## SAFETY DATA SHEET

Version #: 05

Issue date: 07-12-2019 Revision date: 08-03-2023 Supersedes date: 07-13-2023

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

1.1. Product identifier

Trade name or designation

of the mixture

PLEXUS® MA832 Adhesive

Registration number

None.

Synonyms SKU#

0533

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

Not available.

Uses advised against

None 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 Telephone Number**  **Customer Service** 353(61)771500

353(61)471285

**Fmail** 

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.)

**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® MA832 Adhesive

0533 Version #: 05 Revision date: 08-03-2023 Issue date: 07-12-2019

#### 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.)

Latvia Emergency medical

aid

113

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.)

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

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** 

Skin corrosion/irritation H315 - Causes skin irritation. Category 2 Serious eye damage/eye irritation Category 1

H318 - Causes serious eye

damage.

Skin sensitization Category 1 H317 - May cause an allergic skin

reaction.

Specific target organ toxicity - single exposure

Category 3 respiratory tract irritation

H335 - May cause respiratory

irritation.

**Environmental hazards** 

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

long-term aquatic hazard long lasting effects.

#### 2.2. Label elements

0533 Version #: 05 Revision date: 08-03-2023 Issue date: 07-12-2019

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

UFI:

Austria: NV90-2065-S00P-W143 Belgium: NV90-2065-S00P-W143 Bulgaria: NV90-2065-S00P-W143 Croatia: NV90-2065-S00P-W143 Cyprus: NV90-2065-S00P-W143

Czech Republic: NV90-2065-S00P-W143 Denmark: NV90-2065-S00P-W143 Estonia: NV90-2065-S00P-W143 EU: NV90-2065-S00P-W143 Finland: NV90-2065-S00P-W143 France: NV90-2065-S00P-W143 Germany: NV90-2065-S00P-W143 Greece: NV90-2065-S00P-W143 Hungary: NV90-2065-S00P-W143 Iceland: NV90-2065-S00P-W143 Ireland: NV90-2065-S00P-W143 Italy: NV90-2065-S00P-W143 Latvia: NV90-2065-S00P-W143 Lithuania: NV90-2065-S00P-W143 Luxembourg: NV90-2065-S00P-W143 Malta: NV90-2065-S00P-W143 Netherlands: NV90-2065-S00P-W143 Norway: NV90-2065-S00P-W143

Netherlands: NV90-2065-S00P-W1 Norway: NV90-2065-S00P-W143 Poland: NV90-2065-S00P-W143 Portugal: NV90-2065-S00P-W143 Romania: NV90-2065-S00P-W143 Slovakia: NV90-2065-S00P-W143 Slovenia: NV90-2065-S00P-W143 Spain: NV90-2065-S00P-W143

Sweden: NV90-2065-S00P-W143

methacrylic acid; 2-methylpropenoic acid, methyl methacrylate; methyl 2-methylprop-2-enoate;

methyl 2-methylpropenoate

#### **Hazard pictograms**

Contains:







### Signal word Danger

#### **Hazard statements**

H225 Highly flammable liquid and vapor.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.

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.

P310 Immediately call a POISON CENTER/doctor.

P333 + P313 If skin irritation or rash occurs: 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 + P233 Store in a well-ventilated place. Keep container tightly closed.

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

P405 Store locked up.

Disposal

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

Supplemental label information

n 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 - 70	80-62-6 201-297-1	01-2119452498-28-0000	607-035-00-6	#
Classification:	Flam. Liq. 3;H335	2;H225, Skin Irrit. 2;F	H315, Skin Sens. 1;H317, S	TOT SE	
Specific Concentration Limits:	STOT SE	3;H335: C ≥ 10 %			
methacrylic acid; 2-methylpropenoic acid	3 - < 5	79-41-4 201-204-4	01-2119463884-26-0000	607-088-00-5	
	mg/kg bw) Corr. 1A;H	, Acute Tox. 3;H331; l314, Eye Dam. 1;H3	ng/kg bw), Acute Tox. 4;H31 (ATE: 7,1000000000000000 18, STOT SE 3;H335		
Specific Concentration Limits:	310136	3,⊓333. C ≥ 1 %			
zinc oxide	< 1	1314-13-2 215-222-5	-	030-013-00-7	
Classification:	Aquatic Ac	cute 1;H400, Aquatic	Chronic 1;H410		
N,N-dimethyl-p-toluidine; [1] N,N-dimethyl-m-toluidine; [2] N,N-dimethyl-o-toluidine [3]	< 0,3	99-97-8 202-805-4	-	612-056-00-9	
Classification:	mg/kg bw)		ng/kg bw), Acute Tox. 3;H31 (ATE: 3 mg/l), Carc. 2;H351 2		

