SAFETY DATA SHEET



1. Identification

Product identifier	PLEXUS® MA550 Adhesive	
Other means of identification		
SKU#	0927	
Recommended use	Not available.	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier/	Distributor information	
Company name	ITW Performance Polymers	
Address	35 Brownridge Rd	
	Unit 1	
	Halton Hills, ON L7G 0C6	
Contact person	Customer Service	
Telephone number	978-777-1100	
Fax		
E-mail		
Emergency telephone number	800-424-9300	
Supplier	Not available.	
2. Hazard identification		
Physical hazards	Flammable liquids	Category 2
Health hazards	Acute toxicity, inhalation	Category 4
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Sensitization, skin	Category 1A
	Specific target organ toxicity following single exposure	Category 3 respiratory tract irritation
Environmental hazards	Not classified.	
Label elements		
Signal word	Danger	
Hazard statement	Highly flammable liquid and vapour. Causes s Causes serious eye irritation. Harmful if inhale	kin irritation. May cause an allergic skin reaction. ed. May cause respiratory irritation.
Precautionary statement		
Prevention	Keep container tightly closed. Ground and bor explosion-proof electrical/ventilating/lighting ed	pen flames and other ignition sources. No smoking. nd container and receiving equipment. Use quipment. Use non-sparking tools. Take action to st/vapours. Wash thoroughly after handling. Use

Response	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. 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 CENTRE/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.
Storage	Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Other hazards	Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapour. May cause flash fire or explosion.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Methyl methacrylate		80-62-6	40 - 70
Styrene/butadiene Copolymer		9003-55-8	10 - 30
Methacrylic acid		79-41-4	1 - 10
Paraffin wax		8002-74-2	0.5 - 1.5
Ethylene glycol		107-21-1	0.1 - 1
Other components below reportable	levels		10 - 30

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

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 centre 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. May cause respiratory irritation. 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. 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	Vapours may form explosive mixtures with air. Vapours 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 so without risk.	fumes. Move containe	ers from fire area if you can do
Specific methods	Use standard firefighting procedures and cons	ider the hazards of oth	ner involved materials.
General fire hazards	Highly flammable liquid and vapour.		
6. Accidental release mea	sures		
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep peo ignition sources (no smoking, flares, sparks, or protective equipment and clothing during clear damaged containers or spilled material unless closed spaces before entering them. Use appr contamination. Transfer by mechanical means suitable container for recovery or safe disposa spillages cannot be contained. For personal pr	r flames in immediate n-up. Avoid breathing i wearing appropriate p opriate containment to such as vacuum truch I. Local authorities sho	area). Wear appropriate mist/vapours. Do not touch protective clothing. Ventilate o avoid environmental k to a salvage tank or other puld be advised if significant
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flare combustibles (wood, paper, oil etc) away from against static discharge. Use only non-sparking	spilled material. Take	
	Large Spills: Stop the flow of material, if this is possible. Use a non-combustible material like and place into a container for later disposal. For	vermiculite, sand or ea	arth to soak up the product
	Small Spills: Absorb with earth, sand or other r for later disposal. Wipe up with absorbent mate remove residual contamination.		
Environmental precautions	Never return spills to original containers for re- Avoid discharge into drains, water courses or o avoid environmental contamination.	-	
7. Handling and storage			
Precautions for safe handling	Do not handle, store or open near an open flar material from direct sunlight. When using do no ventilation. Minimize fire risks from flammable dust and static accumulating liquids) or danger operations that can promote accumulation of s filtering, pumping at high flow rates, splash fillin filling, tank cleaning, sampling, gauging, switch precautionary measures against static discharg must be grounded. Use non-sparking tools and mist/vapours. Avoid contact with eyes, skin, ar area. Wear appropriate personal protective eq For additional information on equipment bondin Code in Canada, (CSA C22.1), or the America 2003, "Protection Against Ignitions Arising out Fire Protection Association (NFPA) 77, "Recor Fire Protection Association (NFPA) 70, "Nation	ot smoke. Explosion-p and combustible mater rous reactions with inc static charges include l ng, creating mists or s n loading, vacuum truc ges. All equipment used explosion-proof equi ad clothing. Use only c uipment. Observe good ng and grounding, refe n Petroleum Institute of Static, Lightning, an nmended Practice on hal Electrical Code".	proof general and local exhaust erials (including combustible compatible materials. Handling but are not limited to: mixing, prays, tank and container ex operations. Take ed when handling the product pment. Avoid breathing butdoors or in a well-ventilated of industrial hygiene practices. er to the Canadian Electrical (API) Recommended Practice nd Stray Currents" or National Static Electricity" or National
Conditions for safe storage, including any incompatibilities	Store locked up. Keep away from heat, sparks build-up by using common bonding and ground spark promoters. Ground/bond container and e remove static electricity. Store in a cool, dry pla container. Store in a well-ventilated place. Kee from incompatible materials (see Section 10 of	ding techniques. Elimi equipment. These alor ace out of direct sunlig p in an area equipped	nate sources of ignition. Avoid ne may be insufficient to ght. Store in tightly closed
8. Exposure controls/pers	onal protection		
Occupational exposure limits			
US. ACGIH Threshold Limit Components	Values Type	Value	Form
ETHYLENE GLYCOL (CAS 107-21-1)	STEL	10 mg/m3	Aerosol, inhalable.

