# SAFETY DATA SHEET

## 1. Identification

**Product identifier** PLEXUS® MA590 Adhesive

Other means of identification

0530 SKU#

Recommended use Not available. Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information **ITW Performance Polymers** Company name

**Address** 35 Brownridge Rd

Unit 1

Halton Hills, ON L7G 0C6

**Customer Service Contact person** 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 Category 3 respiratory tract irritation

Specific target organ toxicity following single

exposure

**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. Harmful if inhaled. 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. 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 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 None known.

Supplemental information None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Methyl methacrylate		80-62-6	30 - 60
Lauryl methacrylate		142-90-5	7 - 13
Poly(2-chloro-1,3-butadiene)		9010-98-4	5 - 10
POLY(OXY-1,2-ETHANEDIYL), .ALPHA(2- METHYL-1-OXO-2-PROPENYL)O MEGAMETHOXY-		26915-72-0	3 - 7
BUTYLATED HYDROXYTOLUENE (BHT)		128-37-0	1 - 5
HEXADECYL METHACRYLATE		2495-27-4	1 - 5
Maleic acid		110-16-7	1 - 5
TERT-BUTYL PERBENZOATE		614-45-9	0.5 - 1.5
TETRADECYL METHACRYLATE		2549-53-3	0.5 - 1.5
Ethylene glycol		107-21-1	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. 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

**General information** 

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.

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.

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# 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

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.

# **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. 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. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National Fire Protection Association (NFPA) 70, "National Electrical Code".

# Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

# Occupational exposure limits

Componento	Type	Value	Form
Components	Туре		
BUTYLATED HYDROXYTOLUENE (BHT) CAS 128-37-0)	TWA	2 mg/m3	Inhalable fraction and vapor.
ETHYLENE GLYCOL (CAS 107-21-1)	STEL	10 mg/m3	Aerosol, inhalable.
		50 ppm	Vapor fraction
	TWA	25 ppm	Vapor fraction
METHYL METHACRYLATE CAS 80-62-6)	STEL	100 ppm	
	TWA	50 ppm	
Canada. Alberta OELs (Occupation	_		
Components	Туре	Value	
BUTYLATED HYDROXYTOLUENE (BHT) (CAS 128-37-0)	TWA	10 mg/m3	
ETHYLENE GLYCOL (CAS 107-21-1)	Ceiling	100 mg/m3	
METHYL METHACRYLATE (CAS 80-62-6)	STEL	410 mg/m3	
		100 ppm	
	TWA	205 mg/m3	
		50 ppm	
		s for Chemical Substances, C	occupational Health and
Safety Regulation 296/97, as amen	ded)		•
Safety Regulation 296/97, as amen Components	ded) Type	Value	Form
Safety Regulation 296/97, as amen Components BUTYLATED HYDROXYTOLUENE (BHT)	ded)		•
Safety Regulation 296/97, as amen Components BUTYLATED HYDROXYTOLUENE (BHT) CAS 128-37-0) ETHYLENE GLYCOL (CAS	ded) Type	Value	Form Vapor and aerosol,
Safety Regulation 296/97, as amen Components BUTYLATED HYDROXYTOLUENE (BHT) CAS 128-37-0) ETHYLENE GLYCOL (CAS	Type TWA	Value 2 mg/m3	Form  Vapor and aerosol, inhalable.
Safety Regulation 296/97, as amen Components BUTYLATED HYDROXYTOLUENE (BHT) (CAS 128-37-0) ETHYLENE GLYCOL (CAS	Type TWA	<b>Value</b> 2 mg/m3 100 mg/m3	Form  Vapor and aerosol, inhalable.  Aerosol
Safety Regulation 296/97, as amen Components BUTYLATED HYDROXYTOLUENE (BHT) (CAS 128-37-0) ETHYLENE GLYCOL (CAS	Type TWA Ceiling	<b>Value</b> 2 mg/m3 100 mg/m3 50 ppm	Form  Vapor and aerosol, inhalable.  Aerosol  Vapour.
Safety Regulation 296/97, as amen Components  BUTYLATED HYDROXYTOLUENE (BHT) (CAS 128-37-0) ETHYLENE GLYCOL (CAS 107-21-1)  METHYL METHACRYLATE	Type TWA Ceiling	Value 2 mg/m3 100 mg/m3 50 ppm 20 mg/m3	Form  Vapor and aerosol, inhalable.  Aerosol  Vapour.  Particulate.
Safety Regulation 296/97, as amen Components BUTYLATED HYDROXYTOLUENE (BHT) (CAS 128-37-0) ETHYLENE GLYCOL (CAS 107-21-1)  METHYL METHACRYLATE	Type TWA Ceiling STEL TWA	Value 2 mg/m3 100 mg/m3 50 ppm 20 mg/m3 10 mg/m3	Form  Vapor and aerosol, inhalable.  Aerosol  Vapour.  Particulate.
Safety Regulation 296/97, as amen Components  BUTYLATED HYDROXYTOLUENE (BHT) (CAS 128-37-0)  ETHYLENE GLYCOL (CAS 107-21-1)  METHYL METHACRYLATE (CAS 80-62-6)	Type TWA Ceiling STEL TWA STEL TWA STEL TWA	Value 2 mg/m3 100 mg/m3 50 ppm 20 mg/m3 10 mg/m3 100 ppm 50 ppm	Form  Vapor and aerosol, inhalable.  Aerosol  Vapour.  Particulate.
Canada. British Columbia OELs. (Cafety Regulation 296/97, as amen Components  BUTYLATED HYDROXYTOLUENE (BHT) (CAS 128-37-0) ETHYLENE GLYCOL (CAS 107-21-1)  METHYL METHACRYLATE (CAS 80-62-6)  Canada. Manitoba OELs (Reg. 217/Components	Type TWA Ceiling STEL TWA STEL TWA STEL TWA	Value 2 mg/m3 100 mg/m3 50 ppm 20 mg/m3 10 mg/m3 100 ppm 50 ppm	Form  Vapor and aerosol, inhalable.  Aerosol  Vapour.  Particulate.
Safety Regulation 296/97, as amen Components  BUTYLATED HYDROXYTOLUENE (BHT) (CAS 128-37-0) ETHYLENE GLYCOL (CAS 107-21-1)  METHYL METHACRYLATE (CAS 80-62-6)  Canada. Manitoba OELs (Reg. 217/Components  BUTYLATED HYDROXYTOLUENE (BHT)	Type TWA Ceiling STEL TWA STEL TWA STEL TWA 72006, The Workplace Safety A	Value 2 mg/m3  100 mg/m3  50 ppm 20 mg/m3 10 mg/m3 100 ppm 50 ppm	Form  Vapor and aerosol, inhalable.  Aerosol  Vapour.  Particulate.  Particulate.
Safety Regulation 296/97, as amen Components  BUTYLATED HYDROXYTOLUENE (BHT) (CAS 128-37-0) ETHYLENE GLYCOL (CAS 107-21-1)  METHYL METHACRYLATE (CAS 80-62-6)  Canada. Manitoba OELs (Reg. 217/Components  BUTYLATED HYDROXYTOLUENE (BHT) (CAS 128-37-0) ETHYLENE GLYCOL (CAS	Type TWA  Ceiling  STEL TWA  STEL TWA  STEL TWA  STEL TWA  Type	Value 2 mg/m3  100 mg/m3  50 ppm 20 mg/m3 10 mg/m3 100 ppm  50 ppm  And Health Act) Value	Form  Vapor and aerosol, inhalable.  Aerosol  Vapour.  Particulate.  Particulate.  Form  Inhalable fraction and
Safety Regulation 296/97, as amen Components  BUTYLATED HYDROXYTOLUENE (BHT) (CAS 128-37-0) ETHYLENE GLYCOL (CAS 107-21-1)  METHYL METHACRYLATE (CAS 80-62-6)  Canada. Manitoba OELs (Reg. 217/Components  BUTYLATED HYDROXYTOLUENE (BHT) (CAS 128-37-0) ETHYLENE GLYCOL (CAS	Type TWA Ceiling STEL TWA STEL TWA STEL TWA TWA TWA Type TWA	Value 2 mg/m3  100 mg/m3  50 ppm 20 mg/m3 10 mg/m3 100 ppm  50 ppm  And Health Act) Value 2 mg/m3	Form  Vapor and aerosol, inhalable.  Aerosol  Vapour.  Particulate.  Particulate.  Form  Inhalable fraction and vapor.
Safety Regulation 296/97, as amen Components  BUTYLATED HYDROXYTOLUENE (BHT) (CAS 128-37-0)  ETHYLENE GLYCOL (CAS 107-21-1)  METHYL METHACRYLATE (CAS 80-62-6)  Canada. Manitoba OELs (Reg. 217/Components  BUTYLATED	Type TWA Ceiling STEL TWA STEL TWA STEL TWA TWA TWA Type TWA	Value 2 mg/m3  100 mg/m3  50 ppm 20 mg/m3 10 mg/m3 100 ppm  50 ppm  And Health Act) Value 2 mg/m3  10 mg/m3	Form  Vapor and aerosol, inhalable.  Aerosol  Vapour.  Particulate.  Particulate.  Form  Inhalable fraction and vapor.  Aerosol, inhalable.
Safety Regulation 296/97, as amen Components  BUTYLATED HYDROXYTOLUENE (BHT) (CAS 128-37-0) ETHYLENE GLYCOL (CAS 107-21-1)  METHYL METHACRYLATE (CAS 80-62-6)  Canada. Manitoba OELs (Reg. 217/Components  BUTYLATED HYDROXYTOLUENE (BHT) (CAS 128-37-0) ETHYLENE GLYCOL (CAS	Type TWA  Ceiling  STEL TWA STEL TWA STEL TWA /2006, The Workplace Safety A Type TWA  STEL	Value 2 mg/m3  100 mg/m3  50 ppm 20 mg/m3 10 mg/m3 100 ppm  50 ppm  And Health Act) Value 2 mg/m3  10 mg/m3  50 ppm	Form  Vapor and aerosol, inhalable.  Aerosol  Vapour. Particulate. Particulate.  Form  Inhalable fraction and vapor.  Aerosol, inhalable.  Vapor fraction

