

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation of the mixture PLEXUS® MA8105 Adhesive
Registration number -
Synonyms None.
SKU# 81052
Issue date 11-25-2021
Version number 01

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

Supplier

Company name ITW Performance Polymers
Address 30 Endicott Street
Danvers, MA 01923
US
Division
Telephone Customer Service 978-777-1100
e-mail Not available.
Contact person Not available.

1.4. Emergency telephone number Chemtrec 800-424-9300
International 703-527-3887

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

Acute toxicity, inhalation Category 4 H332 - Harmful if inhaled.
Skin corrosion/irritation Category 1A H314 - Causes severe skin burns and eye damage.
Serious eye damage/eye irritation Category 1 H318 - Causes serious eye damage.
Skin sensitization Category 1 H317 - May cause an allergic skin reaction.

Environmental hazards

Hazardous to the aquatic environment, long-term aquatic hazard Category 2 H411 - Toxic to aquatic life with long lasting effects.

Hazard summary May be ignited by heat, sparks or flames. Causes severe skin burns and eye damage. Harmful if inhaled. May cause an allergic skin reaction. Dangerous for the environment if discharged into watercourses. Occupational exposure to the substance or mixture may cause adverse health effects.

2.2. Label elements

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

Contains: MALEIC ACID, METHACRYLIC ACID, Methyl Methacrylate

Hazard pictograms



Signal word

Danger

Hazard statements

H225	Highly flammable liquid and vapor.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H411	Toxic 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.
P260	Do not breathe 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.

Response

P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
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.
P391	Collect spillage.

Storage

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.
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Supplemental label information

35% of the mixture consists of component(s) of unknown acute oral toxicity. 74,85% of the mixture consists of component(s) of unknown acute dermal toxicity. 81,76% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 80,43% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

2.3. Other hazards

This mixture does not meet vPvB / PBT criteria of Regulation (EC) No 1907/2006, Annex XIII.

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	30 - < 40	80-62-6 201-297-1	-	607-035-00-6	#
Classification:	Flam. Liq. 2;H225, Skin Irrit. 2;H315, Skin Sens. 1;H317, Acute Tox. 4;H332, STOT SE 3;H335				D
METHACRYLIC ACID	5 - < 10	79-41-4 201-204-4	-	607-088-00-5	
Classification:	Acute Tox. 4;H302, Acute Tox. 4;H312, Skin Corr. 1A;H314, Eye Dam. 1;H318, Acute Tox. 3;H331, STOT SE 3;H335				D

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
DODECYL METHACRYLATE	3 - < 5	142-90-5 205-570-6	-	607-247-00-9	
Classification:	Skin Irrit. 2;H315, Eye Irrit. 2;H319, STOT SE 3;H335, Aquatic Acute 1;H400, Aquatic Chronic 1;H410				
HEXADECYL METHACRYLATE	1 - < 3	2495-27-4 219-672-3	-	607-134-00-4	
Classification:	Skin Irrit. 2;H315, Eye Irrit. 2;H319, STOT SE 3;H335				
MALEIC ACID	1 - < 3	110-16-7 203-742-5	-	607-095-00-3	
Classification:	Acute Tox. 4;H302, Acute Tox. 4;H312, Skin Irrit. 2;H315, Skin Sens. 1;H317, Eye Irrit. 2;H319, STOT SE 3;H335, Aquatic Chronic 2;H411				
1,4-benzoquinone	< 0,2	106-51-4 203-405-2	-	606-013-00-3	
Classification:	Acute Tox. 3;H301, Skin Irrit. 2;H315, Eye Irrit. 2;H319, Acute Tox. 3;H331, STOT SE 3;H335, Aquatic Acute 1;H400(M=10), Aquatic Chronic 1;H410(M=100)				
Other components below reportable levels	40 - < 50				

List of abbreviations and symbols that may be used above

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

M: M-factor

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

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.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. 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. Call a physician or poison control center immediately.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
4.2. Most important symptoms and effects, both acute and delayed	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.
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. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards	Highly flammable liquid and vapor.
5.1. Extinguishing media	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
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**

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

For emergency responders

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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

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

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

Never return spills to original containers for re-use.