TWA

Vapor fraction

Vapor fraction

50 ppm

25 ppm

US. ACGIH Threshold Limit Values

Components	Туре	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.	

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Туре	Value Form	
ETHYLENE GLYCOL (CAS 107-21-1)	Ceiling	100 mg/m3	
METHACRYLIC ACID (CAS 79-41-4)	TWA	70 mg/m3	
		20 ppm	
METHYL METHACRYLATE (CAS 80-62-6)	STEL	410 mg/m3	
		100 ppm	
	TWA	205 mg/m3	
		50 ppm	
Paraffin wax (CAS 8002-74-2)	TWA	2 mg/m3 Fume.	

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Туре	Value	Form
ETHYLENE GLYCOL (CAS 107-21-1)	Ceiling	100 mg/m3	Aerosol
		50 ppm	Vapour.
	STEL	20 mg/m3	Particulate.
	TWA	10 mg/m3	Particulate.
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.

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

Components	Туре	Value	Form
ETHYLENE GLYCOL (CAS 107-21-1)	STEL	10 mg/m3	Aerosol, inhalable.
		50 ppm	Vapor fraction
	TWA	25 ppm	Vapor fraction
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.

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) Components Form Туре Value ETHYLENE GLYCOL (CAS Ceiling 100 mg/m3 Aerosol 107-21-1) METHACRYLIC ACID (CAS TWA 20 ppm 79-41-4) METHYL METHACRYLATE STEL 100 ppm (CAS 80-62-6) TWA 50 ppm TWA Paraffin wax (CAS 2 mg/m3 Fume. 8002-74-2)

Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety)

Components	Туре	Value	Form	
ETHYLENE GLYCOL (CAS 107-21-1)	Ceiling	127 mg/m3	Vapor and mist.	
		50 ppm	Vapor and mist.	
METHACRYLIC ACID (CAS 79-41-4)	TWA	70 mg/m3		
		20 ppm		
METHYL METHACRYLATE (CAS 80-62-6)	TWA	205 mg/m3		
		50 ppm		
Paraffin wax (CAS 8002-74-2)	TWA	2 mg/m3	Fume.	

Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) Components Valua

Components	Type	Value	Form	
ETHYLENE GLYCOL (CAS 107-21-1)	Ceiling	100 mg/m3	Aerosol	
METHACRYLIC ACID (CAS 79-41-4)	15 minute	30 ppm		
	8 hour	20 ppm		
METHYL METHACRYLATE (CAS 80-62-6)	15 minute	100 ppm		
	8 hour	50 ppm		
Paraffin wax (CAS 8002-74-2)	15 minute	4 mg/m3	Fume.	
	8 hour	2 mg/m3	Fume.	
ological limit values	No biological exposure limits noted for th	ne ingredient(s).		
cposure guidelines	Occupational Exposure Limits are not re	Occupational Exposure Limits are not relevant to the current physical form of the product.		
opropriate engineering ontrols	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.			
dividual protection measures,	such as personal protective equipment	t		
Eye/face protection	Chemical respirator with organic vapour	cartridge and full facepiece.		
Skin protection				
Hand protection	Wear appropriate chemical resistant glo	ves.		
Other	Wear appropriate chemical resistant clo	thing.		
Respiratory protection	Chemical respirator with organic vapour	cartridge and full facepiece.		
Thermal hazards	Wear appropriate thermal protective clot	thing, when necessary.		
eneral hygiene onsiderations	When using do not smoke. Always obse after handling the material and before ea clothing and protective equipment to ren be allowed out of the workplace.	ating, drinking, and/or smoki	ng. Routinely wash work	

