SAFETY DATA SHEET

1. Identification			
Product identifier	PLEXUS® MA530 White Activator		
Other means of identification SKU#	0620		
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	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	Danger		
Hazard statement	Highly flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation.		
Precautionary statement			
Prevention	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid breathing mist/vapours. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing should 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. 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	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.
Supplemental information	None.
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.

3. Composition/information on ingredients

Mixtures			
Chemical name	Common name and synonyms	CAS number	%
Methyl methacrylate		80-62-6	50 - < 60
Benzyl 3-isobutyryloxy-1-isopropyl-2,2-din ethylpropyl Phthalate	1	16883-83-3	5 - < 10
Titanium dioxide	Titanium dioxide	13463-67-7	3 - < 5
DODECANE-1-THIOL		112-55-0	< 1
Other components below reportab	le levels		30 - < 40

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

4. First-aid measures

4. Filst-alu measules	
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. 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 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 fumes. Move containers from fire area if you can do so without risk.
Specific methods General fire hazards	Use standard firefighting procedures and consider the hazards of other involved materials. Highly flammable liquid and vapour.

6. Accidental release measures

	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/vapours. 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/vapours. 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

US. ACGIH Threshold Limit Values Components	Туре	Value	Form
DODECANE-1-THIOL (CAS 112-55-0)	TWA	0.1 ppm	
Methyl methacrylate (CAS 80-62-6)	STEL	100 ppm	
	TWA	50 ppm	
Titanium dioxide (CAS 13463-67-7)	TWA	2.5 mg/m3	Respirable finescale particles
		0.2 mg/m3	Respirable nanoscale particles

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended
 ComponentsTypeValueDODECANE-1-THIOL (CASTWA0.8 mg/m3112-55-0)0.1 ppmMethyl methacrylate (CASSTEL410 mg/m380-62-6)100 ppm

		100 ppm	
	TWA	205 mg/m3	
		50 ppm	
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	

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

Components	Туре	Value	Form
DODECANE-1-THIOL (CAS 112-55-0)	TWA	0.1 ppm	
Methyl methacrylate (CAS 80-62-6)	STEL	100 ppm	
	TWA	50 ppm	
Titanium dioxide (CAS 13463-67-7)	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Total dust.

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

Components	Туре	Value	Form
DODECANE-1-THIOL (CAS 112-55-0)	TWA	0.1 ppm	
Methyl methacrylate (CAS 80-62-6)	STEL	100 ppm	
	TWA	50 ppm	
Titanium dioxide (CAS 13463-67-7)	TWA	2.5 mg/m3	Respirable finescale particles
		0.2 mg/m3	Respirable nanoscale particles

Canada. New Brunswick OELs: Threshold Limit Values (TLVs) Based on the 1991 and 1997 ACGIH TLVs and BEIs Publication (New Brunswick Regulation 91-191)

Components	Туре	Value	
Methyl methacrylate (CAS 80-62-6)	TWA	410 mg/m3	
		100 ppm	
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	
Canada. Ontario OELs. (Control of	Exposure to Biological or Cl	nemical Agents), as amended	
•		C <i>I</i>	
Components	Туре	Value	
DODECANE-1-THIOL (CAS	Type TWA	Value 0.1 ppm	
Components DODECANE-1-THIOL (CAS 112-55-0) Methyl methacrylate (CAS 80-62-6)			
DODECANE-1-THIOL (CAS 112-55-0) Methyl methacrylate (CAS	TWA	0.1 ppm	

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

Components	Туре	Value	Form	
Methyl methacrylate (CAS 80-62-6)	STEL	100 ppm		
	TWA	50 ppm		
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	Total dust.	

Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended

Components	Туре	Value
DODECANE-1-THIOL (CAS 112-55-0)	15 minute	0.3 ppm
	8 hour	0.1 ppm
Methyl methacrylate (CAS 80-62-6)	15 minute	100 ppm
	8 hour	50 ppm
Titanium dioxide (CAS 13463-67-7)	15 minute	20 mg/m3
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.	
-	such as personal protective equipme	
Eye/face protection	Chemical respirator with organic vapou	ir cartridge and full facepiece.
Skin protection Hand protection	Wear appropriate chemical resistant gl	oves.
Other	Wear appropriate chemical resistant cl	othing.
Respiratory protection	Chemical respirator with organic vapou	r cartridge and full facepiece.
Thermal hazards	Wear appropriate thermal protective cle	othing, when necessary.
General hygiene considerations	When using do not smoke. Always observe good personal hygiene measures, such as washin after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing shoul be allowed out of the workplace.	