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist/vapors. Do not get in eyes, on skin, or on 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

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).

7.3. Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters**Occupational exposure limits****Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001**

Components	Type	Value
1,4-benzoquinone (CAS 106-51-4)	Ceiling	0,4 mg/m ³
		0,1 ppm
	MAK	0,4 mg/m ³ 0,1 ppm
METHACRYLIC ACID (CAS 79-41-4)	MAK	70 mg/m ³ 20 ppm
Methyl Methacrylate (CAS 80-62-6)	Ceiling	420 mg/m ³
		100 ppm
	MAK	210 mg/m ³ 50 ppm

Belgium. Exposure Limit Values

Components	Type	Value	Form
1,4-benzoquinone (CAS 106-51-4)	TWA	0,45 mg/m3	
		0,1 ppm	
METHACRYLIC ACID (CAS 79-41-4)	TWA	71 mg/m3	
		20 ppm	
Methyl Methacrylate (CAS 80-62-6)	STEL	416 mg/m3	
	TWA	100 ppm	
Paraffin Wax (CAS 8002-74-2)	TWA	208 mg/m3	
		50 ppm	
		2 mg/m3	Fume.

Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work

Components	Type	Value	
1,4-benzoquinone (CAS 106-51-4)	TWA	0,4 mg/m3	
METHACRYLIC ACID (CAS 79-41-4)	TWA	70 mg/m3	
Methyl Methacrylate (CAS 80-62-6)	STEL	100 ppm	
	TWA	50 ppm	
POLY(METHYL METHACRYLATE) (CAS 9011-14-7)	TWA	20 mg/m3	

Croatia. Dangerous Substance Exposure Limit Values in the Workplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09

Components	Type	Value	Form
METHACRYLIC ACID (CAS 79-41-4)	MAC	72 mg/m3	
		20 ppm	
	STEL	143 mg/m3	
Methyl Methacrylate (CAS 80-62-6)	MAC	40 ppm	
	STEL	50 ppm	
Paraffin Wax (CAS 8002-74-2)	MAC	100 ppm	
	STEL	2 mg/m3	Fume.
		6 mg/m3	Fume.

Czech Republic. OELs. Government Decree 361

Components	Type	Value	
1,4-benzoquinone (CAS 106-51-4)	Ceiling	0,8 mg/m3	
	TWA	0,4 mg/m3	
Methyl Methacrylate (CAS 80-62-6)	Ceiling	150 mg/m3	
	TWA	50 mg/m3	

Denmark. Exposure Limit Values

Components	Type	Value	Form
1,4-benzoquinone (CAS 106-51-4)	TLV	0,4 mg/m3	
		0,1 ppm	
METHACRYLIC ACID (CAS 79-41-4)	TLV	70 mg/m3	
		20 ppm	
Methyl Methacrylate (CAS 80-62-6)	TLV	102 mg/m3	

Denmark. Exposure Limit Values

Components	Type	Value	Form
Paraffin Wax (CAS 8002-74-2)	TLV	25 ppm 2 mg/m3	Fume.

Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001)

Components	Type	Value	Form
1,4-benzoquinone (CAS 106-51-4)	STEL	1,3 mg/m3	
		0,3 ppm	
	TWA	0,4 mg/m3	
		0,1 ppm	
METHACRYLIC ACID (CAS 79-41-4)	STEL	100 mg/m3	
		30 ppm	
	TWA	70 mg/m3	
		20 ppm	
Methyl Methacrylate (CAS 80-62-6)	STEL	100 ppm	
		50 ppm	
Paraffin Wax (CAS 8002-74-2)	TWA	2 mg/m3	Vapor.

Finland. Workplace Exposure Limits

Components	Type	Value	Form
1,4-benzoquinone (CAS 106-51-4)	STEL	1,3 mg/m3	
		0,3 ppm	
	TWA	0,45 mg/m3	
		0,1 ppm	
METHACRYLIC ACID (CAS 79-41-4)	TWA	71 mg/m3	
		20 ppm	
Methyl Methacrylate (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.

