# SAFETY DATA SHEET

1. Identification			
Product identifier	PLEXUS® MA2245 Adhesive		
Other means of identification SKU#	0747		
Recommended use	Not available.		
<b>Recommended restrictions</b>	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 1	
	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 skin irritation. May cause an allergic skin reaction. Causes serious eye damage. 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 dust/fume/gas/mist/vapours/spray. 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. Immediately call a POISON CENTRE/doctor. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use appropriate media to extinguish.		

### 3. Composition/information on ingredients

**Mixtures** 

Chemical name	Common name and synonyms	CAS number	%
Methyl methacrylate		80-62-6	30 - 60
Polyvinyl acetate		N/A	15 - 40
Benzyl 3-isobutyryloxy-1-isopropyl-2,2-dim ethylpropyl Phthalate		16883-83-3	3 - 7
Methacrylic acid		79-41-4	1 - 5
STYRENE, ISOPRENE COPOLYMER		25038-32-8	1 - 5
TRIMETHYLOLPROPANE TRIMETHACRYLATE		3290-92-4	1 - <3
2-(N,N-DIETHYLAMINO)ETHYL METHACRYLATE		105-16-8	0.1 - 1
M-TOLYLDIETHANOLAMINE		91-99-6	0.1 - 1
Other components below reportable levels			15 - 40

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 immediately.	
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. Permanent eye damage including blindness could result. May cause respiratory irritation. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.	
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	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.	

Special protective equipment and precautions for firefighters

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 vapour.	
6. Accidental release mea	sures	
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.	
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools.	
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.	
	Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.	
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS	
Environmental precautions	Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.	
7. Handling and storage		
Precautions for safe handling	Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not get this materi in contact with eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with eyes, skin, and clothing. 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/pers		

US. ACGIH Threshold Limit Values			
Components	Туре	Value	
METHACRYLIC ACID (CAS 79-41-4)	TWA	20 ppm	
METHYL METHACRYLATE (CAS 80-62-6)	STEL	100 ppm	

Components	Туре	Value
	TWA	50 ppm
Canada. Alberta OELs (Occupation	nal Health & Safety Code, Sche	dule 1, Table 2)
Components	Туре	Value
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
Canada. British Columbia OELs. (( Safety Regulation 296/97, as amen		for Chemical Substances, Occupational Health and
Components	Туре	Value
METHACRYLIC ACID (CAS 79-41-4)	TWA	20 ppm
METHYL METHACRYLATE (CAS 80-62-6)	STEL	100 ppm
	TWA	50 ppm
Canada. Manitoba OELs (Reg. 217 Components	/2006, The Workplace Safety A Type	nd Health Act) Value
METHACRYLIC ACID (CAS 79-41-4)	TWA	20 ppm
METHYL METHACRYLATE (CAS 80-62-6)	STEL	100 ppm
· /	TWA	50 ppm
Canada. Ontario OELs. (Control of		
Components	Туре	Value
METHACRYLIC ACID (CAS 79-41-4)	TWA	20 ppm
METHYL METHACRYLATE (CAS 80-62-6)	STEL	100 ppm
	TWA	50 ppm
Canada. Quebec OELs. (Ministry o Components	f Labor - Regulation respecting Type	g occupational health and safety) Value
METHACRYLIC ACID (CAS 79-41-4)	TWA	70 mg/m3
- '/		20 ppm
METHYL METHACRYLATE (CAS 80-62-6)	TWA	205 mg/m3
· · ·		50 ppm
Canada. Saskatchewan OELs (Oco Components	cupational Health and Safety Re Type	egulations, 1996, Table 21) Value
METHACRYLIC ACID (CAS	15 minute	30 ppm

Canada. Saskatchewan O Components	ELs (Occupational Health and Safety R Type	egulations, 1996, Table 21) Value
	8 hour	50 ppm
Biological limit values	No biological exposure limits noted fo	r the ingredient(s).
Exposure guidelines	Occupational Exposure Limits are not	t relevant to the current physical form of the product.
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 measure	s, such as personal protective equipm	ent
Eye/face protection	Wear safety glasses with side shields (or goggles) and a face shield.	
Skin protection		
Hand protection	Wear appropriate chemical resistant gloves.	
Other	Wear appropriate chemical resistant clothing.	
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.	
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.	
General hygiene considerations	after handling the material and before	oserve good personal hygiene measures, such as washing e eating, drinking, and/or smoking. Routinely wash work remove contaminants. Contaminated work clothing should no

# 9. Physical and chemical properties

or rigoroar and orionitoar	•
Appearance	Paste.
Physical state	Not available.
Form	Paste.
Colour	Tan.
Odour	No data reported
Odour threshold	Not available.
рН	5 - 6
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 available.
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.
Vapour pressure	45.25 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	Not available.

Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	0.97 g/cm3
Explosive properties	Not explosive.
Flammability class	Flammable IB estimated
<b>Oxidising properties</b>	Not oxidising.
Specific gravity	0.97
10. Stability and reactivit	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 polymerisation does not occur.	
Conditions to avoid	Keep away from heat, hot surfaces, 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.	
Skin contact	Causes skin irritation. May cause an allergic skin reaction.	
Eye contact	Causes serious eye damage.	
Ingestion	Expected to be a low ingestion hazard.	
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.	

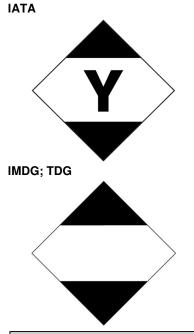
### Information on toxicological effects

Acute toxicity	Not known.		
Components	Species	Test Results	
Methyl methacrylate (CAS 80-	62-6)		
<u>Acute</u>			
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 damage.		
Respiratory or skin sensitisa	ation		
ACGIH sensitisation			
Methyl methacrylate (CAS 80-62-6) Canada - Alberta OELs: Irritant		Dermal sensitization	
Methacrylic acid (CAS 79-41-4)		Irritant	
•	bia OELs: Respiratory or skin sen	sitiser	
Methyl methacrylate (CAS 80-62-6)		Capable of causing respiratory, dermal or conjunctival sensitization.	
Canada - Manitoba OELs Hazard: Dermal sensitization			
Methyl methacrylate (CAS 80-62-6)		Dermal sensitization	
Canada - Quebec OELs:	Sensitizer		
Methyl methacrylate	(CAS 80-62-6)	Sensitiser.	

Canada - Saskatchewan OEI	s Hazard Data: Sensitiser	
Methyl methacrylate (CAS		Sensitiser.
Respiratory sensitisation	Not a respiratory sensitizer.	
Skin sensitisation	May cause an allergic skin rea	ction
Germ cell mutagenicity		roduct or any components present at greater than 0.1% are
Carcinogenicity	0 0	
ACGIH Carcinogens		
Methyl methacrylate (CAS Canada - Manitoba OELs: ca		A4 Not classifiable as a human carcinogen.
Methyl methacrylate (CAS IARC Monographs. Overall E	80-62-6)	Not classifiable as a human carcinogen.
Methyl methacrylate (CAS	8 80-62-6)	3 Not classifiable as to carcinogenicity to humans.
Reproductive toxicity	This product is not expected to	cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	May cause respiratory irritation	۱.
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not an aspiration hazard.	
12. Ecological information	1	
Ecotoxicity	possibility that large or frequer	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-octane Methacrylic acid Methyl methacrylate	ol / water (log Kow)	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 consideration	าร	
Disposal instructions		in sealed containers at licensed waste disposal site. Dispose of new with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.	
Hazardous waste code	The waste code should be ass disposal company.	igned in discussion between the user, the producer and the waste
Waste from residues / unused products		local regulations. Empty containers or liners may retain some I and its container must be disposed of in a safe manner (see:
Contaminated packaging		retain product residue, follow label warnings even after container is ould be taken to an approved waste handling site for recycling or
14. Transport information		
TDG		
UN number UN proper shipping name Transport hazard class(es)	UN1133 ADHESIVES containing flamm	able liquid, Limited Quantity
Class Subsidiary risk	3	
Packing group	III	
Environmental hazards	Not available.	
· ·	· Read safety instructions, SDS	and emergency procedures before handling.
ΙΑΤΑ		
UN number UN proper shipping name	UN1133 Adhesives containing flammat	ole liquid, Limited Quantity
Material name: PLEXUS® MA2245 Ad	lhesive	SDS CANADA

Transport hazard class(es)	
Class	3
Subsidiary risk	-
Packing group	
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.
IMDG	
UN number	UN1133
UN proper shipping name	ADHESIVES containing flammable liquid, Limited Quantity
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Packing group	
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. Not applicable.
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. Montreal Protocol Not applicable. Basel Convention Not applicable. International Inventories Country(s) or region Australia Australia Australia Non-Domestic Substances List (DSL) Canada Non-Domestic Substances List (NDSL) China Inventory of Existing Chemical Substances in China (IECSC) Europe European Inventory of Existing Commercial Chemical Substances (ELINCS) Japan Inventory of Existing and New Chemical Substances (ELINCS) Japan Inventory of Existing and New Chemical Substances (ELINCS)

