
Paraffin Wax	1 - 2,5	8002-74-2 232-315-6	-	-	
Classification:	-				
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-	1 - 2,5	128-37-0 204-881-4	-	-	
Classification:	Acute Tox. Chronic 2;	. 4;H302;(ATE: 890 n H411	ng/kg bw), Aquatic Acute 1;h	H400, Aquatic	
phosphoric acid %, orthophosphoric acid %	< 1	7664-38-2 231-633-2	-	015-011-00-6	#
Classification:			mg/kg bw), Acute Tox. 2;H3 I4, Eye Dam. 1;H318	330;(ATE:	
Specific Concentration Limits:			Skin Irrit. 2;H315: 10 % ≤ C rit. 2;H319: 10 % ≤ C < 25 %		
1,4-dihydroxybenzene; hydroquinone; quinol	< 0,1	123-31-9 204-617-8	-	604-005-00-4	
Classification:			ng/kg bw), Acute Tox. 3;H31 Skin Sens. 1;H317, Muta. 2;		

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.

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.

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

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.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

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.

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

media

Highly flammable liquid and vapor.

5.1. Extinguishing media

Suitable extinguishing

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.

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

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.

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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)

2 mg/m3

SDS EU

7.3. Specific end use(s)

Observe industrial sector guidance on best practices.

SECTION 8: Exposure controls/personal protection

Austria. MAK List, OEL Ordinance (GwV), BGBI. II, no. 184/2001, as amended

8.1. Control parameters

Occupational exposure limits

Components	Туре	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	

STEL

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	

Material name: PLEXUS® MA8110/8120 Adhesive

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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
	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	Type	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	
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		

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	Туре	Value	Form	
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 mg/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	

Denmark. Work Environment Authority. Exposure Limits for Substances & Materials, Annex 2

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)	STEL	140 mg/m3	
		40 ppm	
	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)	STEL	4 mg/m3	Fume.
	TLV	2 mg/m3	Fume.
Phenol, 2,6-bis(1,1-dimethylethyl)-4- methyl- (CAS 128-37-0)	STEL	20 mg/m3	
,	TLV	10 mg/m3	
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	STEL	2 mg/m3	

Form

TLV 1 mg/m3

Components	Type	bstances (Regulation No. 105 Value	Form
1,4-dihydroxybenzene; nydroquinone; quinol (CAS 123-31-9)	STEL	1,5 mg/m3	
·	TWA	0,5 mg/m3	
nethacrylic acid; 2-methylpropenoic acid CAS 79-41-4)	STEL	100 mg/m3	
		30 ppm	
	TWA	70 mg/m3	
		20 ppm	
nethyl methacrylate; methyl 2-methylprop-2-enoate; nethyl 2-methylpropenoate CAS 80-62-6)	STEL	100 ppm	
	TWA	50 ppm	
Paraffin Wax (CAS 3002-74-2)	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 Components	g Limit Values, Social Affairs Type	and Ministry of Health Value	Form
,4-dihydroxybenzene; nydroquinone; quinol (CAS 23-31-9)	STEL	2 mg/m3	
	TWA	0,5 mg/m3	
nethacrylic acid; 2-methylpropenoic acid CAS 79-41-4)	TWA	71 mg/m3	
		20 ppm	
nethyl methacrylate; methyl 2-methylprop-2-enoate; nethyl 2-methylpropenoate CAS 80-62-6)	STEL	210 mg/m3	
		50 ppm	
	TWA	42 mg/m3	
		10 ppm	
Paraffin Wax (CAS 3002-74-2)	TWA	1 mg/m3	Fume.
Phenol, 2,6-bis(1,1-dimethylethyl)-4- nethyl- (CAS 128-37-0)	STEL	20 mg/m3	
	TWA	10 mg/m3	
ohosphoric acid %, orthophosphoric acid % CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	
	=	cribed by Order of 30 June 20 Value	004, as amended
	Туре		
France. OELs. Indicative Occupation Components phosphoric acid %, prthophosphoric acid % (CAS 7664-38-2)	VLE	2 mg/m3	

VME 1 mg/m3

0 2 222

		0,2 ppm	
France. OELs. Occupational Expo Components	sure Limits as Prescribed by Type	Art. R.4412-149 of Labor Code, as amended Value	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	VLE	410 mg/m3	
		100 ppm	
	VME	205 mg/m3	
		50 ppm	

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 Workplace **Form** Components Value Type methacrylic acid; AGW 180 mg/m3 2-methylpropenoic acid (CAS 79-41-4) 50 ppm methyl methacrylate; methyl **AGW** 210 mg/m3 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) 50 ppm 10 mg/m3 Phenol, **AGW** Inhalable fraction. 2,6-bis(1,1-dimethylethyl)-4methyl- (CAS 128-37-0) phosphoric acid ... %, **AGW** 2 mg/m3 Inhalable fraction. orthophosphoric acid ... % (CAS 7664-38-2)