France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984

Components	Type	Value	Form
1,4-benzoquinone (CAS 106-51-4)	VLE	1,5 mg/m3	
Regulatory status:	Indicative limit (VL)		
		0,3 ppm	
Regulatory status:	Indicative limit (VL)		
	VME	0,4 mg/m3	
Regulatory status:	Indicative limit (VL)		
		0,1 ppm	
Regulatory status:	Indicative limit (VL)		
METHACRYLIC ACID (CAS 79-41-4)	VME	70 mg/m3	
Regulatory status:	Indicative limit (VL)		
		20 ppm	
Regulatory status:	Indicative limit (VL)		

France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984

Components	Type	Value	Form
Methyl Methacrylate (CAS 80-62-6)	VLE	410 mg/m3	
Regulatory status:	Regulatory binding (VRC)		
		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)		

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

Components	Type	Value
METHACRYLIC ACID (CAS 79-41-4)	TWA	180 mg/m3
		50 ppm
Methyl Methacrylate (CAS 80-62-6)	TWA	210 mg/m3
		50 ppm

Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace

Components	Type	Value
METHACRYLIC ACID (CAS 79-41-4)	AGW	180 mg/m3
		50 ppm
Methyl Methacrylate (CAS 80-62-6)	AGW	210 mg/m3
		50 ppm

Greece. OELs (Decree No. 90/1999, as amended)

Components	Type	Value	Form
1,4-benzoquinone (CAS 106-51-4)	STEL	1,5 mg/m3	
		0,3 ppm	
	TWA	0,4 mg/m3	
		0,1 ppm	
METHACRYLIC ACID (CAS 79-41-4)	STEL	140 mg/m3	
		40 ppm	
	TWA	70 mg/m3	
		20 ppm	
Methyl Methacrylate (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.

Hungary. OELs. Joint Decree on Chemical Safety of Workplaces

Components	Type	Value
Methyl Methacrylate (CAS 80-62-6)	STEL	415 mg/m3
	TWA	208 mg/m3

Iceland. OELs. Regulation 154/1999 on occupational exposure limits

Components	Type	Value	Form
1,4-benzoquinone (CAS 106-51-4)	TWA	0,4 mg/m3	
		0,1 ppm	
METHACRYLIC ACID (CAS 79-41-4)	TWA	70 mg/m3	
		20 ppm	
Methyl Methacrylate (CAS 80-62-6)	STEL	100 ppm	
	TWA	50 ppm	
Paraffin Wax (CAS 8002-74-2)	TWA	2 mg/m3	Fume.

Ireland. Occupational Exposure Limits

Components	Type	Value	Form
1,4-benzoquinone (CAS 106-51-4)	TWA	0,4 mg/m3	
		0,1 ppm	
METHACRYLIC ACID (CAS 79-41-4)	STEL	140 mg/m3	
		40 ppm	
	TWA	70 mg/m3	
Methyl Methacrylate (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.

Italy. Occupational Exposure Limits

Components	Type	Value	Form
1,4-benzoquinone (CAS 106-51-4)	TWA	0,1 ppm	
METHACRYLIC ACID (CAS 79-41-4)	TWA	20 ppm	
Methyl Methacrylate (CAS 80-62-6)	STEL	100 ppm	
	TWA	50 ppm	
Paraffin Wax (CAS 8002-74-2)	TWA	2 mg/m3	Fume.

Latvia. OELs. Occupational exposure limit values of chemical substances in work environment

Components	Type	Value
1,4-benzoquinone (CAS 106-51-4)	TWA	0,05 mg/m3
METHACRYLIC ACID (CAS 79-41-4)	TWA	10 mg/m3
Methyl Methacrylate (CAS 80-62-6)	TWA	10 mg/m3

Lithuania. OELs. Limit Values for Chemical Substances, General Requirements

Components	Type	Value
1,4-benzoquinone (CAS 106-51-4)	STEL	1,3 mg/m3
		0,3 ppm
	TWA	0,4 mg/m3
METHACRYLIC ACID (CAS 79-41-4)	STEL	0,1 ppm
		100 mg/m3
		30 ppm