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

7664-38-2

231-633-2

Specific Concentration Limits: Skin Corr. 1B;H314: C ≥ 25 %, Skin Irrit. 2;H315: 10 % ≤ C < 25 %, Eye

< 0,2

Dam. 1;H314: C ≥ 25 %, Eye Irrit. 2;H319: 10 % ≤ C < 25 %

Other components below reportable

levels

## List of abbreviations and symbols that may be used above

ATE: Acute toxicity estimate.

phosphoric acid ... %,

orthophosphoric acid ... %

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. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

0533 Version #: 05 Revision date: 08-03-2023 Issue date: 07-12-2019

015-011-00-6

#### 4.1. Description of first aid measures

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

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

present and easy to do. Continue rinsing. Get medical attention immediately.

**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. Permanent eye damage including blindness could result. May cause respiratory irritation. 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 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.

**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.

0533 Version #: 05 Revision date: 08-03-2023 Issue date: 07-12-2019

## **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. Do not get this material in contact with eyes. Avoid breathing mist/vapors. Avoid contact with eyes, skin, and clothing. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

# 7.2. Conditions for safe storage, including any incompatibilities

Store locked up. 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)

10 mg/m3

#### 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
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	
	MAK	210 mg/m3	
		50 ppm	
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	MAK	1 mg/m3	
	STEL	2 mg/m3	
zinc oxide (CAS 1314-13-2)	MAK	5 mg/m3	Fume and respirable dust.
	STEL	20 mg/m3	Inhalable fraction.

## 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
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.

Material name: PLEXUS® MA832 Adhesive

Respirable fraction.

Components	Туре	Value	Form
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	
zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Respirable fraction.
	TWA	2 mg/m3	Respirable fraction.

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

Components	Type	Value	
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	
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	
zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	
	TWA	5 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
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.
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	MAC	1 mg/m3	
	STEL	2 mg/m3	
zinc oxide (CAS 1314-13-2)	MAC	2 mg/m3	Respirable dust.
	STEL	10 mg/m3	Respirable dust.

#### Cyprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation, PI 311/73, as amended Components **Type** Value Form

zinc oxide (CAS 1314-13-2) TWA 5 mg/m3 Fume. 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 **Type** Value methyl methacrylate; methyl STEL 100 ppm 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)

Components	Туре	Value	
	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	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	Ceiling	150 mg/m3	
	TWA	50 mg/m3	
N,N-dimethyl-p-toluidine; [1] N,N-dimethyl-m-toluidine; [2] N,N-dimethyl-o-toluidine [3] (CAS 99-97-8)	Ceiling	10 mg/m3	
	TWA	5 mg/m3	
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	Ceiling	2 mg/m3	
	TWA	1 mg/m3	
zinc oxide (CAS 1314-13-2)	Ceiling	5 mg/m3	
	TWA	2 mg/m3	

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

Components	Туре	Value	Form
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.
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	TLV	1 mg/m3	
zinc oxide (CAS 1314-13-2)	TLV	4 mg/m3	

## Estonia. OELs. Occupational Exposure Limits of Hazardous Substances (Regulation No. 105/2001, Annex), as amended Components Type Value Form

Components	Туре	Value Form	
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	

