SAFETY DATA SHEET

1. Identification

1. Identification				
Product identifier	PLEXUS® MA8110/8120	Adhesive		
Other means of identification				
SKU#	81102			
Recommended use	Not available.			
Recommended restrictions	None known.			
Manufacturer/Importer/Supplie	r/Distributor information			
Manufacturer				
Company name	ITW Performance Polymers	S		
Address	30 Endicott Street			
	Danvers, MA 01923			
	United States	070 777 4400		
Telephone		Customer Service 978-777-1100		
Website E-mail	www.itwperformancepolym Not available.	lers.com		
Contact person	EHS Department			
Emergency phone number	Chemtrec	800-424-9300		
	International	703-527-3887		
2. Hazard(s) identification	n			
Physical hazards	Flammable liquids		Category 2	
Health hazards	Acute toxicity, inhalation		Category 4	
	Skin corrosion/irritation		Category 2	
	Serious eye damage/eye ir	ritation	Category 2	
	Sensitization, skin	Induon	Category 2	
Environmental hazards	Not classified.		Category	
OSHA defined hazards	Not classified.			
Label elements				
Signal word	Danger			
Hazard statement	0		in irritation. May cause an allergic skin reaction.	
Precautionary statement	• ····· · · · · · · · · · · · · · · · ·			
Prevention	Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist/vapors. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.			
Response	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. Call a POISON CENTER or doctor/physician if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use appropriate media to extinguish.			
Storage	Store in a well-ventilated place. Keep cool.			
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.			

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion. None.

Supplemental information

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Methyl Methacrylate		80-62-6	40 - 60
Styrene/butadiene Copolymer		9003-55-8	10 - 20
DODECYL METHACRYLATE		142-90-5	2.5 - 10
METHACRYLIC ACID		79-41-4	2.5 - 10
HEXADECYL METHACRYLATE		2495-27-4	1 - 2.5
MALEIC ACID		110-16-7	1 - 2.5
Paraffin Wax		8002-74-2	1 - 2.5
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-		128-37-0	1 - 2.5
Other components below reportable levels			20 - 40

4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a poison center or doctor/physician if you feel unwell.	
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.	
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 if irritation develops and persists.	
Ingestion	Rinse mouth. Get medical attention if symptoms occur.	
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis Rash.	
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.	
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.	

5. Fire-fighting measures

0 0		
Suitable extinguishing media	Water fog. Foam. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth ma be used for small fires only.	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.	
Specific hazards arising from the chemical	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.	
Fire fighting equipment/instructions	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.	
General fire hazards	Highly flammable liquid and vapor.	

6. Accidental release measures

6. Accidental release measures		
Personal precautions, protective equipment and emergency procedures	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. Avoid breathing mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.	
Methods and materials 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.	
	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. For waste disposal, see section 13 of the SDS.	
Environmental precautions	Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.	
7. Handling and storage		
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. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid breathing mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.	
	For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National Fire Protection Association (NFPA) 70, "National Electrical Code".	
Conditions for safe storage, including any incompatibilities	Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. 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).	

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Components	Туре	Value	
Methyl Methacrylate (CAS 80-62-6)	PEL	410 mg/m3	
		100 ppm	

US. ACGIH Threshold	Limit Values (TLV)
•	

US. ACGIH Threshold Limit Components	Type	Valu	9	Form
METHACRYLIC ACID (CAS 79-41-4)	TWA	20 pr	om	
Methyl Methacrylate (CAS 80-62-6)	STEL	100 p	pm	
	TWA	50 pr	om	
Paraffin Wax (CAS 8002-74-2)	TWA	2 mg	/m3	Fume.
Phenol, 2,6-bis(1,1-dimethylethyl)-4- methyl- (CAS 128-37-0)	TWA	2 mg	/m3	Inhalable fraction and vapor.
NIOSH. Immediately Danger Components	ous to Life or Health (IDLH) \ Type	Values, as amended Value	9	
Methyl Methacrylate (CAS 80-62-6)	IDLH	1.7 %	, D	
,		1000	ppm	
US. NIOSH: Pocket Guide to Components	o Chemical Hazards Recomm Type	ended Exposure Limits (Ri Value		Form
METHACRYLIC ACID (CAS	TWA	70 m	g/m3	
79-41-4)			0	
		20 pp		
Methyl Methacrylate (CAS 80-62-6)	TWA	410 r	ng/m3	
		100 p	pm	
Paraffin Wax (CAS 8002-74-2)	TWA	2 mg	/m3	Fume.
Phenol, 2,6-bis(1,1-dimethylethyl)-4- methyl- (CAS 128-37-0)	TWA	10 m	g/m3	
logical limit values	No biological exposure limits	noted for the ingredient(s).		
oosure guidelines				
US - California OELs: Skin o	designation			
METHACRYLIC ACID (C US - Tennessee OELs: Skin	,	Can be absorbed through	the skin.	
METHACRYLIC ACID (C US NIOSH Pocket Guide to	AS 79-41-4) Chemical Hazards: Skin desi	Can be absorbed through gnation	the skin.	
METHACRYLIC ACID (C	AS 79-41-4)	Can be absorbed through	the skin.	
propriate engineering htrols	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 recommende exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.			
ividual protection measures, Eye/face protection	such as personal protective Wear safety glasses with side		shield is recom	mended.
Skin protection Hand protection	Wear appropriate chemical resistant gloves.			
Other	Wear appropriate chemical resistant clothing.			
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.			
Thermal hazards	Wear appropriate thermal pro	•	ssary.	
neral hygiene nsiderations	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 be allowed out of the workplace.			

