# SAFETY DATA SHEET

# 1. Identification

Product identifier	PLEXUS® MA1020 Adhesi	ve		
Other means of identification				
SKU#	IT225			
Recommended use	Not available.	Not available.		
Recommended restrictions	None known.			
Manufacturer/Importer/Supplier/	Distributor information			
Manufacturer				
Company name	ITW Performance Polymers			
Address	30 Endicott Street			
	Danvers, MA 01923			
	United States			
Telephone	Customer Service	978-777-1100		
Website	www.itwperformancepolyme	www.itwperformancepolymers.com		
E-mail	Not available.	Not available.		
Contact person	EHS Department			
Emergency phone number	Chemtrec	800-424-9300		
	International	703-527-3887		
2. Hazard(s) identification	l			
Physical hazards	Flammable liquids		Category 2	
Health hazards	Skin corrosion/irritation		Category 2	
	Serious eye damage/eye irri	tation	Category 1	
	Sensitization, skin		Category 1	
	Specific target organ toxicity	, single exposure	Category 3 respiratory tract irritation	
Environmental hazards	Not classified.			

- **OSHA** defined hazards
- Label elements
- Not classified.



Signal word	Danger
Hazard statement	Highly flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation.
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. Immediately call a poison center/doctor. If skin irritation or rash occurs: 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 container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.
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.

55.85% of the mixture consists of component(s) of unknown acute inhalation toxicity.

#### Supplemental information

#### 3. Composition/information on ingredients

#### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Methyl Methacrylate		80-62-6	20 - 40
Vinyl Acetate Polymer		9003-20-7	20 - 40
Benzyl 3-isobutyryloxy-1-isopropyl-2,2-dim ethylpropyl Phthalate		16883-83-3	10 - 20
METHACRYLIC ACID		79-41-4	2.5 - 10
Poly(2-chloro-1,3-butadiene)		9010-98-4	2.5 - 10
Paraffin Wax		8002-74-2	1 - 2.5
Other components below reportable	evels		10 - 20

#### Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison Inhalation 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. Rinse mouth. Get medical attention if symptoms occur. Ingestion Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred Most important vision. Permanent eye damage including blindness could result. May cause respiratory irritation. symptoms/effects, acute and Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. delayed Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water Indication of immediate immediately. While flushing, remove clothes which do not adhere to affected area. Call an medical attention and special ambulance. Continue flushing during transport to hospital. Keep victim under observation. treatment needed Symptoms may be delayed. 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.

## 5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may 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 mea	sures
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. Do not get this material in contact with eyes. Avoid breathing mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. 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	Store locked up. 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 OSUA Table 7.4 Damaiasible Synaacuus Limite (DEL) fan Ain Canta

US. ACGIH Threshold Limit Components		Гуре	v	/alue	Form
METHACRYLIC ACID (CAS 79-41-4)	-	ΓWA	2	0 ppm	
Methyl Methacrylate (CAS 80-62-6)	S	STEL	1	00 ppm	
	٦	ΓWA	5	0 ppm	
Paraffin Wax (CAS 8002-74-2)	٢	ΓWA	2	mg/m3	Fume.
NIOSH. Immediately Dange Components		ealth (IDLH) Values, Гуре		/alue	
Methyl Methacrylate (CAS 80-62-6)	I	DLH	1	.7 %	
			1	000 ppm	
US. NIOSH: Pocket Guide to Components		rds Recommended Гуре	-	s (REL) /alue	Form
METHACRYLIC ACID (CAS 79-41-4)	٦	ΓWA	7	0 mg/m3	
			2	0 ppm	
Methyl Methacrylate (CAS 80-62-6)	٢	ΓWA	4	10 mg/m3	
			1	00 ppm	
Paraffin Wax (CAS 8002-74-2)	٢	ΓWA	2	mg/m3	Fume.
logical limit values	No biological e	xposure limits noted	for the ingredient(	(s).	
oosure guidelines					
US - California OELs: Skin	designation				
METHACRYLIC ACID (C US - Tennessee OELs: Skin	,	Can	be absorbed thro	ough the skin.	
METHACRYLIC ACID (C	,		be absorbed thro	ough the skin.	
US NIOSH Pocket Guide to	Chemical Hazard	-			
METHACRYLIC ACID (C	,		be absorbed thro	•	
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 recommended 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	, such as person	al protective equipr	nent		
Eye/face protection	Chemical respi	rator with organic va	por cartridge and	full facepiece.	
Skin protection Hand protection	Wear appropriate chemical resistant gloves.				
Other	Wear appropria	ate chemical resistant	t clothing.		
Respiratory protection		rator with organic va	-	full facepiece.	
Thermal hazards	Wear appropria	ate thermal protective	clothing, when n	ecessary.	
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 r be allowed out of the workplace.				
Physical and chemical	properties				
pearance	Paste.				
Physical state	Liquid.				
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Odor	Door Fragrant		
Material name: PLEX	JS® MA1020 Adhesive		
IT225 Version #: 06	Revision date: 08-03-2023	Issue date: 07-18-2019	

Paste.