9. Physical and chemical properties

	• •
Appearance	Paste.
Physical state	Liquid.
Form	Paste.
Colour	Not available.
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
Explosive limit - lower (%)	1.7 %
Explosive limit – upper (%)	12.5 %
Vapour pressure	28 mm Hg

Material name: PLEXUS® MA530 White Activator

Vapour density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	435 °C (815 °F) estimated
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	0.94 g/cm3 estimated
Explosive properties	Not explosive.
Flammability class	Flammable IB estimated
Oxidising properties	Not oxidising.
Specific gravity	0.94 estimated

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 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 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

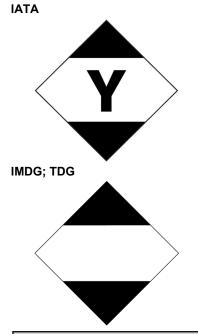
Acute toxicity	Not known.			
Components	Species	Test Results		
DODECANE-1-THIOL (C	CAS 112-55-0)			
Acute				
Oral				
LD50	Mouse	316 mg/kg		
Methyl methacrylate (CA	Methyl methacrylate (CAS 80-62-6)			
Acute				
Oral				
LD50	Rat	7800 mg/kg		
Titanium dioxide (CAS 13	3463-67-7)			
<u>Acute</u>				
Dermal				
LD50	Hamster	>= 10000 mg/kg		

	Species	Test Results
Oral LD50	Rat	> 10000 mg/kg
Skin corrosion/irritation		- 10000 mg/kg
Skin corrosion/irritation Serious eye damage/eye	Causes skin irritation. Causes serious eye irritation.	
irritation	Causes serious eye initation.	
Respiratory or skin sensitisation		
ACGIH sensitisation		
Dodecyl mercaptan (CAS Methyl methacrylate (CAS Canada - Alberta OELs: Irrita	80-62-6)	Dermal sensitisation Dermal sensitisation
DODECANE-1-THIOL (CA Titanium dioxide (CAS 134	463-67-7)	Irritant Irritant
Canada - Manitoba OELs Haz		Demost even the sting
DODECANE-1-THIOL (CA Methyl methacrylate (CAS	80-62-6)	Dermal sensitisation Dermal sensitisation
Canada - Quebec OELs: Sen		
Methyl methacrylate (CAS Canada - Saskatchewan OEL		Sensitiser.
DODECANE-1-THIOL (CA	AS 112-55-0)	Sensitiser.
Methyl methacrylate (CAS		Sensitiser.
Respiratory sensitisation	Not a respiratory sensitiser.	
Skin sensitisation	May cause an allergic skin rea	ction.
Germ cell mutagenicity	No data available to indicate p mutagenic or genotoxic.	roduct or any components present at greater than 0.1% are
Carcinogenicity		
ACGIH Carcinogens		
Methyl methacrylate (CAS Titanium dioxide (CAS 134		A4 Not classifiable as a human carcinogen. A3 Confirmed animal carcinogen with unknown relevance to humans.
Canada - Manitoba OELs: ca	rcinogenicity	
Methyl methacrylate (CAS Titanium dioxide (CAS 134	463-67-7)	Not classifiable as a human carcinogen. Confirmed animal carcinogen with unknown relevance to humans.
IARC Monographs. Overall E	• •	2 Nat alassifiable as to corsing ganisity to humans
Methyl methacrylate (CAS Titanium dioxide (CAS 134		3 Not classifiable as to carcinogenicity to humans.2B Possibly carcinogenic to humans.
Reproductive toxicity	This product is not expected to	o cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	May cause respiratory irritation	٦.
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not an aspiration hazard.	
Chronic effects	Prolonged inhalation may be h	armful.
12. Ecological information	I	
Ecotoxicity		s environmentally hazardous. However, this does not exclude the nt spills can have a harmful or damaging effect on the environment.
Persistence and degradability	No data is available on the de	gradability of any ingredients in the mixture.
Bioaccumulative potential		
Partition coefficient n-octand	ol / water (log Kow)	6.18
DODECANE-1-THIOL Methyl methacrylate		1.38
Methyl methacrylate	No data available.	1.38

13. Disposal considerations **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. The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code disposal company. Waste from residues / unused Dispose of in accordance with local regulations. Empty containers or liners may retain some products 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

TD	G	
	UN number	UN1133
	UN proper shipping name	ADHESIVES containing flammable liquid, Limited Quantity
	Transport hazard class(es)	
	Class	3
	Subsidiary risk	-
	Packing group	111
	Environmental hazards	No.
	Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
ΙΑΤ	Α	
	UN number	UN1133
	UN proper shipping name	Adhesives containing flammable liquid, Limited Quantity
	Transport hazard class(es)	
	Class	3
	Subsidiary risk	-
	Packing group	III
	Environmental hazards	No.
	ERG Code	3L
	Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
	Other information	
	Passenger and cargo	Allowed with restrictions.
	aircraft	
	Cargo aircraft only	Allowed with restrictions.
IME)G	
	UN number	UN1133
	UN proper shipping name	ADHESIVES containing flammable liquid, Limited Quantity
	Transport hazard class(es)	
	Class	3
	Subsidiary risk	-
	Packing group	III
	Environmental hazards	
	Marine pollutant	No.
	EmS	F-E, S-D
		Read safety instructions, SDS and emergency procedures before handling.
	nsport in bulk according to	Not established.
	nex II of MARPOL 73/78 and	
tne	IBC Code	



15. Regulatory information

Canadian regulations	This product has been classified in accordance with the hazard crite contains all the information required by the HPR.	ria of the HPR and the SDS
Controlled Drugs and Su	ibstances Act	
Not regulated.		
Export Control List (CEP	A 1999, Schedule 3)	
Not listed.		
Greenhouse Gases		
Not listed.		
Precursor Control Regul	ations	
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 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)	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

Country(s) or region	Inventory name On inventory	(yes/no)*
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	16-December-2019
Revision date	16-July-2023
Version No.	04
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	Composition / Information on Ingredients: Ingredients