9. Physical and chemical properties

9. Physical and chemical properties		
Paste.		
Liquid.		
Paste.		
Tan. or Off-white		
Not available.		
Not available.		
5		
-54.4 °F (-48 °C) estimated		
212.9 °F (100.5 °C) estimated		
50.0 °F (10.0 °C) estimated		
Not available.		
Not applicable.		
losive limits		
2.1 % estimated		
8.2 % estimated		
51.33 hPa estimated		
Not available.		
Not available.		
Not available.		
Not available.		
815 °F (435 °C) estimated		
Not available.		
Not available.		
0.94 g/cm3 estimated		
Not explosive.		
Flammable IB estimated		
Not oxidizing.		
0.94 estimated		
<10 g/l		

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents. Nitrates. Peroxides.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure		
Inhalation	Harmful if inhaled.	
Skin contact	Causes skin irritation. May cause an allergic skin reaction.	
Eye contact	Causes serious eye irritation.	
Ingestion Expected to be a low ingestion hazard.		

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

Information on toxicological effects

Acute toxicity	Harmful if inhaled.		
Components	Species Test Results		
DODECYL METHACRYLATE (C/	AS 142-90-5)		
Acute			
Dermal			
LD50	Rabbit > 3 g/kg		
Oral			
LD50	Rat	> 5 g/kg	
MALEIC ACID (CAS 110-16-7)			
<u>Acute</u>			
Dermal			
LD50	Rabbit	1560 mg/kg	
Oral			
LD50	Rat	708 mg/kg	
METHACRYLIC ACID (CAS 79-4	1-4)		
Acute			
Dermal			
LD50	Rabbit	500 mg/kg	
Inhalation			
LC50	Rat	7.1 mg/l, 4 Hours	
Oral			
LD50	Rat	1060 mg/kg	
Methyl Methacrylate (CAS 80-62-	6)		
Acute			
Oral	- /		
LD50	Rat	7800 mg/kg	
Phenol, 2,6-bis(1,1-dimethylethyl))-4-methyl- (CAS 128-37-0)		
Acute			
Dermal	Det		
LD50	Rat	> 2000 mg/kg	
Oral		222 "	
LD50	Rat	890 mg/kg	
Skin corrosion/irritation	Causes skin irritation.		
Serious eye damage/eye irritation	Causes serious eye irritation		
Respiratory or skin sensitizatio	n		
ACGIH sensitization			
Methyl methacrylate (CA	NS 80-62-6)	Dermal sensitization	
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	May cause an allergic skin re	eaction.	
Germ cell mutagenicity	No data available to indicate mutagenic or genotoxic.	product or any components present at greater than 0.1% are	
Carcinogenicity	Not classifiable as to carcino	genicity to humans.	
IARC Monographs. Overall	Evaluation of Carcinogenicity	/	
Methyl Methacrylate (CA Phenol, 2,6-bis(1,1-dime (CAS 128-37-0)	AS 80-62-6) hthylethyl)-4-methyl-	3 Not classifiable as to carcinogenicity to humans. 3 Not classifiable as to carcinogenicity to humans.	
Styrene/butadiene Copo	lymer (CAS 9003-55-8)	3 Not classifiable as to carcinogenicity to humans.	
Material name: PLEXUS® MA8110/8	3120 Adhesive	SDS U	

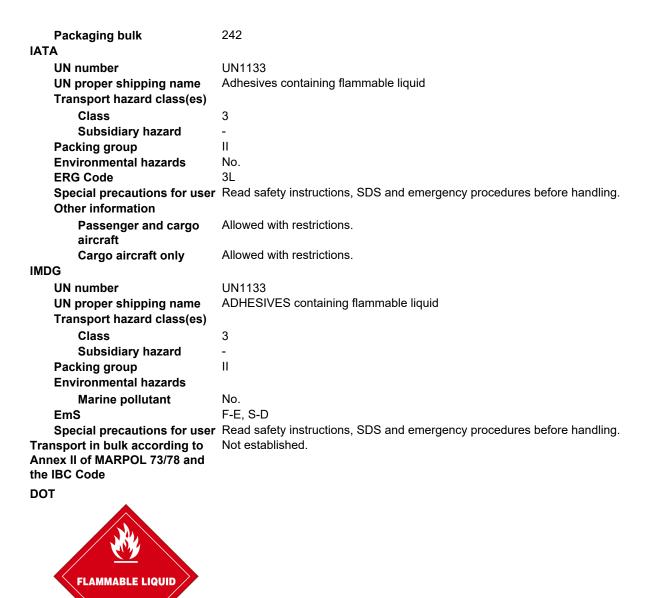
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) Not listed. US. National Toxicology Program (NTP) Report on Carcinogens Not listed.						
					Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
					Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure						
Aspiration hazard	Not an aspiration hazard.					
Chronic effects	Prolonged inhalation may be harmful.					
12. Ecological information						
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.					
Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.					
Bioaccumulative potential						
Partition coefficient n-octar						
DODECYL METHACRYLATE						
HEXADECYL METHACRYLA						
MALEIC ACID	-0.48					
METHACRYLIC ACID	0.93					
Methyl Methacrylate	1.38					
Phenol, 2,6-bis(1,1-dimethyle						
Mobility in soil	No data available.					
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.					
13. Disposal considerations						
Disposal instructions	Dispose of this material and its container to hazardous or special waste collection point. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose of contents/container in accordance with local/regional/national/international regulations.					
l ocal disposal regulations	Dispose in accordance with all applicable regulations					