9. Physical and chemical properties

9. Physical and chemical	properties
Appearance	Paste.
Physical state	Liquid.
Form	Paste.
Colour	Off-white.
Odour	Fragrant
Odour threshold	Not available.
рН	Not available.
Melting point/freezing point	-48 °C (-54.4 °F) estimated
Initial boiling point and boiling range	100.5 °C (212.9 °F) estimated
Flash point	10.0 °C (50.0 °F) estimated
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	1.7 %
Flammability limit - upper (%)	12.5 %
Explosive limit - lower (%)	Not available.
Explosive limit – upper (%)	Not available.
Vapour pressure	2.8 mm Hg @ 20 °C
Vapour 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	0.95 g/cm3 estimated
Explosive properties	Not explosive.
Flammability class	Flammable IB estimated
Oxidising properties	Not oxidising.
Specific gravity	0.95 estimated
10 Stability and reactivity	

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 polymerisation does not occur.
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.
Incompatible materials	Strong oxidising agents. Nitrates. Peroxides.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of e	-		
Inhalation	Harmful if inhaled.	nuce en ellerais akin reaction	
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.	
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Sympto vision. May cause respiratory allergic skin reaction. Derma	ms may include stinging, tearing, redness, swelling, and blurred / irritation. Skin irritation. May cause redness and pain. May cause an titis. Rash.	
Information on toxicological eff	ects		
Acute toxicity	Harmful if inhaled.		
Components	Species	Test Results	
Ethylene glycol (CAS 107-21-1)			
<u>Acute</u>			
Dermal			
LD50	Rabbit	9530 mg/kg	
Methyl methacrylate (CAS 80-62-0	6)		
Acute			
Inhalation	Maura		
LC50	Mouse	18.5 mg/l, 2 Hours	
Oral	Pot	7900 ma/ka	
LD50	Rat	7800 mg/kg	
Skin corrosion/irritation	Causes skin irritation.		
Serious eye damage/eye irritation	Causes serious eye irritation		
Respiratory or skin sensitisatio	n		
ACGIH sensitisation			
Methyl methacrylate (CA Canada - Alberta OELs: Irrit		Dermal sensitisation	
Ethylene glycol (CAS 10		Irritant	
Methacrylic acid (CAS 79 Canada - Manitoba OELs Ha	,	Irritant	
Methyl methacrylate (CA		Dermal sensitisation	
Canada - Quebec OELs: Se	-		
Methyl methacrylate (CA	S 80-62-6)	Sensitiser.	
Canada - Saskatchewan OE	ELs Hazard Data: Sensitiser		
Methyl methacrylate (CA	S 80-62-6)	Sensitiser.	
Respiratory sensitisation	Not a respiratory sensitizer.		
Skin sensitisation	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			
ACGIH Carcinogens			
Ethylene glycol (CAS 10 Methyl methacrylate (CA Canada - Manitoba OELs: c	S 80-62-6)	A4 Not classifiable as a human carcinogen. A4 Not classifiable as a human carcinogen.	
Ethylene glycol (CAS 10		Not classifiable as a human carcinogen.	
Methyl methacrylate (CA		Not classifiable as a human carcinogen.	
	Evaluation of Carcinogenicity		
Methyl methacrylate (CA Styrene/butadiene Copol		3 Not classifiable as to carcinogenicity to humans.3 Not classifiable as to carcinogenicity to humans.	