Components	Туре	julation No. 105/200 Value	Form
ohosphoric acid %, orthophosphoric acid % CAS 7664-38-2)	STEL	2 mg/m3	Vapor.
(ONO 1004-30-2)	TWA	1 mg/m3	Vapor.
zinc oxide (CAS 1314-13-2)	TWA	5 mg/m3	тарот.
·		-	
Finland. HTP-arvot, App 3., Binding Limit \ Components	/alues, Social Affairs and Ministry of Type	of Health Value	Form
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	210 mg/m3	
		50 ppm	
	TWA	42 mg/m3	
		10 ppm	
Paraffin Wax (CAS 8002-74-2)	TWA	1 mg/m3	Fume.
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	STEL	2 mg/m3	
(	TWA	1 mg/m3	
zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Fume.
,	TWA	2 mg/m3	Fume.
France OFI a Indicative Occupational Eve		-	
France. OELs. Indicative Occupational Exp Components	Type	Value	as amended
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	VLE	2 mg/m3	
		0,5 ppm	
	VME	1 mg/m3	
		0,2 ppm	
France. OELs. Occupational Exposure Lim	nits as Prescribed by Art. R.4412-14 Type	9 of Labor Code, as Value	s amended
Components	- 71	Valuo	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate	VLE	410 mg/m3	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate		410 mg/m3	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate	VLE	410 mg/m3 100 ppm	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate		410 mg/m3 100 ppm 205 mg/m3	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	VLE	410 mg/m3 100 ppm 205 mg/m3 50 ppm	ED 984
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)  France. Threshold Limit Values (VLEP) for Components	VLE  VME  Occupational Exposure to Chemic Type	410 mg/m3  100 ppm  205 mg/m3  50 ppm  als in France, INRS Value	ED 984 Form
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)  France. Threshold Limit Values (VLEP) for Components methacrylic acid; 2-methylpropenoic acid	VLE  VME  Occupational Exposure to Chemic	410 mg/m3  100 ppm  205 mg/m3  50 ppm  als in France, INRS	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)  France. Threshold Limit Values (VLEP) for Components methacrylic acid; 2-methylpropenoic acid	VME  Occupational Exposure to Chemic Type  VME	410 mg/m3  100 ppm  205 mg/m3  50 ppm  als in France, INRS Value  70 mg/m3	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)  France. Threshold Limit Values (VLEP) for Components methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4) Regulatory status: Indicative limit (VL	VLE  VME  Occupational Exposure to Chemic Type  VME	410 mg/m3  100 ppm  205 mg/m3  50 ppm  als in France, INRS Value	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)  France. Threshold Limit Values (VLEP) for Components  methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)  Regulatory status: Indicative limit (VL	VLE  VME  Occupational Exposure to Chemic Type  VME  -)	410 mg/m3  100 ppm 205 mg/m3 50 ppm als in France, INRS Value 70 mg/m3	
-	VLE  VME  Occupational Exposure to Chemic Type  VME	410 mg/m3  100 ppm  205 mg/m3  50 ppm  als in France, INRS Value  70 mg/m3	

Components	Туре	Value	Form
		100 ppm	
Regulatory status:	Regulatory binding (VRC)		
	VME	205 mg/m3	
Regulatory status:	Regulatory binding (VRC)		
		50 ppm	
Regulatory status:	Regulatory binding (VRC)		
Paraffin Wax (CAS 8002-74-2)	VME	2 mg/m3	Fume.
Regulatory status:	Indicative limit (VL)		
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	VLE 6	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)		
zinc oxide (CAS 1314-13-	2) VME	5 mg/m3	Fume.
Regulatory status:	Indicative limit (VL)		

Regulatory status: Indicative limit (VL)

Components

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

Type

10 mg/m3

Value

Dust.

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	
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 Workpla	ace	
Components	Туре	Value	Form
	AGW	180 mg/m3	
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	AGW	100 mg/mo	
2-methylpropenoic acid	AOW	50 ppm	
2-methylpropenoic acid	AGW	Ç	
2-methylpropenoic acid (CAS 79-41-4) methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate		50 ppm	
2-methylpropenoic acid (CAS 79-41-4) methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate		50 ppm 210 mg/m3	Inhalable fraction.
2-methylpropenoic acid (CAS 79-41-4)  methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)  phosphoric acid %, orthophosphoric acid %	AGW	50 ppm 210 mg/m3 50 ppm	Inhalable fraction. Inhalable fraction.

