SAFETY DATA SHEET

1.	Identification	

Product identifier	PLEXUS® MA330 Activator		
Other means of identification			
SKU#	IT742		
Recommended use	Not available.		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplie	r/Distributor information		
Manufacturer			
Company name Address	ITW Performance Polymers 30 Endicott Street Danvers, MA 01923 United States		
Telephone		978-777-1100	
Website	www.itwperformancepolymers	.com	
E-mail	Not available.		
Contact person	EHS Department	200 404 0200	
Emergency phone number		300-424-9300 703-527-3887	
2. Hazard(s) identificatio	n		
Physical hazards	Flammable liquids		Category 2
Health hazards	Acute toxicity, inhalation		Category 4
	Skin corrosion/irritation		Category 2
	Serious eye damage/eye irritat	tion	Category 2A
	Sensitization, skin		Category 1A
	Specific target organ toxicity, s	sinale exposure	Category 3 respiratory tract irritation
Environmental hazards	Not classified.	3	
OSHA defined hazards	Not classified.		
Label elements			
Signal word	Danger		
Hazard statement			in irritation. May cause an allergic skin reaction. d. 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. 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/eye protection/face protection.		
Response	protective gloves/eye protection/face protection. 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. 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.		
0.1.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0			an container tightly closed. Stare leaked up

Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Storage

Hazard(s) not otherwise classified (HNOC) Supplemental information

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.

3. Composition/information on ingredients

Mixtures

INIX[UIES			
Chemical name	Common name and synonyms	CAS number	%
Methyl Methacrylate		80-62-6	60 - 80
PYRIDINE, 3,5-DIETHYL-1,2-DIHYDRO-1 NYL-2-P ROPYL-	-PHE	34562-31-7	2.5 - 10
Other components below report	rtable levels		20 - 40
4. First-aid measures			
Inhalation	Remove victim to fresh air and keep at rest in artificial respiration if needed. Call a poison c	•	0 10
Skin contact	Remove contaminated clothing immediately a eczema or other skin disorders: Seek medica contaminated clothing before reuse.		
Eye contact	Immediately flush eyes with plenty of water for present and easy to do. Continue rinsing. Get		
Ingestion	Rinse mouth. Get medical attention if sympto	ms occur.	
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include vision. May cause respiratory irritation. Skin in allergic skin reaction. Dermatitis. Rash.		
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and tre immediately. While flushing, remove clothes ambulance. Continue flushing during transpo observation. Symptoms may be delayed.	which do not adhere to affecte	ed area. Call an
General information	Take off all contaminated clothing immediate label where possible). Ensure that medical per take precautions to protect themselves. Wasl	ersonnel are aware of the mat	erial(s) involved, and

5. Fire-fighting measures

3 3	
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	sules
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	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. ACGIH Threshold Limi		
Components	Туре	Value
Methyl Methacrylate (CAS 80-62-6)	STEL	100 ppm
	TWA	50 ppm
US. NIOSH: Pocket Guide t	o Chemical Hazards	
Components	Туре	Value
Methyl Methacrylate (CAS 80-62-6)	TWA	410 mg/m3
		100 ppm
Biological limit values	No biological exposure limits noted	for the ingredient(s).
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.	
ndividual protection measures Eye/face protection	s, such as personal protective equip Chemical respirator with organic va	
Skin protection Hand protection	Wear appropriate chemical resistan	it 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.	
General hygiene considerations	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 no be allowed out of the workplace.	

or r nyoroar and orionnoar	
Appearance	Paste.
Physical state	Liquid.
Form	Paste.
Color	Black.
Odor	Fragrant
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
Flammability limit - lower (%)	2.1 % estimated
Flammability limit - upper (%)	12.5 % estimated
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	51.33 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	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	0.96 g/cm3 estimated
Explosive properties	Not explosive.
Flammability class	Flammable IB estimated
Oxidizing properties	Not oxidizing.
Specific gravity	0.96 estimated
10. Stability and reactivi	ty
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.
ncompatible materials	Strong oxidizing agents. Nitrates. Peroxides.
Hazardous decomposition products	No hazardous decomposition products are known.
11. Toxicological inform	ation
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	Knowledge about health hazard is incomplete.
Symptoms related to the	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

Symptoms related to the physical, chemical and toxicological characteristics Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. 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 Harmful if inhaled.