Specific target organ toxicity - single exposure	May cause respiratory irritation.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not an aspiration hazard.	
12. Ecological information	1	
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-octan Ethylene glycol Methacrylic acid Methyl methacrylate	ol / water (log Kow) -1.36 0.93 1.38	
Mobility in soil	No data available.	
Other adverse effects	The product contains volatile organic compounds which have a photochemical ozone creation potential.	
13. Disposal consideratio	ns	
13. Disposal consideratio Disposal instructions	ns Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.	
•	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of	
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.	
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations. Dispose in accordance with all applicable regulations. The waste code should be assigned in discussion between the user, the producer and the waste	
Disposal instructions Local disposal regulations Hazardous waste code Waste from residues / unused	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations. Dispose in accordance with all applicable regulations. The waste code should be assigned in discussion between the user, the producer and the waste disposal company. 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 Local disposal regulations Hazardous waste code Waste from residues / unused products	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations. Dispose in accordance with all applicable regulations. The waste code should be assigned in discussion between the user, the producer and the waste disposal company. 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). 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.	
Disposal instructions Local disposal regulations Hazardous waste code Waste from residues / unused products Contaminated packaging	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations. Dispose in accordance with all applicable regulations. The waste code should be assigned in discussion between the user, the producer and the waste disposal company. 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). 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.	
Disposal instructions Local disposal regulations Hazardous waste code Waste from residues / unused products Contaminated packaging 14. Transport information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations. Dispose in accordance with all applicable regulations. The waste code should be assigned in discussion between the user, the producer and the waste disposal company. 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). 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.	
Disposal instructions Local disposal regulations Hazardous waste code Waste from residues / unused products Contaminated packaging 14. Transport information TDG	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations. Dispose in accordance with all applicable regulations. The waste code should be assigned in discussion between the user, the producer and the waste disposal company. 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). 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.	

UN1133

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11

No.

3L

Not available.

UN1133

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Allowed with restrictions.

Allowed with restrictions.

Adhesives containing flammable liquid, Limited Quantity

ADHESIVES containing flammable liquid, Limited Quantity

Subsidiary risk

Environmental hazards

UN proper shipping name Transport hazard class(es)

Subsidiary risk

Environmental hazards

Passenger and cargo

Cargo aircraft only

UN proper shipping name

Packing group

UN number

Class

Packing group

Other information

aircraft

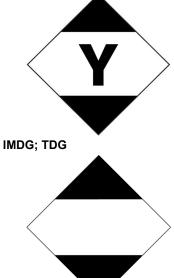
UN number

ERG Code

ΙΑΤΑ

IMDG

Transport hazard class(es)	
Class	3
Subsidiary risk	-
Packing group	П
Environmental hazards	
Marine pollutant	No.
EmS	F-E, S-D
Special precautions for user	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	
ΙΑΤΑ	
A	



15. Regulatory information

Canadian regulations

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Controlled Drugs and Substances Act Not regulated. Export Control List (CEPA 1999, Schedule 3) Not listed. **Greenhouse Gases** Not listed. **Precursor Control Regulations** Not regulated. International regulations **Stockholm Convention** Not applicable. **Rotterdam Convention** Not applicable. **Kyoto Protocol** Not applicable. **Montreal Protocol** Not applicable. **Basel Convention** Not applicable.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	No
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	
Issue date	09-April-2019
Revision date	03-August-2021
Version No.	03
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	Ecological information: Other adverse effects Transport Information: Proper Shipping Name/Packing Group

SAFETY DATA SHEET

1. Identification		
Product identifier	PLEXUS® MA320/550 EU White Activator	
Other means of identification		
SKU#	0638	
Recommended use	Not available.	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier	Distributor information	
Company name	ITW Performance Polymers	
Address	35 Brownridge Rd	
	Unit 1	
	Halton Hills, ON L7G 0C6	
Contact person	Customer Service	
Telephone number	978-777-1100	
Fax		
E-mail		
Emergency telephone number	800-424-9300	
Supplier	Not available.	
2. Hazard identification		
Physical hazards	Not classified.	
Health hazards	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Sensitization, skin	Category 1
	Specific target organ toxicity following single exposure	Category 3 respiratory tract irritation
Environmental hazards	Not classified.	
Label elements		
Signal word	Warning	
Hazard statement	Causes skin irritation. May cause an allergic s cause respiratory irritation.	kin reaction. Causes serious eye irritation. May
Precautionary statement		
Prevention		doors or in a well-ventilated area. Contaminated workplace. Wear eye protection/face protection.
Response	contact lenses, if present and easy to do. Con	cautiously with water for several minutes. Remove tinue rinsing. Call a POISON CENTRE/doctor if you t medical advice/attention. If eye irritation persists:
Storage	Store in a well-ventilated place. Keep contained	er tightly closed. Store locked up.
Disposal	Dispose of contents/container in accordance	with local/regional/national/international regulations.
Other hazards	None known.	
Supplemental information	None.	