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Components	Туре	Value	Form
BUTYLATED HYDROXYTOLUENE (BHT) (CAS 128-37-0)	TWA	2 mg/m3	Inhalable fraction and vapor.
ETHYLENE GLYCOL (CAS 107-21-1)	Ceiling	100 mg/m3	Aerosol
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 s Value	afety) Form
BUTYLATED HYDROXYTOLUENE (BHT) (CAS 128-37-0)	TWA	10 mg/m3	
ETHYLENE GLYCOL (CAS 107-21-1)	Ceiling	127 mg/m3	Vapor and mist.
		50 ppm	Vapor and mist.
METHYL METHACRYLATE (CAS 80-62-6)	TWA	205 mg/m3	
		50 ppm	
Canada. Saskatchewan OELs (Occ			_
Components	Туре	Value	Form
BUTYLATED HYDROXYTOLUENE (BHT) (CAS 128-37-0)	15 minute	4 mg/m3	Inhalable fraction and vapor.
	8 hour	2 mg/m3	Inhalable fraction and vapor.
ETHYLENE GLYCOL (CAS 107-21-1)	Ceiling	100 mg/m3	Aerosol

Components	Туре	Value	Form
BUTYLATED HYDROXYTOLUENE (BHT) (CAS 128-37-0)	15 minute	4 mg/m3	Inhalable fraction and vapor.
	8 hour	2 mg/m3	Inhalable fraction and vapor.
ETHYLENE GLYCOL (CAS 107-21-1)	Ceiling	100 mg/m3	Aerosol
METHYL METHACRYLATE (CAS 80-62-6)	15 minute	100 ppm	

No biological exposure limits noted for the ingredient(s). **Biological limit values** 

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.

50 ppm

Individual protection measures, such as personal protective equipment

Eye/face protection Chemical respirator with organic vapour cartridge and full facepiece.

8 hour

Skin protection

Wear appropriate chemical resistant gloves. Hand protection Other Wear appropriate chemical resistant clothing.

Chemical respirator with organic vapour cartridge and full facepiece. Respiratory protection

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

# 9. Physical and chemical properties

Paste. **Appearance** Liquid. Physical state Form Paste. Off-white. Colour

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5/10

Odour Fragrant
Odour threshold Not available.
pH Not available.

Melting point/freezing point -48 °C (-54.4 °F) estimated Initial boiling point and boiling 100.5 °C (212.9 °F) estimated

range

Flash point 10.0 °C (50.0 °F) estimated

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive 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 28 mm Hg @ 20 °C

Vapour density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

**Density** 0.97 g/cm3 estimated

**Explosive properties** Not explosive.

Flammability class Flammable IB estimated

Oxidising properties Not oxidising.