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

SDS EU

0807 Version #: 09 Revision date: 08-23-2024 Issue date: 10-28-2019

Components	Туре	Value	Form
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)	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	
,	TWA	1 mg/m3	
Hungary. OELs. Decree on protecti Components	on of workers exposed to cl Type	hemical 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	
		100 ppm	
	TWA	208 mg/m3	
	0.751	50 ppm	
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	
celand. OELs. Regulation 390/2009 Components	on Pollution Limits and Me Type	easures to Reduce Pollution at Value	t the Workplace, as amende Form
1,4-dihydroxybenzene; nydroquinone; quinol (CAS 123-31-9)	STEL	2 mg/m3	
	TWA	0,5 mg/m3	
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	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 3002-74-2)	TWA	2 mg/m3	Fume.
Phenol, 2,6-bis(1,1-dimethylethyl)-4- methyl- (CAS 128-37-0)	TWA	10 mg/m3	
ohosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	
roland OELVs Schodules 1 8 2 C	ode of Practice for Chemica	al Agents and Carcinogens Re	
Components	Туре	Value	Form

reland. OELVs, Schedules 1 & 2, C Components	Туре	Value	Form
nethacrylic acid; 2-methylpropenoic acid CAS 79-41-4)	STEL	140 mg/m3	
,		40 ppm	
	TWA	70 mg/m3	
		20 ppm	
nethyl methacrylate; methyl 2-methylprop-2-enoate; nethyl 2-methylpropenoate CAS 80-62-6)	STEL	100 ppm	
,	TWA	50 ppm	
Paraffin Wax (CAS 002-74-2)	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	
hosphoric acid %, orthophosphoric acid % CAS 7664-38-2)	STEL	2 mg/m3	
•	TWA	1 mg/m3	
taly. OELs (Legislative Decree n.8	I, 9 April 2008), as amended		
Components	Туре	Value	Form
,4-dihydroxybenzene; nydroquinone; quinol (CAS 23-31-9)	TWA	1 mg/m3	
nethacrylic acid; 2-methylpropenoic acid CAS 79-41-4)	TWA	20 ppm	
nethyl methacrylate; methyl 2-methylprop-2-enoate; nethyl 2-methylpropenoate CAS 80-62-6)	STEL	100 ppm	
- · · · · · · · · · · · · · · · · · · ·	TWA	50 ppm	
Paraffin Wax (CAS 9002-74-2)	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), as amended	re Limits of Chemical Subst	ances 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	
nethyl methacrylate; methyl 2-methylprop-2-enoate; nethyl 2-methylpropenoate CAS 80-62-6)	TWA	10 mg/m3	
ohosphoric acid %, orthophosphoric acid % CAS 7664-38-2)	STEL	2 mg/m3	
0/10/100/100 2/			

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
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	400 mg/m3
		100 ppm
	TWA	200 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 ° 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	
		100 ppm	
	TWA	205 mg/m3	
		50 ppm	

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

Components	Туре	Value	
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	
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	

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 Limit Values, Annex II, as amended Components Type Value

•	,	
phosphoric acid %,	STEL	2 mg/m3
orthophosphoric acid %		
(CAS 7664-38-2)		

TWA 1 mg/m3

Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796-2014)

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	
	TWA	50 ppm	
Paraffin Wax (CAS 8002-74-2)	TWA	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, Ann. I 100/2001), as amended

Components	Туре	Value	Form
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	KTV	360 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, Ann. I 100/2001), as amended

Components	Туре	Value	Form
		100 ppm	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	KTV	420 mg/m3	
		100 ppm	
Phenol, 2,6-bis(1,1-dimethylethyl)-4- methyl- (CAS 128-37-0)	KTV	40 mg/m3	Inhalable fraction.
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	KTV	2 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	
		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	

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

Components	Туре	Value	
	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; nethyl 2-methylpropenoate CAS 80-62-6)	Ceiling	400 mg/m3	
		100 ppm	
	TWA	200 mg/m3	
		50 ppm	
ohosphoric acid %, orthophosphoric acid % CAS 7664-38-2)	Ceiling	2 mg/m3	
•	TWA	1 mg/m3	
Switzerland. SUVA Grenzwerte am	Arbeitsplatz: Aktuelle MAK-V	Verte	
Components	Туре	Value	Form
1,4-dihydroxybenzene; nydroquinone; quinol (CAS 123-31-9)	STEL	2 mg/m3	Vapor and aerosol, inhalable.
,	TWA	2 mg/m3	Vapor and aerosol, inhalable.
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	STEL	360 mg/m3	
		100 ppm	
	TWA	180 mg/m3	
		50 ppm	
nethyl methacrylate; methyl 2-methylprop-2-enoate; nethyl 2-methylpropenoate CAS 80-62-6)	STEL	420 mg/m3	
		100 ppm	
	TWA	210 mg/m3	
		50 ppm	_
Paraffin Wax (CAS 3002-74-2)	TWA	2 mg/m3	Respirable fume.
Phenol, 2,6-bis(1,1-dimethylethyl)-4- methyl- (CAS 128-37-0)	STEL	40 mg/m3	Vapor and aerosol, inhalable.
	TWA	10 mg/m3	Vapor and aerosol, inhalable.
ohosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	STEL	4 mg/m3	Inhalable fraction.
•	TWA	2 mg/m3	Inhalable fraction.
JK. OELs. Workplace Exposure Li			_
Components	Туре	Value	Form
1,4-dihydroxybenzene; nydroquinone; quinol (CAS 123-31-9)	TWA	0,5 mg/m3	
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	STEL	143 mg/m3	