	Туре	Value	Form
methacrylic acid;	STEL	140 mg/m3	
2-methylpropenoic acid			
(CAS 79-41-4)		40	
	T10/0	40 ppm	
	TWA	70 mg/m3	
	OTE!	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	STEL	6 mg/m3	Fume.
8002-74-2)			_
	TWA	2 mg/m3	Fume.
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	STEL	3 mg/m3	
	TWA	1 mg/m3	
zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Fume.
	TWA	5 mg/m3	Fume.
Hungary. OELs. Decree on protection	on of workers exposed to chemi	cal agents (5/2020, (II.6)), Ar	nnex 1&2. as amended
Components	Туре	Value	Form
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	415 mg/m3	
(0.12 00 02 0)	TWA	208 mg/m3	
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	STEL	2 mg/m3	
(	TWA	1 mg/m3	
zinc oxide (CAS 1314-13-2)	TWA	5 mg/m3	Fume.
		5 mg/m3	Dust.
Iceland. OELs. Regulation 390/2009 Components	on Pollution Limits and Measur Type	es to Reduce Pollution at th Value	e Workplace, as amended Form
OUTIDUTETTS		Value	1 01111
<u> </u>			101111
methacrylic acid; 2-methylpropenoic acid	TWA	70 mg/m3	1 01111
methacrylic acid; 2-methylpropenoic acid			
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)  methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate		70 mg/m3	
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4) methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate	TWA	70 mg/m3 20 ppm 100 ppm	
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	70 mg/m3 20 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 8002-74-2) phosphoric acid %, orthophosphoric acid %	TWA STEL	70 mg/m3 20 ppm 100 ppm 50 ppm	
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) phosphoric acid %, orthophosphoric acid %	TWA STEL TWA TWA	70 mg/m3 20 ppm 100 ppm 50 ppm 2 mg/m3	
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) phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	TWA  STEL  TWA  TWA  STEL	70 mg/m3 20 ppm 100 ppm 50 ppm 2 mg/m3 2 mg/m3	
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) phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)  zinc oxide (CAS 1314-13-2)  Ireland. OELVs, Schedules 1 & 2, Co	TWA  STEL  TWA  TWA  STEL  TWA  TWA  TWA	70 mg/m3 20 ppm 100 ppm 50 ppm 2 mg/m3 2 mg/m3 4 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 8002-74-2) phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)  zinc oxide (CAS 1314-13-2)  Ireland. OELVs, Schedules 1 & 2, Cocomponents  methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	TWA  STEL  TWA TWA  STEL  TWA  TWA  TWA  TWA  TWA  TWA  Ode of Practice for Chemical Ago	70 mg/m3  20 ppm 100 ppm  50 ppm 2 mg/m3 2 mg/m3 4 mg/m3 4 mg/m3  ents and Carcinogens Regue	Fume. Fume.

Components	Type	ll Agents and Carcinogens Re 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	
(0.12 0.1 0.1	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	
zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Respirable fraction and fume.
	TWA	2 mg/m3	Respirable fraction and fume.
Italy. OELs (Legislative Decree n.8 Components	1, 9 April 2008), as amended Type	Value	Form
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.
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	
zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Respirable fraction.
	TWA	2 mg/m3	Respirable fraction.
Latvia. OELs. Occupational Expos	ure Limits of Chemical Subs	tances at Workplace (Reg. No	. 325/ 2007, L.V. 80, Annex
1), as amended	Time	Value	
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	
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	
zinc oxide (CAS 1314-13-2)	TWA	0,5 mg/m3	
Lithuania. OELs. Occupational Exp V-824/A1-389), as amended			rm HN 23:2011; Order No.
Components	Туре	Value	
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	STEL	100 mg/m3	
		30 ppm	
	TWA	70 mg/m3	