Lithuania. OELs. Limit Values for Chemical Substances, General Requirements

Components	Type	Value
Methyl Methacrylate (CAS 80-62-6)	TWA	70 mg/m3
		20 ppm
	STEL	416 mg/m3
		100 ppm
TWA	208 mg/m3	
	50 ppm	

Luxembourg. Binding Occupational exposure limit values (Annex I), Memorial A

Components	Type	Value
Methyl Methacrylate (CAS 80-62-6)	STEL	100 ppm
	TWA	50 ppm

Malta. OELs. Occupational Exposure Limit Values (L.N. 227. of Occupational Health and Safety Authority Act (CAP. 424), Schedules I and V)

Components	Type	Value
Methyl Methacrylate (CAS 80-62-6)	STEL	100 ppm
	TWA	50 ppm

Netherlands. OELs (binding)

Components	Type	Value
Methyl Methacrylate (CAS 80-62-6)	STEL	410 mg/m3
	TWA	205 mg/m3

Norway. Administrative Norms for Contaminants in the Workplace

Components	Type	Value	Form
1,4-benzoquinone (CAS 106-51-4)	TLV	0,4 mg/m3	
		0,1 ppm	
METHACRYLIC ACID (CAS 79-41-4)	TLV	70 mg/m3	
		20 ppm	
Methyl Methacrylate (CAS 80-62-6)	STEL	400 mg/m3	
		100 ppm	
		100 mg/m3	
Paraffin Wax (CAS 8002-74-2)	TLV	25 ppm	
		2 mg/m3	Fume.

Poland. Ordinance of the Minister of Labour and Social Policy on 6 June 2014 on the maximum permissible concentrations and intensities of harmful health factors in the work environment, Journal of Laws 2014, item 817

Components	Type	Value	Form
1,4-benzoquinone (CAS 106-51-4)	STEL	0,4 mg/m3	
	TWA	0,1 mg/m3	
Methyl Methacrylate (CAS 80-62-6)	STEL	300 mg/m3	
	TWA	100 mg/m3	
Paraffin Wax (CAS 8002-74-2)	TWA	2 mg/m3	Inhalable fraction.

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

Components	Type	Value	Form
1,4-benzoquinone (CAS 106-51-4)	TWA	0,1 ppm	

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

Components	Type	Value	Form
METHACRYLIC ACID (CAS 79-41-4)	TWA	20 ppm	
Methyl Methacrylate (CAS 80-62-6)	STEL	100 ppm	
	TWA	50 ppm	
Paraffin Wax (CAS 8002-74-2)	TWA	2 mg/m3	Fume.

Romania. OELs. Protection of workers from exposure to chemical agents at the workplace

Components	Type	Value	Form
1,4-benzoquinone (CAS 106-51-4)	STEL	0,4 mg/m3	
	TWA	0,3 mg/m3	
METHACRYLIC ACID (CAS 79-41-4)	STEL	45 mg/m3	
	TWA	13 ppm	
		30 mg/m3	
		8,5 ppm	
Methyl Methacrylate (CAS 80-62-6)	STEL	410 mg/m3	
	TWA	100 ppm	
		205 mg/m3	
		50 ppm	
Paraffin Wax (CAS 8002-74-2)	STEL	6 mg/m3	Fume.
	TWA	2 mg/m3	Fume.

Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents

Components	Type	Value	Form
1,4-benzoquinone (CAS 106-51-4)	TWA	0,4 mg/m3	
		0,1 ppm	
Methyl Methacrylate (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.

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

Components	Type	Value	Form
METHACRYLIC ACID (CAS 79-41-4)	TWA	180 mg/m3	
		50 ppm	
Methyl Methacrylate (CAS 80-62-6)	TWA	210 mg/m3	
		50 ppm	

Spain. Occupational Exposure Limits

Components	Type	Value	Form
1,4-benzoquinone (CAS 106-51-4)	TWA	0,45 mg/m3	
		0,1 ppm	
METHACRYLIC ACID (CAS 79-41-4)	TWA	72 mg/m3	
		20 ppm	
Methyl Methacrylate (CAS 80-62-6)	STEL	100 ppm	

Spain. Occupational Exposure Limits Components

Components	Type	Value	Form
	TWA	50 ppm	
Paraffin Wax (CAS 8002-74-2)	TWA	2 mg/m3	Fume.