Local disposal regulations	Dispose in accordance with all applicable regulations.		
Hazardous waste code	D001: Waste Flammable material with a flash point <140 F The waste code should be assigned in discussion between the user, the producer and the waste disposal company.		
Waste from residues / unused products	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.		

14. Transport information

DOT

JU	1	
	UN number	UN1133
	UN proper shipping name	Adhesives, containing a flammable liquid
	Transport hazard class(es)	
	Class	3
	Subsidiary hazard	-
	Label(s)	3
	Packing group	II
	Environmental hazards	
	Marine pollutant	No.
	Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
	Special provisions	149, B52, IB2, T4, TP1, TP8
	Packaging exceptions	150
	Packaging non bulk	173







15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

Methyl Methacrylate (CAS 80-62-6)

% 1.0

Listed.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Methyl Methacrylate (CAS 80-62-6)

Toxic Substances Control							
	Toxic Substances Control Act (TSCA)						
Not regulated.	TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)						
CERCLA Hazardous Substa	anco List (40 CEP 302	4)					
MALEIC ACID (CAS 110	•	+) Listed.					
Materia Adia (CAC 110 Methyl Methacrylate (CA		Listed.					
SARA 304 Emergency relea	,						
Not regulated.							
OSHA Specifically Regulate Not listed.	ed Substances (29 CFF	R 1910.1001-1053)					
Superfund Amendments and Re	eauthorization Act of 1	986 (SARA)					
SARA 302 Extremely hazar							
Not listed.							
SARA 311/312 Hazardous chemical	Yes						
Classified hazard	Flammable (gases, a	erosols, liquids, or solids	3)				
categories	Acute toxicity (any ro						
	Skin corrosion or irrita Serious eye damage						
	Respiratory or skin se	ensitization					
	Hazard not otherwise	classified (HNOC)					
SARA 313 (TRI reporting)							
Chemical name		CAS number	% by wt.	-			
Methyl Methacrylate		80-62-6	40 - 60				
Other federal regulations							
Clean Air Act (CAA) Section		ollutants (HAPS) List					
Methyl Methacrylate (CA Clean Air Act (CAA) Section		ease Prevention (40 CI	FR 68 130)				
Not regulated.			1 00.100				
Safe Drinking Water Act	Not regulated.						
(SDWA)	-						
-		-	or Manufacturing Workp	lace			
Methyl Methacrylate	(CAS 80-62-6)	Low priority					
US state regulations							
California Proposition 65							
California Safe Drinking is not known to contain a more information go to w	iny chemicals currently I	isted as carcinogens or i	osition 65): This material reproductive toxins. For				
International Inventories							
Country(s) or region	Inventory name			On inventory (yes/no)*			
Australia	•	of Industrial Chemicals (A	AICIS)	No			
Canada	Domestic Substances	s List (DSL)	,	Yes			
Canada	Non-Domestic Substa	ances List (NDSL)		No			
China	Inventory of Existing	Chemical Substances in	China (IECSC)	Yes			
Europe	European Inventory of Substances (EINECS	f Existing Commercial C	chemical	No			
Europe		fied Chemical Substance	es (FLINCS)	No			
Japan		and New Chemical Subs	. ,	No			
Korea	Existing Chemicals Li			Yes			
New Zealand	New Zealand Invento	. ,		Yes			
Philippines		ہ ہ f Chemicals and Chemic	cal Substances	Yes			
	(PICCS)						
Taiwan	Taiwan Chemical Sul	ostance Inventory (TCSI))	Yes			

Country(s) or region

United States & Puerto Rico

Inventory name

Toxic Substances Control Act (TSCA) Inventory

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	10-28-2019
Revision date	08-26-2024
Version #	05
HMIS® ratings	Health: 2 Flammability: 3 Physical hazard: 0
NFPA ratings	Health: 2 Flammability: 3 Instability: 0
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.
Revision information	This document has undergone significant changes and should be reviewed in its entirety.