Components	Туре	Value	
		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	
ohosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	
zinc oxide (CAS 1314-13-2)	TWA	5 mg/m3	
Luxembourg. OELs. Binding Occu  n ° 235/2016, as amended	pational Exposure Limit Valu	es (Annex I), G.D.R. of 14 November 2016, OJ I	Memorial A
Components	Туре	Value	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	100 ppm	
	TWA	50 ppm	
ohosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	STEL	2 mg/m3	
,	TWA	1 mg/m3	
	and Safety of Workers from R	isks related to Chemical Agents at Work (L.N 2	27/2003
Malta. OELs. Protection of Health a Schedules I and V), as amended Components methyl methacrylate; methyl	Type STEL	isks related to Chemical Agents at Work (L.N 2  Value  100 ppm	227/2003
Schedules I and V), as amended Components	Туре	Value	227/2003
Schedules I and V), as amended Components  methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	Type STEL TWA	Value 100 ppm 50 ppm	227/2003
Schedules I and V), as amended Components methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate	Type STEL	Value 100 ppm	227/2003
Schedules I and V), as amended Components  methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)  phosphoric acid %, orthophosphoric acid %	Type STEL TWA	Value 100 ppm 50 ppm	227/2003
Schedules I and V), as amended Components  methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)  phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)  Netherlands. OELs per Annex XIII of Components and the components acid %	Type STEL  TWA STEL  TWA	Value 100 ppm 50 ppm 2 mg/m3	
Schedules I and V), as amended Components  methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)  chosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	Type STEL  TWA STEL  TWA	Value 100 ppm 50 ppm 2 mg/m3	
Schedules I and V), as amended Components  methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)  chosphoric acid %, crthophosphoric acid % (CAS 7664-38-2)  Netherlands. OELs per Annex XIII camended Components  methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate	Type STEL  TWA STEL  TWA  TWA  Of Working Conditions Regul	Value  100 ppm  50 ppm 2 mg/m3  1 mg/m3  ation (Staatscourant no. 252, 29 December 200	
Schedules I and V), as amended Components  methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)  phosphoric acid %, prthophosphoric acid % (CAS 7664-38-2)  Netherlands. OELs per Annex XIII camended Components  methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate	Type STEL  TWA STEL  TWA  TWA  of Working Conditions Regul  Type	Value  100 ppm  50 ppm 2 mg/m3  1 mg/m3  ation (Staatscourant no. 252, 29 December 200)  Value	
Schedules I and V), as amended Components  methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)  chosphoric acid %, crthophosphoric acid % (CAS 7664-38-2)  Netherlands. OELs per Annex XIII camended Components  methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)  chosphoric acid %, crthophosphoric acid %	Type STEL  TWA STEL  TWA of Working Conditions Regul  Type  STEL	Value  100 ppm  50 ppm 2 mg/m3  1 mg/m3  ation (Staatscourant no. 252, 29 December 200  Value  410 mg/m3	
Schedules I and V), as amended Components  methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)  chosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)  Netherlands. OELs per Annex XIII camended Components  methyl methacrylate; methyl 2-methyl prop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)  chosphoric acid %, orthophosphoric acid %	Type STEL  TWA STEL  TWA of Working Conditions Regul  Type  STEL  TWA	Value  100 ppm  50 ppm 2 mg/m3  1 mg/m3  ation (Staatscourant no. 252, 29 December 200  Value  410 mg/m3	
Schedules I and V), as amended Components  methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)  chosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)  Netherlands. OELs per Annex XIII camended Components  methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)  chosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	Type STEL  TWA STEL  TWA of Working Conditions Regul  Type STEL  TWA STEL  TWA STEL  TWA STEL	Value  100 ppm  50 ppm 2 mg/m3  1 mg/m3  ation (Staatscourant no. 252, 29 December 200  Value  410 mg/m3  205 mg/m3 2 mg/m3	6), as
Schedules I and V), as amended Components  methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)  chosphoric acid %, crthophosphoric acid % (CAS 7664-38-2)  Netherlands. OELs per Annex XIII camended Components  methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylprop-anoate (CAS 80-62-6)  chosphoric acid %, crthophosphoric acid % (CAS 7664-38-2)  Norway. Regulation No. 1358 on Methyl Re	Type STEL  TWA STEL  TWA of Working Conditions Regul  Type STEL  TWA STEL  TWA STEL  TWA STEL	Value  100 ppm  50 ppm 2 mg/m3  1 mg/m3  ation (Staatscourant no. 252, 29 December 200  Value  410 mg/m3  205 mg/m3 2 mg/m3 1 mg/m3	6), as
Schedules I and V), as amended Components  methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)  chosphoric acid %, crthophosphoric acid % (CAS 7664-38-2)  Netherlands. OELs per Annex XIII of amended Components  methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)  chosphoric acid %, crthophosphoric acid % (CAS 7664-38-2)  Norway. Regulation No. 1358 on Moinfection Groups for Biological Face	Type STEL  TWA STEL  TWA of Working Conditions Regul  Type STEL  TWA stel  T	Value  100 ppm  50 ppm 2 mg/m3  1 mg/m3  ation (Staatscourant no. 252, 29 December 200  Value  410 mg/m3  205 mg/m3 2 mg/m3 1 mg/m3  Physical and Chemical Factors in Work Enviro	6), as