Components	Type	05 (Fourth Edition 2020)), Table 1 Value Form
		40 ppm
	TWA	72 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)	STEL	6 mg/m3 Fume.
	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
EU. Indicative Exposure Lim Components	nit Values in Directives 91/32 Type	2/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU 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
logical limit values	No biological exposure limits	noted for the ingredient(s).
commended monitoring cedures	Follow standard monitoring p	procedures.
rived no effect levels IELs)	Not available.	
dicted no effect ncentrations (PNECs)	Not available.	
oosure guidelines		
Croatia ELVs: Skin designat		
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) Czech Republic PELs: Skin designation		Can be absorbed through the skin.
1,4-dihydroxybenzene; hydroquinone; quinol (CAS 123-31-9) Denmark GV: Skin designation		Can be absorbed through the skin.
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6) Germany DFG MAK (advisory): Skin designation		Can be absorbed through the skin.
1,4-dihydroxybenzene; hydroquinone; quinol (CAS 123-31-9)		Can be absorbed through the skin.
1,4-dihydroxybenzene; hy (CAS 123-31-9)	•	Can be absorbed unough the can.
1,4-dihydroxybenzene; hy (CAS 123-31-9) Hungary OELs: Skin design	ation	
1,4-dihydroxybenzene; hy (CAS 123-31-9) Hungary OELs: Skin design	ation hyl 2-methylprop-2-enoate; ite (CAS 80-62-6)	Can be absorbed through the skin.

Slovakia OELs: Skin designation

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

Can be absorbed through the skin.

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.

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.

Eye/face protection Wear safety glasses with side shields (or goggles). Face shield is recommended.

Skin protection

- Hand protection Wear appropriate chemical resistant gloves. - Other Wear appropriate chemical resistant clothing.

If engineering controls do not maintain airborne concentrations below recommended exposure Respiratory protection

limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn.

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

levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid. Paste. **Form**

Tan. or Off-white Color Odor Not available.

Melting point/freezing point

-54,4 °F (-48 °C) estimated

Boiling point or initial boiling

point and boiling range

212,9 °F (100,5 °C) estimated

Flammability Not applicable.

Upper/lower flammability or explosive limits Explosive limit - lower (%) 2.1 % estimated

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

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

Not available. **Decomposition temperature**

5 pН

Kinematic viscosity Not available.

Solubility

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

(n-octanol/water) (log value)

51,33 hPa estimated Vapor pressure

Material name: PLEXUS® MA8110/8120 Adhesive

0807 Version #: 09 Revision date: 08-23-2024 Issue date: 10-28-2019 19 / 26 Density and/or relative density

Density 0,94 g/cm3 estimated

Vapor densityNot available.Particle characteristicsNot available.

9.2. Other information

9.2.1. Information with regard No relevant additional information available.

to physical hazard classes

9.2.2. Other safety characteristics

Specific gravity 0,94 estimated

SECTION 10: Stability and reactivity

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

10.2. Chemical stability Material is stable under normal conditions.

10.3. Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

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

flash point. Contact with incompatible materials.

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

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)

Acute Dermal

LD50 Rabbit > 3 g/kg

Oral

LD50 Rat > 5 g/kg

maleic acid (CAS 110-16-7)

<u>Acute</u>

Dermal

LD50 Rabbit 1560 mg/kg

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

<u>Acute</u>

Inhalation

LC50 Rat 7,1 mg/l, 4 Hours

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Components Species Test Results

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

Acute 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 1,689 mg/l, 1 Hours

Oral

LD50 Rat 1530 mg/kg

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory sensitizationDue 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.

Carcinogenicity

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

IARC Monographs. Overall Evaluation of Carcinogenicity

1,4-dihydroxybenzene; hydroquinone; quinol 3 Not classifiable as to carcinogenicity to humans.

(CAS 123-31-9)

methyl methacrylate; methyl 2-methylprop-2-enoate; 3 Not classifiable as to carcinogenicity to humans.