Sweden. OELs. Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2015:7)

Components	Type	Value	Form
1,4-benzoquinone (CAS 106-51-4)	STEL	1,3 mg/m3	
		0,3 ppm	
	TWA	0,4 mg/m3	
		0,1 ppm	
METHACRYLIC ACID (CAS 79-41-4)	STEL	100 mg/m3	
		30 ppm	
	TWA	70 mg/m3	
		20 ppm	
Methyl Methacrylate (CAS 80-62-6)	Ceiling	400 mg/m3	
		100 ppm	
	TWA	200 mg/m3	
		50 ppm	

Switzerland. SUVA Grenzwerte am Arbeitsplatz Components

Components	Type	Value	Form
1,4-benzoquinone (CAS 106-51-4)	STEL	0,4 mg/m3	
		0,1 ppm	
	TWA	0,4 mg/m3	
		0,1 ppm	
METHACRYLIC ACID (CAS 79-41-4)	STEL	360 mg/m3	
		100 ppm	
	TWA	180 mg/m3	
		50 ppm	
Methyl Methacrylate (CAS 80-62-6)	STEL	420 mg/m3	
		100 ppm	
	TWA	210 mg/m3	
		50 ppm	
Paraffin Wax (CAS 8002-74-2)	TWA	2 mg/m3	Respirable fume.

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value	Form
METHACRYLIC ACID (CAS 79-41-4)	STEL	143 mg/m3	
		40 ppm	
	TWA	72 mg/m3	
		20 ppm	
Methyl Methacrylate (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.

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value	Form
	TWA	2 mg/m ³	Fume.

EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU

Components	Type	Value
Methyl Methacrylate (CAS 80-62-6)	STEL	100 ppm
	TWA	50 ppm

Biological limit values No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures Follow standard monitoring procedures.

Derived no effect levels (DNELs) Not available.

Predicted no effect concentrations (PNECs) Not available.

Exposure guidelines

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 (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. Eye wash facilities and emergency shower must be available when handling this product.

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 Chemical respirator with organic vapor cartridge and full facepiece.

Skin protection

- Hand protection Wear appropriate chemical resistant gloves.

- Other Wear appropriate chemical resistant clothing.

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

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****Appearance**

Physical state Liquid.

Form Liquid.

Color Not available.

Odor Not available.

Odor threshold Not available.

pH Not available.

Melting point/freezing point -54,4 °F (-48 °C) estimated

Initial boiling point and boiling range 212,9 °F (100,5 °C) estimated

Flash point	50,0 °F (10,0 °C) estimated
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	2,1 % estimated
Flammability limit - upper (%)	12,5 % estimated
Vapor pressure	37,7 hPa estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	154 °F (67,78 °C) estimated
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
9.2. Other information	
Density	0,99 g/cm3 estimated
Specific gravity	0,99 estimated

SECTION 10: Stability and reactivity

10.1. Reactivity	The 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 decomposition temperature. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
10.5. Incompatible materials	Strong oxidizing agents. Nitrates. Peroxides.
10.6. Hazardous decomposition products	No hazardous decomposition products are known.

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 severe skin burns. May cause an allergic skin reaction.
Eye contact	Causes serious eye damage.
Ingestion	Causes digestive tract burns.
Symptoms	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

11.1. Information on toxicological effects

Acute toxicity Harmful if inhaled.