·····,		
Components	Species	Test Results
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 skin irritation.	
Serious eye damage/eye irritation	Causes serious eye irritation	٦.
Respiratory or skin sensitizatio	n	
ACGIH sensitization		
METHYL METHACRYLA	ATE (CAS 80-62-6)	Dermal sensitization
Respiratory sensitization	Due to partial or complete la	ack of data the classification is not possible.
Skin sensitization	May cause an allergic skin r	eaction.
Germ cell mutagenicity	Due to partial or complete la	ack of data the classification is not possible.
Carcinogenicity	Due to partial or complete la	ack of data the classification is not possible.

Not listed. US. National Toxicology Program Not listed. Reproductive toxicity Due Specific target organ toxicity - May single exposure Specific target organ toxicity - Specific target organ toxicity - Due Specific target organ toxicity - Due repeated exposure Aspiration hazard Due Chronic effects Proletion I2. Ecological information Ecotoxicity The pose Persistence and degradability No of Bioaccumulative potential Partition coefficient n-octanol / we Methyl Methacrylate	to partial or complete lack of data the classification is not possible.
US. National Toxicology Program Not listed. Reproductive toxicity Due Specific target organ toxicity - May single exposure Specific target organ toxicity - Due repeated exposure Aspiration hazard Due Chronic effects Prole 12. Ecological information Ecotoxicity The pose Persistence and degradability No of Bioaccumulative potential Partition coefficient n-octanol / we Methyl Methacrylate	to partial or complete lack of data the classification is not possible.
Not listed.Reproductive toxicityDueSpecific target organ toxicity - single exposureMaySpecific target organ toxicity - repeated exposureDueAspiration hazardDueChronic effectsProblemI2. Ecological informationThe poseEcotoxicityThe posePersistence and degradabilityNo ofBioaccumulative potentialPartition coefficient n-octanol / we Methyl Methacrylate	to partial or complete lack of data the classification is not possible.
Specific target organ toxicity - single exposureMay single exposureSpecific target organ toxicity - repeated exposureDue Repeated exposureAspiration hazardDue Chronic effectsProle12. Ecological informationEcotoxicityThe posePersistence and degradabilityNo compare Bioaccumulative potential Partition coefficient n-octanol / we Methyl MethacrylateMay single exposure	
single exposure Specific target organ toxicity - Prepeated exposure Aspiration hazard Due Chronic effects Proble 12. Ecological information Ecotoxicity The pose Persistence and degradability Bioaccumulative potential Partition coefficient n-octanol / we Methyl Methacrylate	
repeated exposure Aspiration hazard Due Chronic effects Proleting 12. Ecological information Ecotoxicity Fecotoxicity The pose Persistence and degradability No compose Bioaccumulative potential Partition coefficient n-octanol / we Methyl Methacrylate	v cause respiratory irritation.
Chronic effects Proletion 12. Ecological information Image: Color of the second se	to partial or complete lack of data the classification is not possible.
12. Ecological information Ecotoxicity The pose Persistence and degradability No of Bioaccumulative potential Partition coefficient n-octanol / we Methyl Methacrylate	e to partial or complete lack of data the classification is not possible.
Ecotoxicity The pose Persistence and degradability No of Bioaccumulative potential Partition coefficient n-octanol / we Methyl Methacrylate	longed inhalation may be harmful.
pose Persistence and degradability No of Bioaccumulative potential Partition coefficient n-octanol / we Methyl Methacrylate	
Bioaccumulative potential Partition coefficient n-octanol / w Methyl Methacrylate	product is not classified as environmentally hazardous. However, this does not exclude the sibility that large or frequent spills can have a harmful or damaging effect on the environment.
Partition coefficient n-octanol / was Methyl Methacrylate	data is available on the degradability of any ingredients in the mixture.
Methyl Methacrylate	
Mobility in soil No c	ater (log Kow) 1.38
-	data available.
	other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation ential, endocrine disruption, global warming potential) are expected from this component.
13. Disposal considerations	
- mate cont	ect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the erial under controlled conditions in an approved incinerator. Do not incinerate sealed tainers. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose of tents/container in accordance with local/regional/national/international regulations.
Local disposal regulations Disp	pose in accordance with all applicable regulations.
The	1: Waste Flammable material with a flash point <140 F waste code should be assigned in discussion between the user, the producer and the waste posal company.
products prod	bose of in accordance with local regulations. Empty containers or liners may retain some duct residues. This material and its container must be disposed of in a safe manner (see: bosal instructions).
	ce emptied containers may retain product residue, follow label warnings even after container is btied. Empty containers should be taken to an approved waste handling site for recycling or nosal.
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
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
Special precautions for user Other information	Read safety instructions, SDS and emergency procedures before handling.
Passenger and cargo aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.
IMDG	
UN number	UN1133
UN proper shipping name	ADHESIVES containing flammable liquid
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Packing group	11
Environmental hazards	
Marine pollutant	No.
EmS	F-E, S-D
	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not established.
DOT	
FLAMMABLE LIQUID	
IATA; IMDG	