Components	Туре	Value	Form
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	
zinc oxide (CAS 1314-13-2)	TLV	5 mg/m3	Respirable dust.
		5 mg/m3	Dust.
		10 mg/m3	Total dust.
Poland. Maximum permissible con 1286/2018, Annex 1)	centrations and intensities o	of harmful factors in the work of	environment (Dz.U.Poz.
Components	Туре	Value	Form
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	
zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Inhalable fraction.
	TWA	5 mg/m3	Inhalable fraction.
Portugal. Decree-Law No. 24/2012,		it Values, Annex II, as amende Value	ed
Components	Туре		
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	STEL	2 mg/m3	
,	TWA	1 mg/m3	
Portugal. VLEs. Norm on occupation Components	onal exposure to chemical aç Type	gents (NP 1796-2014) Value	Form
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	TWA	2 mg/m3	Fume.

8002-74-2)

phosphoric acid ... %,

(CAS 7664-38-2)

orthophosphoric acid ... %

zinc oxide (CAS 1314-13-2)

STEL

TWA

**STEL** 

TWA

3 mg/m3

1 mg/m3

10 mg/m3

2 mg/m3

Respirable fraction.

Respirable fraction.

## 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	
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		
zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Fume.	
	TWA	5 mg/m3	Fume.	

## 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
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	
zinc oxide (CAS 1314-13-2)	STEL	1 mg/m3	Respirable fume.
	TWA	1 mg/m3	Respirable fume.

## 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	
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	TWA	1 mg/m3	
zinc oxide (CAS 1314-13-2)	TWA	10 mg/m3 1,25 mg/m3	Inhalable fraction. Respirable fraction.

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

Components	Туре	Value	Form
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.
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	
zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Respirable fraction.
	TWA	2 mg/m3	Respirable fraction.

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

Components	Туре	Value	Form
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	
	TWA	1 mg/m3	
zinc oxide (CAS 1314-13-2)	TWA	5 mg/m3	Total dust.
Switzerland. SUVA Grenzwerte am	Arbeitsplatz: Aktuelle MAK-W	/erte	
Components	Туре	Value	Form
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	STEL	360 mg/m3	
		100 ppm	
	TWA	180 mg/m3	
		50 ppm	
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (CAS 80-62-6)	STEL	420 mg/m3	
		100 ppm	
	TWA	210 mg/m3	

2 mg/m3

Paraffin Wax (CAS

8002-74-2)

**TWA** 

Respirable fume.

Components	Туре	Value	Form
phosphoric acid %, orthophosphoric acid % (CAS 7664-38-2)	STEL	4 mg/m3	Inhalable fraction.
	TWA	2 mg/m3	Inhalable fraction.
zinc oxide (CAS 1314-13-2)	STEL	3 mg/m3	Respirable fume.
	TWA	3 mg/m3	Respirable fume.
UK. OELs. Workplace Expos	sure Limits (WELs) (EH40/200 Type	95 (Fourth Edition 2020)), Table 1 Value	Form
methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4)	STEL	143 mg/m3	
(6/16/10/11/)		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	
(3.15 32 32 2)		100 ppm	
	TWA	208 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	
zinc oxide (CAS 1314-13-2)	TWA	4 mg/m3	Respirable dust.
		10 mg/m3	Inhalable dust.
EU. Indicative Exposure Lim Components	nit Values in Directives 91/322 Type	2/EEC, 2000/39/EC, 2006/15/EC, 2009 Value	)/161/EU, 2017/164/EU
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	
ogical limit values	No biological exposure limits	_	
ommended monitoring cedures	Follow standard monitoring p	• , ,	
ved no effect levels ELs)	Not available.		
dicted no effect centrations (PNECs)	Not available.		
osure guidelines	Occupational Exposure Limit	s are not relevant to the current physic	al form of the product.
Croatia ELVs: Skin designat	ion		
methyl methacrylate; met methyl 2-methylpropenoa Denmark GV: Skin designati		Can be absorbed through the skin.	
methyl methacrylate; met methyl 2-methylpropenoa	hyl 2-methylprop-2-enoate; te (CAS 80-62-6)	Can be absorbed through the skin.	

Material name: PLEXUS® MA832 Adhesive

SDS EU

17 / 25 0533 Version #: 05 Revision date: 08-03-2023 Issue date: 07-12-2019

#### Germany DFG MAK (advisory): Skin designation

N,N-dimethyl-p-toluidine; [1] N,N-dimethyl-m-toluidine; [2] Can be absorbed through the skin.

