SAFETY DATA SHEET

1. Identification

Product identifier PLEXUS® MA310 Adhesive

Other means of identification

0930T SKU#

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

Customer Service Contact person Telephone number 978-777-1100

Fax E-mail

Emergency telephone

number

800-424-9300

Not available. Supplier

2. Hazard identification

Physical hazards Flammable liquids Category 2 **Health hazards** Acute toxicity, inhalation Category 4 Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2A Sensitization, skin Category 1A

Specific target organ toxicity following single

exposure

Not classified.

Label elements

Environmental hazards



Signal word

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. Avoid breathing mist/vapours. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.

Category 3 respiratory tract irritation

Material name: PLEXUS® MA310 Adhesive 0930T Version #: 06 Revision date: 06-February-2023 Issue date: 26-May-2019 Response

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTRE/doctor if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use appropriate media to extinguish.

Storage

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

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapour. May cause flash fire or explosion.

Supplemental information

None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Methyl methacrylate		80-62-6	40 - 70
CHLOROSULFINATED POLYETHLENE		68037-39-8	10 - 30
DIISODECYL ADIPATE		27178-16-1	1 - 5
Maleic acid		110-16-7	1 - 5
BUTYLATED HYDROXYTOLUENE (BHT)		128-37-0	0.5 - 1.5
Hydroquinone		123-31-9	0 - 0.1
Other components below reportable I	evels		10 - 30

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

4. First-aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a poison centre or doctor/physician if you feel unwell.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion

Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

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

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General information

Take off all contaminated clothing immediately. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media

Water fog. Foam. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable extinguishing media

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

Specific hazards arising from the chemical

Vapours may form explosive mixtures with air. Vapours may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.

Material name: PLEXUS® MA310 Adhesive

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).

Material name: PLEXUS® MA310 Adhesive

8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values			
Components	Туре	Value	Form
BUTYLATED HYDROXYTOLUENE (BHT) (CAS 128-37-0)	TWA	2 mg/m3	Inhalable fraction and vapour.
HYDROQUINONE (CAS 123-31-9)	TWA	1 mg/m3	
METHYL METHACRYLATE (CAS 80-62-6)	STEL	100 ppm	
	TWA	50 ppm	
Canada. Alberta OELs (Occupation	al Health & Safety Code, Sci	hedule 1, Table 2)	
Components	Туре	Value	
BUTYLATED HYDROXYTOLUENE (BHT) (CAS 128-37-0)	TWA	10 mg/m3	
HYDROQUINONE (CAS 123-31-9)	TWA	2 mg/m3	
METHYL METHACRYLATE (CAS 80-62-6)	STEL	410 mg/m3	
		100 ppm	
	TWA	205 mg/m3	
		50 ppm	
Canada. British Columbia OELs. (C Safety Regulation 296/97, as amen		s for Chemical Substances, O	ccupational Health and
Components	Туре	Value	Form
BUTYLATED HYDROXYTOLUENE (BHT) (CAS 128-37-0)	TWA	2 mg/m3	Vapor and aerosol, inhalable.
HYDROQUINONE (CAS 123-31-9)	TWA	1 mg/m3	
METHYL METHACRYLATE (CAS 80-62-6)	STEL	100 ppm	
	TWA	50 ppm	
Canada. Manitoba OELs (Reg. 217/	2006, The Workplace Safety	And Health Act)	
Components	Туре	Value	Form
BUTYLATED HYDROXYTOLUENE (BHT) (CAS 128-37-0)	TWA	2 mg/m3	Inhalable fraction and vapour.
HYDROQUINONE (CAS 123-31-9)	TWA	1 mg/m3	
METHYL METHACRYLATE (CAS 80-62-6)	STEL	100 ppm	
	TWA	50 ppm	
Canada. Ontario OELs. (Control of	-		_
Components	Туре	Value	Form
BUTYLATED HYDROXYTOLUENE (BHT) (CAS 128-37-0)	TWA	2 mg/m3	Inhalable fraction and vapour.
HYDROQUINONE (CAS 123-31-9)	TWA	1 mg/m3	
METHYL METHACRYLATE (CAS 80-62-6)	STEL	100 ppm	
	TWA	50 ppm	