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

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.

Reproductive toxicity 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

Not applicable.

Aspiration hazardDue 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.

Other information Not available.

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

Material name: PLEXUS® MA8110/8120 Adhesive
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dodecyl methacrylate 6,45 maleic acid -0,48methacrylic 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 Hydroquinone (As the sum of Phenols) 0,1 MG/KG (CAS 123-31-9)

> Hydroquinone (As the sum of Phenols) 1 MG/KG Hydroquinone (As the sum of Phenols) 10 MG/KG

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

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).

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

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

disposal.

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

disposal company.

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

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 precautions Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. UN number **UN1133**

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

110 kPa), Limited Quantity name

14.3. Transport hazard class(es)

Class 3 Subsidiary hazard 3 Label(s) Hazard No. (ADR) 33 D/E Tunnel restriction code 14.4. Packing group Ш

14.5. Environmental hazards No.

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

for user

RID

UN1133 14.1. UN number

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 hazard 3 Label(s) 14.4. Packing group Ш 14.5. Environmental hazards No. Read safety instructions, SDS and emergency procedures before handling. 14.6. Special precautions for user ADN 14.1. UN number 14.2. UN proper shipping ADHESIVES containing flammable liquid 14.3. Transport hazard class(es) 3 Class Subsidiary hazard Label(s) 3 14.4. Packing group Ш 14.5. Environmental hazards No. 14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling. for user IATA 14.1. UN number UN1133 14.2. UN proper shipping Adhesives containing flammable liquid, Limited Quantity 14.3. Transport hazard class(es) 3 Class Subsidiary hazard Ш 14.4. Packing group 14.5. Environmental hazards No. **ERG Code** Read safety instructions, SDS and emergency procedures before handling. 14.6. Special precautions for user Other information Allowed with restrictions. Passenger and cargo aircraft Cargo aircraft only Allowed with restrictions. **IMDG** 14.1. UN number UN1133 ADHESIVES containing flammable liquid, Limited Quantity 14.2. UN proper shipping name 14.3. Transport hazard class(es) Class **Subsidiary hazard** 14.4. Packing group Ш 14.5. Environmental hazards Marine pollutant **EmS** 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





ADR; IMDG



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

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

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

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

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

UFI:

EU: 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

Not listed.

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

Not listed.

Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex I, as amended

Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex II, as amended

Not listed.

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

Material name: PLEXUS® MA8110/8120 Adhesive

0807 Version #: 09 Revision date: 08-23-2024 Issue date: 10-28-2019 24 / 26 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. Use of this product by young persons under the age of 18 is not allowed in accordance with the Management of Health and Safety at Work Regulations 1999 [SI 1999/3242], 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

(CAS 123-31-9)

dodecyl methacrylate (CAS 142-90-5)

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

methyl 2-methylpropenoate (CAS 80-62-6) monoalkyl or monoaryl or monoalkyaryl esters of methacrylic acid with the exception of those specified

elsewhere in this Annex (CAS 2495-27-4)

Paraffin Wax (CAS 8002-74-2)

Lésions eczématiformes de mécanisme allergique 65

Lésions eczématiformes de mécanisme allergique 65 Affections provoquées par le méthacrylate de méthyle 82

Lésions eczématiformes de mécanisme allergique 65

Affections provoquées par les huiles et graisses d'origine minérale ou de synthèse 36

Product registration number

Austria UFI: EWA0-40FX-F00M-U43V **Belgium** UFI: EWA0-40FX-F00M-U43V **Czech Republic** UFI: EWA0-40FX-F00M-U43V **Denmark** UFI: EWA0-40FX-F00M-U43V **European Union** UFI: EWA0-40FX-F00M-U43V **Finland** UFI: EWA0-40FX-F00M-U43V **France** UFI: EWA0-40FX-F00M-U43V Germany UFI: EWA0-40FX-F00M-U43V UFI: EWA0-40FX-F00M-U43V Greece UFI: EWA0-40FX-F00M-U43V Hungary 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 Spain UFI: EWA0-40FX-F00M-U43V UFI: EWA0-40FX-F00M-U43V Sweden UFI: EWA0-40FX-F00M-U43V **Switzerland**

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

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.

 ${\sf MARPOL:}\ International\ Convention\ for\ the\ Prevention\ of\ Pollution\ from\ Ships.$

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 Not available.

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

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.

SECTION 2: Hazards identification: Prevention

SECTION 2: Hazards identification: Response

Composition / Information on Ingredients: Ingredient Classification SECTION 8: Exposure controls/personal protection: Eye/face protection SECTION 8: Exposure controls/personal protection: Respiratory protection SECTION 8: Exposure controls/personal protection: PPE Symbols

SECTION 11: Toxicological information: Acute toxicity

Training information Disclaimer

Revision information

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.

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