Specific gravity 0.97 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 Hazardous polymerisation does not occur.

reactions

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**No hazardous decomposition products are known.

products

### 11. Toxicological information

## Information on likely routes of exposure

**Inhalation** Harmful if inhaled.

**Skin contact** Causes skin irritation. May cause an allergic skin reaction.

**Eye contact** Causes serious eye irritation.

**Ingestion** Knowledge about health hazard is incomplete.

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Symptoms related to the physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

Acute toxicity Harmful if inhaled.

Components Species Test Results

BUTYLATED HYDROXYTOLUENE (BHT) (CAS 128-37-0)

Acute Oral

LD50 Rat 890 mg/kg

Ethylene glycol (CAS 107-21-1)

Acute Dermal

LD50 Rabbit 9530 mg/kg

Lauryl methacrylate (CAS 142-90-5)

Acute Oral

LD50 Rat > 5 g/kg

Maleic acid (CAS 110-16-7)

Acute Dermal

LD50 Rabbit 1560 mg/kg

Oral

LD50 Rat 708 mg/kg

Methyl methacrylate (CAS 80-62-6)

**Acute** 

Inhalation

LC50 Mouse 18.5 mg/l, 2 Hours

Oral

LD50 Rat 7800 mg/kg

**Skin corrosion/irritation** Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

#### Respiratory or skin sensitisation

**ACGIH** sensitisation

Methyl methacrylate (CAS 80-62-6)

Dermal sensitization

Canada - Alberta OELs: Irritant

BUTYLATED HYDROXYTOLUENE (BHT) Irritant

(CAS 128-37-0)

Ethylene glycol (CAS 107-21-1) Irritant

Canada - British Columbia OELs: Respiratory or skin sensitiser

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 OELs Hazard Data: Sensitiser

Methyl methacrylate (CAS 80-62-6) Sensitiser.

**Respiratory sensitisation** Due to partial or complete lack of data the classification is not possible.

**Skin sensitisation** May cause an allergic skin reaction.

**Germ cell mutagenicity**Due to partial or complete lack of data the classification is not possible. **Carcinogenicity**Due to partial or complete lack of data the classification is not possible.

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**ACGIH Carcinogens** 

BUTYLATED HYDROXYTOLUENE (BHT)

A4 Not classifiable as a human carcinogen.

(CAS 128-37-0)

Ethylene glycol (CAS 107-21-1)

Methyl methacrylate (CAS 80-62-6)

A4 Not classifiable as a human carcinogen.

A4 Not classifiable as a human carcinogen.

Canada - Manitoba OELs: carcinogenicity

BUTYLATED HYDROXYTOLUENE (BHT) Not classifiable as a human carcinogen.

(CAS 128-37-0)

Ethylene glycol (CAS 107-21-1)

Methyl methacrylate (CAS 80-62-6)

Not classifiable as a human carcinogen.

Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

**BUTYLATED HYDROXYTOLUENE (BHT)** 

(CAS 128-37-0)

3 Not classifiable as to carcinogenicity to humans.

Methyl methacrylate (CAS 80-62-6)

Poly(2-chloro-1,3-butadiene) (CAS 9010-98-4)

3 Not classifiable as to carcinogenicity to humans.

3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity -

single exposure

May cause respiratory irritation.

Specific target organ toxicity -

repeated exposure

Due to partial or complete lack of data the classification is not possible.

**Aspiration hazard**Due to partial or complete lack of data the classification is not possible.

**Chronic effects** Prolonged inhalation may be harmful.

# 12. Ecological information

**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-octanol / water (log Kow)

Ethylene glycol -1.36
Maleic acid -0.48
Methyl methacrylate 1.38

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 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.

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

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** Not available.

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

#### **IATA**

UN1133 **UN number** 

Adhesives containing flammable liquid, Limited Quantity UN proper shipping name

Transport hazard class(es)

Class 3 Subsidiary risk Ш Packing group **Environmental hazards** No. 3L **ERG Code** 

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

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only Allowed with restrictions.

**IMDG** 

UN1133 **UN number** 

ADHESIVES containing flammable liquid, Limited Quantity **UN proper shipping name** 

Not established.

Transport hazard class(es)

3 **Class** Subsidiary risk Ш **Packing group** 

**Environmental hazards** 

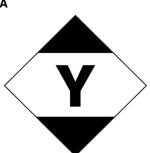
Marine pollutant No. **EmS** F-E. S-D

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

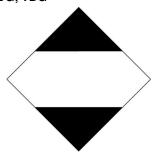
Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

**IATA** 



IMDG; TDG



# 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)	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

<sup>\*</sup>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).