N,N-dimethyl-o-toluidine [3] (CAS 99-97-8)

**Hungary OELs: Skin designation** 

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

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

Can be absorbed through the skin.

Iceland OELs: Skin designation

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

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

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.

#### 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

Use personal protective equipment as required. Personal protection equipment should be chosen **General information** 

according to the CEN standards and in discussion with the supplier of the personal protective

equipment.

Eye/face protection

Respiratory protection

Chemical respirator with organic vapor cartridge and full facepiece.

Chemical respirator with organic vapor cartridge and full facepiece.

Skin protection

Wear appropriate chemical resistant gloves. - Hand protection

Wear appropriate chemical resistant clothing.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

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

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.

Liquid. Paste. **Form** Off-white Color Odor Fragrant

Melting point/freezing point -54,4 °F (-48 °C) estimated 212,9 °F (100,5 °C) estimated Boiling point or initial boiling

point and boiling range

Not applicable. **Flammability** Upper/lower flammability or explosive limits

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

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

**Decomposition temperature** Not available. Not available. рH Kinematic viscosity Not available.

Solubility

Solubility (water) Not available Partition coefficient Not available.

(n-octanol/water) (log value)

Material name: PLEXUS® MA832 Adhesive 0533 Version #: 05 Revision date: 08-03-2023 Issue date: 07-12-2019

51,33 hPa estimated Vapor pressure

Density and/or relative density

Density 0,94 g/cm3 estimated

Vapor density Not available. Not available. Particle characteristics

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 VOC 63,94 % estimated <50 g/l Mixed

## **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

reactions

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.

No hazardous decomposition products are known. 10.6. Hazardous

decomposition products

## SECTION 11: Toxicological information

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

Information on likely routes of exposure

Inhalation May cause irritation to the respiratory system.

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

Causes serious eye damage. Eye contact

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. Permanent eye damage including blindness could result. May cause respiratory irritation. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis.

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

**Acute toxicity** Not known.

Components Species **Test Results** 

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

**Acute** Inhalation

LC50 Rat 7,1000000000000005 mg/l, 4 Hours

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

**Acute** Oral

LD50 Rat 7800 mg/kg

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

**Acute** 

**Dermal** 

LD50 Rabbit 2740 mg/kg

Inhalation

Rabbit LC50 1,689000000000001 mg/l, 1 Hours

Oral

LD50 Rat 1530 mg/kg

Material name: PLEXUS® MA832 Adhesive

Components **Species Test Results** 

zinc oxide (CAS 1314-13-2)

Acute Inhalation

LC50 Mouse > 5,7000000000000000 mg/l, 4 Hours

Oral

LD50 Rat > 5 g/kg

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye

Causes serious eye damage.

irritation

Respiratory sensitization Not a respiratory sensitizer.

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 Risk of cancer cannot be excluded with prolonged exposure.

IARC Monographs. Overall Evaluation of Carcinogenicity

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

3 Not classifiable as to carcinogenicity to humans.

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

N,N-dimethyl-p-toluidine; [1] N,N-dimethyl-m-toluidine; [2] 2B Possibly carcinogenic to humans.

N,N-dimethyl-o-toluidine [3] (CAS 99-97-8)

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

Specific target organ toxicity single exposure

May cause respiratory irritation.

Specific target organ toxicity -

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

repeated exposure

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

Mixture versus substance

information

**Aspiration hazard** 

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)

> methacrylic acid; 2-methylpropenoic acid 0.93 methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 1.38

2-methylpropenoate

**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 The product contains volatile organic compounds which have a photochemical ozone creation

potential.

#### 12.8. Additional information

## Estonia Dangerous substances in soil Data

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

zinc oxide (CAS 1314-13-2)

Zinc (Zn) 1000 MG/KG Zinc (Zn) 200 MG/KG Zinc (Zn) 500 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 code**The 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 precautions**Dispose 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

name

14.3. Transport hazard class(es)

Subsidiary risk Label(s) 3
Hazard No. (ADR) 30
Tunnel restriction code D/E
14.4. Packing group III
14.5. Environmental hazards No.