Off-white

Form

Color

Odor threshold	Not available.
рН	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 exp	losive limits
Explosive limit - lower (%)	2.1 % estimated
Explosive limit - upper (%)	8.2 % estimated
Vapor pressure	37.23 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	815 °F (435 °C) estimated
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	0.98 g/cm3 estimated
Explosive properties	Not explosive.
Flammability class	Flammable IB estimated
Oxidizing properties	Not oxidizing.
Specific gravity	0.98 estimated
10. Stability and reactivity	·
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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	May cause irritation to the respiratory system. Prolonged inhalation may be harmful.
Skin contact	Causes skin irritation. May cause an allergic skin reaction.
Eye contact	Causes serious eye damage.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	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.

### Information on toxicological effects

Acute toxicity

Not known.

Test Results	
500 mg/kg	
7.10000000000005 mg/l, 4 Hours	
7.1000000000000000000000000000000000000	
1060 mg/kg	
7800 mg/kg	
ge.	
Dermal sensitization	
reaction.	
No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Not classifiable as to carcinogenicity to humans.	
ity	
crylate (CAS 80-62-6)3 Not classifiable as to carcinogenicity to humans.1,3-butadiene) (CAS 9010-98-4)3 Not classifiable as to carcinogenicity to humans.Polymer (CAS 9003-20-7)3 Not classifiable as to carcinogenicity to humans.y Regulated Substances (29 CFR 1910.1001-1053)	
cinogens	
This product is not expected to cause reproductive or developmental effects.	
May cause respiratory irritation.	
Not classified.	
be harmful.	
ed as environmentally hazardous. However, this does not exclude the quent spills can have a harmful or damaging effect on the environment	
e degradability of any ingredients in the mixture.	
0.93 1.38	
nental effects (e.g. ozone depletion, photochemical ozone creation tion, 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.	
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	
UN number	UN1133
UN proper shipping name	Adhesives, containing a flammable liquid
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Label(s)	3
Packing group	III
Environmental hazards	
Marine pollutant	No.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	B1, B52, IB3, T2, TP1
Packaging exceptions	150
Packaging non bulk	173
Packaging bulk	242
ΙΑΤΑ	
UN number	UN1133
UN proper shipping name	Adhesives containing flammable liquid
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Packing group	
Environmental hazards	No.
ERG Code	3L
	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo	Allowed with restrictions.
aircraft	Allowed with restrictions.
Cargo aircraft only IMDG	Allowed with restrictions.
UN number	UN1133
UN proper shipping name	ADHESIVES containing flammable liquid
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Packing group	
Environmental hazards	
Marine pollutant	No.
EmS	F-E, S-D
-	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to	Not established.
Annex II of MARPOL 73/78 and	
the IBC Code	



# 15. Regulatory information

JS 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 - To	xic Chemical: De minimis	concentration	
Methyl Methacrylate US EPCRA (SARA Title		% 1.0 xic Chemical: Listed sub	stance	
Methyl Methacrylate	(CAS 80-62-6)	Listed.		
Toxic Substances Control A	ct (TSCA)			
TSCA Section 12(b) Exp Not regulated.	oort Notification (40	CFR 707, Subpt. D)		
CERCLA Hazardous Substa	nce List (40 CFR 30	2.4)		
Methyl Methacrylate (CAS SARA 304 Emergency releas	,	Listed.		
Not regulated. OSHA Specifically Regulate	d Substances (29 C	FR 1910.1001-1053)		
Not listed.				
Superfund Amendments and Re SARA 302 Extremely hazard Not listed.		f 1986 (SARA)		
SARA 311/312 Hazardous chemical	Yes			
Classified hazard categories	Flammable (gases, aerosols, liquids, or solids) Skin corrosion or irritation Serious eye damage or eye irritation Respiratory or skin sensitization Specific target organ toxicity (single or repeated exposure) Hazard not otherwise classified (HNOC)			
SARA 313 (TRI reporting)				
Chemical name		CAS number	% by wt.	
Methyl Methacrylate		80-62-6	20 - 40	
Other federal regulations				
Clean Air Act (CAA) Section	112 Hazardous Air	Pollutants (HAPs) List		
Methyl Methacrylate (CAS	,			
Clean Air Act (CAA) Section	112(r) Accidental F	Release Prevention (40 Cl	<sup>F</sup> R 68.130)	

**Safe Drinking Water Act** Contains component(s) regulated under the Safe Drinking Water Act. (SDWA)

#### FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Methyl Methacrylate (CAS 80-62-6)

Low priority

#### **US state regulations**

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Methyl Methacrylate (CAS 80-62-6)

### **California Proposition 65**



**WARNING:** This product can expose you to Ethylene Glycol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

#### California Proposition 65 - CRT: Listed date/Developmental toxin

Ethylene Glycol (CAS 107-21-1)	Listed: June 19, 2015
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#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*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	07-18-2019
Revision date	08-03-2023
Version #	06
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.