Taiwan Chemical Substance Inventory (TCSI)

Toxic Substances Control Act (TSCA) Inventory

## 16. Other information

Taiwan

**Issue date** 19-June-2019 **Revision date** 06-May-2020

Version No. 02

United States & Puerto Rico

**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.

0530 Version #: 02 Revision date: 06-May-2020 Issue date: 19-June-2019

Yes

Yes

# SAFETY DATA SHEET

# 1. Identification

**Product identifier** PLEXUS® MA590 Activator

Other means of identification

0993 SKU#

Recommended use Not available. Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information **ITW Performance Polymers** Company name

**Address** 35 Brownridge Rd

Unit 1

Halton Hills, ON L7G 0C6

**Customer Service Contact person** 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 2B 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 eye irritation. Harmful if inhaled. 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. 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.

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IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF Response

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.

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

**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	%
Methyl methacrylate		80-62-6	40 - 70
Benzyl 3-isobutyryloxy-1-isopropyl-2,2-dim ethylpropyl Phthalate		16883-83-3	5 - 10
PYRIDINE, 3,5-DIETHYL-1,2-DIHYDRO-1-PHE NYL-2-P ROPYL-		34562-31-7	1 - 5
TRIS(2,4-DITERT-BUTYLPHENYL) PHOSPHITE		31570-04-4	0.5 - 1.5
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. 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.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Rinse mouth. Get medical attention if symptoms occur. Ingestion

Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. May Most important

cause respiratory irritation. Skin irritation. May cause redness and pain. May cause an allergic skin symptoms/effects, acute and delayed

reaction. Dermatitis. Rash.

Indication of immediate 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 medical attention and special ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under treatment needed observation. Symptoms may be delayed.

Take off all contaminated clothing immediately. If you feel unwell, seek medical advice (show the **General information** 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

Specific hazards arising from

the chemical

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 Do not use water jet as an extinguisher, as this will spread the fire.

media

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

Fire fighting equipment/instructions

Specific methods
General fire hazards

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials.

Highly flammable liquid and vapour.

### 6. Accidental release measures

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.

**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. 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. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National Fire Protection Association (NFPA) 70, "National Electrical Code".