3. Composition/information on ingredients

Mixtures			
Chemical name	Common name and synonyms	CAS number	%
DIBUTYL MALEATE		105-76-0	15 - 40
Titanium dioxide		13463-67-7	15 - 40
BENZOYL PEROXIDE		94-36-0	5 - 10
Other components below re	portable levels		30 - 60

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures	
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison centre 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. May cause respiratory irritation. 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. Keep victim under observation. Symptoms may be delayed.
General information	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. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	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	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	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. 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	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
Environmental precautions	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

cautions for safe handling	Avoid breathing mist/vapours Avoid	contact with ever skin and old	hing Avoid prolonged
5	 Avoid breathing mist/vapours. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Obser good industrial hygiene practices. Store locked up. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). 		
nditions for safe storage, uding any incompatibilities			
Exposure controls/pers	sonal protection		
upational exposure limits			
US. ACGIH Threshold Limit Components		Value	
· ·	Туре		
BENZOYL PEROXIDE (CAS 94-36-0)	TWA	5 mg/m3	
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	
Canada. Alberta OELs (Occ Components	upational Health & Safety Code, Scho Type	edule 1, Table 2) Value	
BENZOYL PEROXIDE	TWA	5 mg/m3	
(CAS 94-36-0)	IWA	5 mg/m3	
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	
Canada. British Columbia O Safety Regulation 296/97, as	DELs. (Occupational Exposure Limits	for Chemical Substances, Oc	cupational Health and
Components	Туре	Value	Form
BENZOYL PEROXIDE (CAS 94-36-0)	TWA	5 mg/m3	
Titanium dioxide (CAS 13463-67-7)	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Total dust.
Canada. Manitoba OELs (Re Components	eg. 217/2006, The Workplace Safety A Type	And Health Act) Value	
BENZOYL PEROXIDE (CAS 94-36-0)	TWA	5 mg/m3	
Titanium dioxide (CAS	TWA	10 mg/m3	
13463-67-7)			
13463-67-7)	ntrol of Exposure to Biological or Ch	emical Agents)	
13463-67-7)	ntrol of Exposure to Biological or Cho Type	emical Agents) Value	
13463-67-7) Canada. Ontario OELs. (Cor Components BENZOYL PEROXIDE		÷ .	
13463-67-7) Canada. Ontario OELs. (Cor Components	Туре	Value	
13463-67-7) Canada. Ontario OELs. (Cor Components BENZOYL PEROXIDE (CAS 94-36-0) Titanium dioxide (CAS 13463-67-7)	Type TWA	Value 5 mg/m3 10 mg/m3	fety) Form
13463-67-7) Canada. Ontario OELs. (Cor Components BENZOYL PEROXIDE (CAS 94-36-0) Titanium dioxide (CAS 13463-67-7) Canada. Quebec OELs. (Mir Components BENZOYL PEROXIDE	Type TWA TWA nistry of Labor - Regulation respectin	Value 5 mg/m3 10 mg/m3 ng occupational health and sa	
13463-67-7) Canada. Ontario OELs. (Cor Components BENZOYL PEROXIDE (CAS 94-36-0) Titanium dioxide (CAS 13463-67-7) Canada. Quebec OELs. (Mir Components	Type TWA TWA histry of Labor - Regulation respectin Type	Value 5 mg/m3 10 mg/m3 ng occupational health and sa Value	
13463-67-7) Canada. Ontario OELs. (Cor Components BENZOYL PEROXIDE (CAS 94-36-0) Titanium dioxide (CAS 13463-67-7) Canada. Quebec OELs. (Mir Components BENZOYL PEROXIDE (CAS 94-36-0) Titanium dioxide (CAS 13463-67-7)	Type TWA TWA histry of Labor - Regulation respectin Type TWA	Value 5 mg/m3 10 mg/m3 ag occupational health and sa Value 5 mg/m3 10 mg/m3	Form
13463-67-7) Canada. Ontario OELs. (Cor Components BENZOYL PEROXIDE (CAS 94-36-0) Titanium dioxide (CAS 13463-67-7) Canada. Quebec OELs. (Mir Components BENZOYL PEROXIDE (CAS 94-36-0) Titanium dioxide (CAS 13463-67-7) Canada. Saskatchewan OEL Components BENZOYL PEROXIDE	Type TWA TWA histry of Labor - Regulation respection Type TWA TWA Ls (Occupational Health and Safety R	Value 5 mg/m3 10 mg/m3 ng occupational health and sa Value 5 mg/m3 10 mg/m3 10 mg/m3 Regulations, 1996, Table 21)	Form
13463-67-7) Canada. Ontario OELs. (Cor Components BENZOYL PEROXIDE (CAS 94-36-0) Titanium dioxide (CAS 13463-67-7) Canada. Quebec OELs. (Mir Components BENZOYL PEROXIDE (CAS 94-36-0) Titanium dioxide (CAS 13463-67-7) Canada. Saskatchewan OEL Components	Type TWA TWA histry of Labor - Regulation respectin Type TWA TWA Ls (Occupational Health and Safety F Type	Value 5 mg/m3 10 mg/m3 ag occupational health and sa Value 5 mg/m3 10 mg/m3 Regulations, 1996, Table 21) Value	Form