15. Regulatory information

US federal regulations	This product is a "Haza Standard, 29 CFR 191	ardous Chemical" as defined by the OSHA Hazard Corr 0.1200.	nmunication
US EPCRA (SARA Tit	le III) Section 313 - Toxic	Chemical: De minimis concentration	
Methyl Methacryla	te (CAS 80-62-6)	% 1.0	
US EPCRA (SARA Tit	le III) Section 313 - Toxic	Chemical: Listed substance	
Methyl Methacryla	te (CAS 80-62-6)	Listed.	
Toxic Substances Contro	I Act (TSCA)		
TSCA Section 12(b) E	xport Notification (40 CF	R 707, Subpt. D)	
N I I I I I I I I I I			

Not regulated.

CERCLA Hazardous Substar	nce List (40 CFR 302.4)			
Methyl Methacrylate (CAS 80-62-6) Listed.				
SARA 304 Emergency releas	e notification			
Not regulated. OSHA Specifically Regulated	Substances (20 CEP 1)	010 1001-1053)		
Not listed.	Substances (29 CFR 1	910.1001-1055)		
Superfund Amendments and Rea	authorization Act of 198	6 (SABA)		
SARA 302 Extremely hazard				
Not listed.				
SARA 311/312 Hazardous chemical	Yes			
Classified hazard categories	Flammable (gases, aero Acute toxicity (any route Skin corrosion or irritatio Serious eye damage or Respiratory or skin sens Specific target organ to Hazard not otherwise cla	of exposure) on eye irritation sitization kicity (single or repea		
SARA 313 (TRI reporting) Chemical name		CAS number	% by wt.	
Methyl Methacrylate		80-62-6	60 - 80	
Other federal regulations		00 02 0	00 00	
Clean Air Act (CAA) Section	112 Hazardous Air Pollu	utants (HAPs) List		
Methyl Methacrylate (CAS				
Clean Air Act (CAA) Section	112(r) Accidental Relea	se Prevention (40 C	FR 68.130)	
Not regulated.				
Safe Drinking Water Act (SDWA)	Contains component(s)	regulated under the	Safe Drinking Water Act.	
FEMA Priority Substance	es Respiratory Health a	nd Safety in the Fla	vor Manufacturing Workpla	се
Methyl Methacrylate ((CAS 80-62-6)	Low priority		
US state regulations				
California Proposition 65				
Cal		nd birth defects or ot	ing BUTADIENE, which is known in the second se	
California Proposition 6	5 - CRT: Listed date/Car	cinogenic substand	ce	
-	lonitrile, Cyanoethylene	Listed: July 1		
BUTADIENE (CAS 10	,	Listed: April		
Carbon Black (CAS 1	,	Listed: Febru Listed: July 1		
Ethyl Acrylate (CAS 1 STYRENE (CAS 100-		Listed: April 2		
California Proposition 6				
BUTADIENE (CAS 10		Listed: April		
California Proposition 6		-		
BUTADIENE (CAS 10 California Proposition 6	,	Listed: April		
BUTADIENE (CAS 10		Listed: April		
US. California. Candidat subd. (a))	e Chemicals List. Safer	Consumer Product	s Regulations (Cal. Code R	egs, tit. 22, 69502.3,
Methyl Methacrylate ((CAS 80-62-6)			
International Inventories				
Country(s) or region	Inventory name			On inventory (yes/no)*
Australia	Australian Inventory of C	Chemical Substances	s (AICS)	Yes
Canada	Domestic Substances L			No
Canada	Non-Domestic Substance			No
China	Inventory of Existing Ch	emical Substances in	n China (IECSC)	Yes

Material name: PLEXUS® MA330 Activator

Country(s) or region	Inventory name On invent	ory (yes/no)*
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)	Yes
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	05-26-2019
Revision date	04-28-2020
Version #	02
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.