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
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)	No
New Zealand	New Zealand Inventory	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 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

product, or the products of other manufacturers in combination with its product, may be the user's responsibility to ensure safe conditions for handling, storage and disposal of product, and to assume liability for loss, injury, damage or expense due to improper us information provided in this Safety Data Sheet is correct to the best of our knowledge, i and belief at the date of its publication. The information relates only to the specific mate designated and may not be valid for such material used in combination with any other r in any process, unless specified in the text. The information given is designed only as a for safe handling, use, processing, storage, transportation, disposal and release.Revision informationComposition / Information on Ingredients: Undisclosed Ingredient Statement		
Version No.02DisclaimerITW Performance Polymers cannot anticipate all conditions under which this information product, or the products of other manufacturers in combination with its product, may be the user's responsibility to ensure safe conditions for handling, storage and disposal of product, and to assume liability for loss, injury, damage or expense due to improper us information provided in this Safety Data Sheet is correct to the best of our knowledge, i and belief at the date of its publication. The information relates only to the specific mate designated and may not be valid for such material used in combination with any other r in any process, unless specified in the text. The information given is designed only as a for safe handling, use, processing, storage, transportation, disposal and release.Revision informationComposition / Information on Ingredients: Undisclosed Ingredient Statement	date	26-April-2019
DisclaimerITW Performance Polymers cannot anticipate all conditions under which this information product, or the products of other manufacturers in combination with its product, may be the user's responsibility to ensure safe conditions for handling, storage and disposal of product, and to assume liability for loss, injury, damage or expense due to improper us information provided in this Safety Data Sheet is correct to the best of our knowledge, i and belief at the date of its publication. The information relates only to the specific mate designated and may not be valid for such material used in combination with any other r in any process, unless specified in the text. The information given is designed only as a for safe handling, use, processing, storage, transportation, disposal and release.Revision informationComposition / Information on Ingredients: Undisclosed Ingredient Statement	sion date	26-April-2019
<ul> <li>product, or the products of other manufacturers in combination with its product, may be the user's responsibility to ensure safe conditions for handling, storage and disposal of product, and to assume liability for loss, injury, damage or expense due to improper us information provided in this Safety Data Sheet is correct to the best of our knowledge, i and belief at the date of its publication. The information relates only to the specific mate designated and may not be valid for such material used in combination with any other r in any process, unless specified in the text. The information given is designed only as a for safe handling, use, processing, storage, transportation, disposal and release.</li> <li>Revision information</li> </ul>	on No.	02
	aimer	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.
Physical & Chemical Properties: Multiple Properties	sion information	Composition / Information on Ingredients: Undisclosed Ingredient Statement Physical & Chemical Properties: Multiple Properties

# SAFETY DATA SHEET

1. Identification		
Product identifier	PLEXUS® MA2230/2245/2260/2290 EU Blue	Activator
Other means of identification	- 227000 MAZZJU/224J/2200/2230 EU DIUU	
SKU#	0691K	
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 containe	er tightly closed. Store locked up.
Disposal	Dispose of contents/container in accordance v	with local/regional/national/international regulations.
Other hazards	None known.	
Supplemental information	None.	

### 3. Composition/information on ingredients

lixtures			
Chemical name	Common name and synonyms	CAS number	%
Benzyl 3-isobutyryloxy-1-isopropyl-2,2-dim ethylpropyl Phthalate		16883-83-3	15 - 40
DIBUTYL MALEATE		105-76-0	15 - 40
BENZOYL PEROXIDE		94-36-0	5 - 10
ISODECYL BENZOATE		131298-44-7	1 - 5
Oxirane, methyl-, polymer with oxirane, monobutyl ether		9038-95-3	1 - 5
ZINC STEARATE		557-05-1	0.5 - 1.5
Other components below reportable	elevels		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. 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 mea	sures

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.
7. Handling and storage	
Precautions for safe handling	Avoid breathing mist/vapours. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store locked up. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

### 8. Exposure controls/personal protection

### Occupational exposure limits

US. ACGIH Threshold Limit Valu Components	Туре	Value	Form
BENZOYL PEROXIDE (CAS 94-36-0)	TWA	5 mg/m3	
ZINC STEARATE (CAS 557-05-1)	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
Canada. Alberta OELs (Occupat	•	· · ·	
Components	Туре	Value	
BENZOYL PEROXIDE (CAS 94-36-0)	TWA	5 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
BENZOYL PEROXIDE (CAS 94-36-0)	TWA	5 mg/m3	
ZINC STEARATE (CAS 557-05-1)	STEL	20 mg/m3	Total dust.
	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Total dust.