Components	Species	Test Results
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DODECYL METHACRYLATE (CAS 142-90-5)

Acute

Oral

LD50

Rat

> 5 g/kg

Components	Species	Test Results
MALEIC ACID (CAS 110-16-7)		
Acute		
Dermal		
LD50	Rabbit	1560 mg/kg
METHACRYLIC ACID (CAS 79-41-4)		
Acute		
Inhalation		
LC50	Rat	7,1 mg/l, 4 Hours
Methyl Methacrylate (CAS 80-62-6)		
Acute		
Inhalation		
LC50	Mouse	18,5 mg/l, 2 Hours
Oral		
LD50	Rat	7800 mg/kg
Skin corrosion/irritation	Causes severe skin burns and eye damage.	
Serious eye damage/eye irritation	Causes serious eye damage.	
Respiratory sensitization	Due to partial or complete lack of data the classification is not possible.	
Skin sensitization	May cause an allergic skin reaction.	
Germ cell mutagenicity	Due to partial or complete lack of data the classification is not possible.	
Carcinogenicity	Due to partial or complete lack of data the classification is not possible.	
Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)		
Not listed.		
IARC Monographs. Overall Evaluation of Carcinogenicity		
1,4-benzoquinone (CAS 106-51-4)	3 Not classifiable as to carcinogenicity to humans.	
Methyl Methacrylate (CAS 80-62-6)	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	Due to partial or complete lack of data the classification is not possible.	
Aspiration hazard	Due to partial or complete lack of data the classification is not possible.	
Mixture versus substance information	No information available.	
Other information	Not available.	

SECTION 12: Ecological information

12.1. Toxicity	Toxic 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-benzoquinone	0,2	
MALEIC ACID	-0,48	
METHACRYLIC ACID	0,93	
Methyl Methacrylate	1,38	
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 meet vPvB / PBT criteria of Regulation (EC) No 1907/2006, Annex XIII.	
12.6. 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.	

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	UN2924
14.2. UN proper shipping name	FLAMMABLE LIQUID, CORROSIVE, N.O.S.
14.3. Transport hazard class(es)	
Class	3
Subsidiary risk	8
Label(s)	3 +8
Hazard No. (ADR)	338
Tunnel restriction code	D/E
14.4. Packing group	II
14.5. Environmental hazards	No.
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

RID

14.1. UN number	UN2924
14.2. UN proper shipping name	FLAMMABLE LIQUID, CORROSIVE, N.O.S.
14.3. Transport hazard class(es)	
Class	3
Subsidiary risk	8
Label(s)	3+8
14.4. Packing group	II
14.5. Environmental hazards	No.
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

ADN

14.1. UN number	UN2924
14.2. UN proper shipping name	FLAMMABLE LIQUID, CORROSIVE, N.O.S.
14.3. Transport hazard class(es)	
Class	3
Subsidiary risk	8
Label(s)	3+8
14.4. Packing group	II
14.5. Environmental hazards	No.
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

IATA

14.1. UN number	UN2924
14.2. UN proper shipping name	Flammable liquid, corrosive, n.o.s. (Methyl Methacrylate, METHACRYLIC ACID)
14.3. Transport hazard class(es)	
Class	3
Subsidiary risk	8
14.4. Packing group	II
14.5. Environmental hazards	No.

ERG Code	3CH
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.

IMDG

14.1. UN number	UN2924
14.2. UN proper shipping name	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Methyl Methacrylate, METHACRYLIC ACID)
14.3. Transport hazard class(es)	
Class	3
Subsidiary risk	8
14.4. Packing group	II
14.5. Environmental hazards	
Marine pollutant	No.
EmS	F-E, S-C
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
14.7. Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code	Not established.

ADN; ADR; IATA; IMDG; 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 (EC) No. 850/2004 On persistent organic pollutants, Annex I 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

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

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

Methyl Methacrylate (CAS 80-62-6)

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

1,4-benzoquinone (CAS 106-51-4)
DODECYL METHACRYLATE (CAS 142-90-5)
Methyl Methacrylate (CAS 80-62-6)

Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

National regulations

Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work, as amended. Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

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: European 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: Intermediate Bulk Container.
IMDG: International Maritime Dangerous Goods.
MAC: Maximum Allowed Concentration.
MARPOL: International Convention for the Prevention of Pollution from Ships.
PBT: Persistent, bioaccumulative, 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.

Full text of any H-statements not written out in full under Sections 2 to 15

H225 Highly flammable liquid and vapor.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
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.
H331 Toxic if inhaled.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.

Revision information

None.

Training information

Follow training instructions when handling this material.

Disclaimer

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.