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

#### Occupational exposure limits

**US. ACGIH Threshold Limit Values** 

Components	Туре	Value
METHYL METHACRYLATE (CAS 80-62-6)	STEL	100 ppm

HS	<b>ACGIH</b>	Three	hold	I imit	Values
UJ.	ACGILL	111163	HUIU		values

	Туре	Value
	TWA	50 ppm
Canada. Alberta OELs (Occi Components	upational Health & Safety Code, Sche Type	dule 1, Table 2) Value
METHYL METHACRYLATE (CAS 80-62-6)	STEL	410 mg/m3
		100 ppm
	TWA	205 mg/m3
		50 ppm
Canada. British Columbia O Safety Regulation 296/97, as		or Chemical Substances, Occupational Health and
Components	Туре	Value
METHYL METHACRYLATE (CAS 80-62-6)	STEL	100 ppm
	TWA	50 ppm
	g. 217/2006, The Workplace Safety Ar	nd Health Act)
Components	Туре	Value
METHYL METHACRYLATE (CAS 80-62-6)	STEL	100 ppm
	TWA	50 ppm
Canada. Ontario OELs. (Cor Components	ntrol of Exposure to Biological or Che Type	mical Agents) Value
METHYL METHACRYLATE (CAS 80-62-6)	STEL	100 ppm
	TWA	50 ppm
Canada. Quebec OELs. (Min Components	istry of Labor - Regulation respecting Type	occupational health and safety) Value
METHYL METHACRYLATE (CAS 80-62-6)	TWA	205 mg/m3
METHYL METHACRYLATE (CAS 80-62-6)	TWA	205 mg/m3 50 ppm
(CAS 80-62-6)	TWA .s (Occupational Health and Safety Re Type	50 ppm
(CAS 80-62-6)  Canada. Saskatchewan OEL Components  METHYL METHACRYLATE	s (Occupational Health and Safety Re	50 ppm egulations, 1996, Table 21)
(CAS 80-62-6)  Canada. Saskatchewan OEL Components	ւs (Occupational Health and Safety Re Type	50 ppm egulations, 1996, Table 21) Value
(CAS 80-62-6)  Canada. Saskatchewan OEL Components  METHYL METHACRYLATE	s (Occupational Health and Safety Re Type 15 minute	50 ppm  egulations, 1996, Table 21) Value  100 ppm  50 ppm
Canada. Saskatchewan OEL Components  METHYL METHACRYLATE (CAS 80-62-6)	15 minute  8 hour  No biological exposure limits noted for Explosion-proof general and local exhaust ventilation, or other engineering	50 ppm  egulations, 1996, Table 21) Value  100 ppm  50 ppm  the ingredient(s).  aust ventilation. Good general ventilation should be used a conditions. If applicable, use process enclosures, localing controls to maintain airborne levels below recommende not been established, maintain airborne levels to an
Canada. Saskatchewan OEL Components  METHYL METHACRYLATE (CAS 80-62-6)  logical limit values propriate engineering trols	15 minute  8 hour  No biological exposure limits noted for Explosion-proof general and local exhaust ventilation, or other engineerii exposure limits. If exposure limits have	50 ppm  Egulations, 1996, Table 21)  Value  100 ppm  50 ppm  the ingredient(s).  aust ventilation. Good general ventilation should be used a conditions. If applicable, use process enclosures, localing controls to maintain airborne levels below recommende not been established, maintain airborne levels to an tion and safety shower.
Canada. Saskatchewan OEL Components  METHYL METHACRYLATE (CAS 80-62-6)  logical limit values propriate engineering trols  vidual protection measures, Eye/face protection  Skin protection	15 minute  8 hour  No biological exposure limits noted for Explosion-proof general and local exhaust ventilation, or other engineering exposure limits. If exposure limits have acceptable level. Provide eyewash states such as personal protective equipment of the company of the	50 ppm  Pigulations, 1996, Table 21) Value  100 ppm  50 ppm  the ingredient(s).  Plaust ventilation. Good general ventilation should be used a conditions. If applicable, use process enclosures, local and controls to maintain airborne levels below recommence on the ence established, maintain airborne levels to an and safety shower.  Pint  Ur cartridge and full facepiece.
Canada. Saskatchewan OEL Components  METHYL METHACRYLATE (CAS 80-62-6)  logical limit values propriate engineering trols  vidual protection measures, Eye/face protection Skin protection Hand protection	Type  15 minute  8 hour  No biological exposure limits noted for Explosion-proof general and local exhaust ventilation, or other engineerin exposure limits. If exposure limits have acceptable level. Provide eyewash sta such as personal protective equipme Chemical respirator with organic vapor	50 ppm  egulations, 1996, Table 21) Value  100 ppm  50 ppm  the ingredient(s). aust ventilation. Good general ventilation should be used a conditions. If applicable, use process enclosures, local and controls to maintain airborne levels below recommende not been established, maintain airborne levels to an tion and safety shower.  Int ur cartridge and full facepiece.
Canada. Saskatchewan OEL Components  METHYL METHACRYLATE (CAS 80-62-6)  logical limit values propriate engineering trols  vidual protection measures, Eye/face protection  Skin protection	15 minute  8 hour  No biological exposure limits noted for Explosion-proof general and local exhaust ventilation, or other engineering exposure limits. If exposure limits have acceptable level. Provide eyewash states such as personal protective equipment of the company of the	50 ppm  regulations, 1996, Table 21) Value  100 ppm  50 ppm  the ingredient(s).  aust ventilation. Good general ventilation should be used a conditions. If applicable, use process enclosures, local and controls to maintain airborne levels below recommended in the not been established, maintain airborne levels to an and safety shower.  Int  ur cartridge and full facepiece.  loves.  lothing.

General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not 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.
pH Not available.

Melting point/freezing point -48 °C (-54.4 °F) estimated Initial boiling point and boiling 100.5 °C (212.9 °F) estimated

range

Flash point 10.0 °C (50.0 °F) estimated

Evaporation rate Not available.
Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits
Flammability limit - lower 1.7 %

Flammability limit - lower (%)

Flammability limit - upper

12.5 %

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper Not available.

(%)

Vapour pressure 28 mm Hg @ 20 °C

Vapour density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot 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**Hazardous polymerisation does not occur.

reactions

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**No hazardous decomposition products are known.

products

# 11. Toxicological information

Information on likely routes of exposure

Inhalation Harmful if inhaled.