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

Components	Туре	Value	Form
BENZOYL PEROXIDE (CAS 94-36-0)	TWA	5 mg/m3	
ZINC STEARATE (CAS 557-05-1)	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
Canada. Ontario OELs. (Control	of Exposure to Biological or C	hemical Agents)	
Components	Туре	Value	
BENZOYL PEROXIDE (CAS 94-36-0)	TWA	5 mg/m3	
ZINC STEARATE (CAS	TWA	10 mg/m3	

557-05-1)

Components	Туре	Value
BENZOYL PEROXIDE (CAS 94-36-0)	TWA	5 mg/m3
ZINC STEARATE (CAS 557-05-1)	TWA	10 mg/m3
Canada. Saskatchewan O	ELs (Occupational Health and Safety R	egulations, 1996, Table 21)
Components	Туре	Value
BENZOYL PEROXIDE (CAS 94-36-0)	15 minute	10 mg/m3
	8 hour	5 mg/m3
ZINC STEARATE (CAS 557-05-1)	15 minute	20 mg/m3
	8 hour	10 mg/m3
ological limit values	No biological exposure limits noted fo	r the ingredient(s).
propriate engineering htrols	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.	
lividual protection measure	s, such as personal protective equipm	
Eye/face protection	Chemical respirator with organic vapo	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 vapour cartridge and full facepiece.	
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.	
neral hygiene nsiderations	and before eating, drinking, and/or sn	ne measures, such as washing after handling the materia noking. Routinely wash work clothing and protective Contaminated work clothing should not be allowed out of

# 9. Physical and chemical properties

	•
Appearance	Liquid.
Physical state	Liquid.
Form	Liquid.
Colour	Blue.
Odour	Mild.
Odour threshold	Not available.
рН	Not available.
Melting point/freezing point	103 °C (217.4 °F) estimated
Initial boiling point and boiling range	Not available.
Flash point	141.0 °C (285.8 °F) estimated
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	0.5 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	80 °C (176 °F) estimated
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	1.16 g/cm3 estimated
Explosive properties	Not explosive.
Flammability class	Combustible IIIB estimated
Oxidising properties	Not oxidising.
Specific gravity	1.16 estimated
10. Stability and reactivit	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

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

<b>J</b>		
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	l.
Ingestion	Expected to be a low ingestic	on 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 eff	fects	
Acute toxicity	Not known.	
Components	Species	Test Results
BENZOYL PEROXIDE (CAS 94-3	36-0)	
<u>Acute</u>		
Oral		
LD50	Rat	7710 mg/kg
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	Causes serious eye irritation	l.
Respiratory or skin sensitisatio	n	
Canada - Alberta OELs: Irri	tant	
BENZOYL PEROXIDE ( ZINC STEARATE (CAS	,	Irritant Irritant
Respiratory sensitisation	Not a respiratory sensitizer.	
Skin sensitisation	May cause an allergic skin re	eaction.

Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity		
ACGIH Carcinogens		
BENZOYL PEROXIDE (CAS 94-36-0) ZINC STEARATE (CAS 557-05-1) Canada - Manitoba OELs: carcinogenicity		A4 Not classifiable as a human carcinogen. A4 Not classifiable as a human carcinogen.
BENZOYL PEROXIDE (CAS 94-36-0) ZINC STEARATE (CAS 557-05-1) IARC Monographs. Overall Evaluation of Carcinogenicity		Not classifiable as a human carcinogen. Not classifiable as a human carcinogen.
BENZOYL PEROXIDE (C	• •	3 Not classifiable as to carcinogenicity to humans.
Reproductive toxicity	·	o cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	May cause respiratory irritation.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not an aspiration hazard.	
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		tal effects (e.g. ozone depletion, photochemical ozone creation , global warming potential) are expected from this component.
13. Disposal consideration	ns	
Disposal instructions		e in sealed containers at licensed waste disposal site. Dispose of new with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.	
Hazardous waste code	disposal company.	signed in discussion between the user, the producer and the waste
Waste from residues / unused products	product residues. This materia Disposal instructions).	local regulations. Empty containers or liners may retain some al and its container must be disposed of in a safe manner (see:
Contaminated packaging		retain product residue, follow label warnings even after container is ould be taken to an approved waste handling site for recycling or
14. Transport information		

### TDG

Not regulated as dangerous goods.

### ΙΑΤΑ

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 Sub	stances Act	
Not regulated.		
Export Control List (CEPA	1999, Schedule 3)	
Not listed.		
Greenhouse Gases		
Not listed.		
Ontario. Toxic Substances	. Toxic Reduction Act, 2009. Regulation 455/09 (July 1, 2011)	
ZINC STEARATE (CAS		
Precursor Control Regulat	ions	
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		Yes
*A "Yes" indicates that all comp	onents 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-May-2019
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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.