Canada. Saskatchewan O Components	ELs (Occupational Health and Safety Type	Regulations, 1996, Table 21) Value
	8 hour	10 mg/m3
Biological limit values	No biological exposure limits noted f	or the ingredient(s).
Appropriate engineering controls	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 measure	s, such as personal protective equipn	nent
Eye/face protection	Chemical respirator with organic vap	our 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 vap	our cartridge and full facepiece.
Thermal hazards	Wear appropriate thermal protective	clothing, when necessary.
General hygiene considerations	and before eating, drinking, and/or s	ne measures, such as washing after handling the material moking. Routinely wash work clothing and protective Contaminated work clothing should not be allowed out of the

9. Physical and chemical properties

9. Physical and chemical	properties
Appearance	Paste.
Physical state	Liquid.
Form	Paste.
Colour	White
Odour	Slight.
Odour threshold	Not available.
рН	6
Melting point/freezing point	103 °C (217.4 °F) estimated
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit – upper (%)	Not available.
Vapour pressure	0.0004 hPa estimated
Vapour density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	80 °C (176 °F) estimated
Decomposition temperature	Not available.
Viscosity	Not available.

Other information		
Explosive properties	Not explosive.	
Oxidising properties	Not oxidising.	
10. Stability and reactivity	y	
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	No dangerous reaction known under conditions of normal use.	
Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials.	
Incompatible materials	Alcohols. Amines.	
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 irritation.	
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. 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.	
Components	Species	Test Results
BENZOYL PEROXIDE (CAS 94-	36-0)	
Acute		
Oral		
LD50	Rat	7710 mg/kg
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	Causes serious eye irritation.	
Respiratory or skin sensitisati	on	
Canada - Alberta OELs: Irr	itant	
BENZOYL PEROXIDE Titanium dioxide (CAS		Irritant Irritant
Respiratory sensitisation	Not a respiratory sensitizer.	
Skin sensitisation	May cause an allergic skin rea	action.
Germ cell mutagenicity	No data available to indicate protoxic.	product or any components present at greater than 0.1% are
Carcinogenicity		
ACGIH Carcinogens		
BENZOYL PEROXIDE		A4 Not classifiable as a human carcinogen.
Titanium dioxide (CAS	,	A4 Not classifiable as a human carcinogen.
Canada - Manitoba OELs:	v ,	
BENZOYL PEROXIDE Titanium dioxide (CAS		Not classifiable as a human carcinogen. Not classifiable as a human carcinogen.
	I Evaluation of Carcinogenicity	
BENZOYL PEROXIDE Titanium dioxide (CAS	(CAS 94-36-0)	3 Not classifiable as to carcinogenicity to humans. 2B Possibly carcinogenic to humans.
Reproductive toxicity	This product is not expected t	o cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	May cause respiratory irritatio	n.
Material name: PLEXUS® MA320/5	50 ELLWhite Activator	SDS CANADA

Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not likely, due to the form of the product.	
Chronic effects	Prolonged inhalation may be harmful.	
12. Ecological information	ı	
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-octan BENZOYL PEROXIDE	ol / water (log Kow) 3.46	
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 consideratio	ns	
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. 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	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

TDG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not established. Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information

Canadian regulations

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Controlled Drugs and Substances Act

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed. Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto Protocol

Not applicable.

Montreal Protocol Not applicable. Basel Convention Not applicable.



International Inventories

Country(s) or region	Inventory name On inventory ((yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	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)	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 compo	nents of this product comply with the inventory requirements administered by the governing country(s)	

*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

Issue date	09-April-2019
Version No.	01
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.