14.5. Environmental hazarus

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

name

14.3. Transport hazard class(es)

Class 3
Subsidiary risk Label(s) 3
14.4. Packing group III
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 III
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

name

14.3. Transport hazard class(es)

Class 3
Subsidiary risk 
14.4. Packing group III

14.5. Environmental hazards No.
ERG Code 3L

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

for user

Other information

Passenger and cargo Allowed with restrictions.

aircraft

Cargo aircraft only Allowed with restrictions.

**IMDG** 

**14.1. UN number** UN1133

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

name

14.3. Transport hazard class(es)

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

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

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

for user

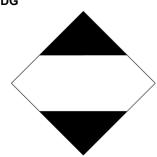
14.7. Maritime transport in bulk Not established.

according to IMO instruments

## ADN; ADR; RID







## **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

Not listed.

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 zinc oxide (CAS 1314-13-2)

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

UFI:

Austria: NV90-2065-S00P-W143
Belgium: NV90-2065-S00P-W143
Bulgaria: NV90-2065-S00P-W143
Croatia: NV90-2065-S00P-W143
Cyprus: NV90-2065-S00P-W143
Czech Republic: NV90-2065-S00P-W143

Denmark: NV90-2065-S00P-W143 Estonia: NV90-2065-S00P-W143 EU: NV90-2065-S00P-W143 Finland: NV90-2065-S00P-W143 France: NV90-2065-S00P-W143 Germany: NV90-2065-S00P-W143 Greece: NV90-2065-S00P-W143 Hungary: NV90-2065-S00P-W143 Iceland: NV90-2065-S00P-W143 Ireland: NV90-2065-S00P-W143 Italy: NV90-2065-S00P-W143 Latvia: NV90-2065-S00P-W143 Lithuania: NV90-2065-S00P-W143 Luxembourg: NV90-2065-S00P-W143 Malta: NV90-2065-S00P-W143 Netherlands: NV90-2065-S00P-W143 Norway: NV90-2065-S00P-W143 Poland: NV90-2065-S00P-W143 Portugal: NV90-2065-S00P-W143 Romania: NV90-2065-S00P-W143 Slovakia: NV90-2065-S00P-W143 Slovenia: NV90-2065-S00P-W143

## **Authorizations**

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

Spain: NV90-2065-S00P-W143 Sweden: NV90-2065-S00P-W143

## 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

methacrylic acid; 2-methylpropenoic acid (CAS 79-41-4) 75 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

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® MA832 Adhesive

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

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.

Contains a substance which is included on the TRGS 905 list of carcinogenic, germ cell mutagenic and reproductive toxic substances

zinc oxide (CAS 1314-13-2)

Anorganische Faserstäube, soweit nicht erwähnt (ausgenommen

Gipsfasernund Wollastonitfasern)

France regulations

France INRS Table of Occupational Diseases

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

Affections provoquées par le méthacrylate de méthyle 82

**Product registration number** 

UFI: NV90-2065-S00P-W143 **Austria** UFI: NV90-2065-S00P-W143 Belgium Czech Republic UFI: NV90-2065-S00P-W143 **Denmark** UFI: NV90-2065-S00P-W143 **European Union** UFI: NV90-2065-S00P-W143 **Finland** UFI: NV90-2065-S00P-W143 **France** UFI: NV90-2065-S00P-W143 Germany UFI: NV90-2065-S00P-W143 UFI: NV90-2065-S00P-W143 Greece UFI: NV90-2065-S00P-W143 Hungary UFI: NV90-2065-S00P-W143 Italy UFI: NV90-2065-S00P-W143 **Netherlands** UFI: NV90-2065-S00P-W143 Norway **Poland** UFI: NV90-2065-S00P-W143 **Portugal** UFI: NV90-2065-S00P-W143 Slovakia UFI: NV90-2065-S00P-W143 Slovenia UFI: NV90-2065-S00P-W143 UFI: NV90-2065-S00P-W143 Spain UFI: NV90-2065-S00P-W143 Sweden UFI: NV90-2065-S00P-W143 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

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 Not available.

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation

methods and test data, if available.

Material name: PLEXUS® MA832 Adhesive

SDS FII 24 / 25

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

H225 Highly flammable liquid and vapor.

H301 Toxic if swallowed.

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.

H330 Fatal if inhaled. H331 Toxic if inhaled.

None.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

#### **Revision information**

## **Training information**

Disclaimer

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® MA832 Adhesive

0533 Version #: 05 Revision date: 08-03-2023 Issue date: 07-12-2019 25 / 25

SDS FIL