Skin contact Causes skin irritation. May cause an allergic skin reaction.

**Eve contact** Causes eye irritation.

Knowledge about health hazard is incomplete. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. May cause respiratory irritation. Skin irritation. May cause redness and pain. May cause an allergic

skin reaction. Dermatitis. Rash.

Information on toxicological effects

Harmful if inhaled. Acute toxicity

Components **Species Test Results** 

Methyl methacrylate (CAS 80-62-6)

Acute

Inhalation

LC50 Mouse 18.5 mg/l, 2 Hours

Oral

LD50 Rat 7800 mg/kg

Skin corrosion/irritation Causes skin irritation. Serious eye damage/eye Causes eye irritation.

irritation

Respiratory or skin sensitisation

**ACGIH** sensitisation

Methyl methacrylate (CAS 80-62-6) Dermal sensitization

Canada - British Columbia OELs: Respiratory or skin sensitiser

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 OELs Hazard Data: Sensitiser

Methyl methacrylate (CAS 80-62-6) Sensitiser.

Due to partial or complete lack of data the classification is not possible. Respiratory sensitisation

Skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity Due to partial or complete lack of data the classification is not possible. Carcinogenicity Due to partial or complete lack of data the classification is not possible.

**ACGIH Carcinogens** 

Methyl methacrylate (CAS 80-62-6) A4 Not classifiable as a human carcinogen.

Canada - Manitoba OELs: carcinogenicity

Methyl methacrylate (CAS 80-62-6) Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Methyl methacrylate (CAS 80-62-6) 3 Not classifiable as to carcinogenicity to humans.

Due to partial or complete lack of data the classification is not possible. Reproductive toxicity

Specific target organ toxicity -

single exposure

May cause respiratory irritation.

Specific target organ toxicity -

repeated exposure

Due to partial or complete lack of data the classification is not possible.

**Aspiration hazard** Due to partial or complete lack of data the classification is not possible.

**Chronic effects** Prolonged inhalation may be harmful.

Material name: PLEXUS® MA590 Activator

SDS CANADA

## 12. Ecological information

**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-octanol / water (log Kow)

1.38 Methyl methacrylate

No data available. Mobility in soil

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 considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of **Disposal instructions** 

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).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

# 14. Transport information

**TDG** 

**UN number** UN1133

**UN proper shipping name** 

Transport hazard class(es)

ADHESIVES containing flammable liquid, Limited Quantity

Class 3 Subsidiary risk Ш Packing group

**Environmental hazards** Not available.

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

IATA

UN1133 **UN number** 

**UN proper shipping name** 

Adhesives containing flammable liquid, Limited Quantity

Transport hazard class(es)

Class 3 Subsidiary risk Packing group Ш **Environmental hazards** No. **ERG Code** 3L

Other information

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

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only Allowed with restrictions.

**IMDG** 

UN1133 **UN number** 

UN proper shipping name

Transport hazard class(es)

ADHESIVES containing flammable liquid, Limited Quantity

3 Class Subsidiary risk Ш Packing group **Environmental hazards** 

Marine pollutant No. **EmS** F-E, S-D

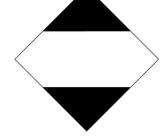
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not established.

**IATA** 





# 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)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No

Country(s) or regionInventory nameOn inventory (yes/no)\*JapanInventory of Existing and New Chemical Substances (ENCS)NoKoreaExisting Chemicals List (ECL)Yes

New ZealandNew Zealand InventoryYesPhilippinesPhilippine Inventory of Chemicals and Chemical SubstancesYes

(PICCS)

Taiwan Taiwan Chemical Substance Inventory (TCSI)

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

Yes

# 16. Other information

Issue date16-June-2019Revision date06-May-2020

Version No. 02

**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** Hazard identification: Response

Composition/information on ingredients: Component information

Stability and reactivity: Conditions to avoid Toxicological information: Acute toxicity Toxicological information: Aspiration hazard Toxicological information: Carcinogenicity Toxicological information: Mutagenicity Toxicological information: Reproductivity

Toxicological information: Respiratory sensitisation

Toxicological information: Ingestion Toxicological information: Inhalation

Toxicological information: Specific target organ toxicity - repeated exposure Toxicological information: Specific target organ toxicity - single exposure

0993 Version #: 02 Revision date: 06-May-2020 Issue date: 16-June-2019

<sup>\*</sup>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).