Material name: PLEXUS® MA310 Adhesive

Canada. Quebec OELs.	(Ministry of Labor	 Regulation 	respecting occupation	nal health and safety)

Components	Туре	Value
BUTYLATED HYDROXYTOLUENE (BHT) (CAS 128-37-0)	TWA	10 mg/m3
HYDROQUINONE (CAS 123-31-9)	TWA	2 mg/m3
METHYL METHACRYLATE (CAS 80-62-6)	TWA	205 mg/m3
		50 ppm

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

Components	Type	Value	Form
BUTYLATED HYDROXYTOLUENE (BHT) (CAS 128-37-0)	15 minute	4 mg/m3	Inhalable fraction and vapour.
	8 hour	2 mg/m3	Inhalable fraction and vapour.
HYDROQUINONE (CAS 123-31-9)	15 minute	4 mg/m3	
	8 hour	2 mg/m3	
METHYL METHACRYLATE (CAS 80-62-6)	15 minute	100 ppm	
	8 hour	mag 05	

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

Appropriate engineering

controls

Explosion-proof general and local exhaust ventilation. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

accoptable level. I revide eyewach etation and car

Individual protection measures, such as personal protective equipment

Eye/face protection Chemical respirator with organic vapour 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.

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 Off-white.

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 %

(%)

Flammability limit - upper

(%)

12.5 %

Explosive limit - lower (%) Not available.

Explosive limit - upper

Not available.

(%)

28 mm Hg @ 20 °C Vapour pressure

Not available. Vapour density Relative density Not available.

Solubility(ies)

Solubility (water) Not available. Partition coefficient Not available.

(n-octanol/water)

Not available. **Auto-ignition temperature Decomposition temperature** Not available. Not available. **Viscosity**

Other information

0.97 g/cm3 estimated Density

Explosive properties Not explosive.

Flammability class Flammable IB estimated

Oxidising properties Not oxidising. Specific gravity 0.97 estimated

10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

Material is stable under normal conditions. **Chemical stability** 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

decomposition temperature. Avoid temperatures exceeding the flash point. Contact with

incompatible materials.

Incompatible materials Strong oxidising agents. Nitrates. Peroxides. **Hazardous decomposition**

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation Harmful if inhaled.

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

Eye contact Causes serious eye irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

Harmful if inhaled. **Acute toxicity**

Species Test Results Components

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

Acute

Oral

LD50 Rat 890 mg/kg

Test Results Components **Species**

Hydroquinone (CAS 123-31-9)

Acute

Dermal

LD50 Rat > 900 mg/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.

Causes serious eye irritation. Serious eye damage/eye

irritation

Respiratory or skin sensitisation

ACGIH sensitisation

Dermal sensitisation Hydroquinone (CAS 123-31-9) Dermal sensitisation Methyl methacrylate (CAS 80-62-6)

Canada - Alberta OELs: Irritant

BUTYLATED HYDROXYTOLUENE (BHT) Irritant

(CAS 128-37-0)

Canada - Manitoba OELs Hazard: Dermal sensitization

Dermal sensitisation Hydroquinone (CAS 123-31-9) Dermal sensitisation Methyl methacrylate (CAS 80-62-6)

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 Not a respiratory sensitizer.

Skin sensitisation May cause an allergic skin reaction.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

Carcinogenicity

ACGIH Carcinogens

BUTYLATED HYDROXYTOLUENE (BHT) A4 Not classifiable as a human carcinogen.

(CAS 128-37-0)

A3 Confirmed animal carcinogen with unknown relevance to Hydroquinone (CAS 123-31-9)

humans.

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

Canada - Manitoba OELs: carcinogenicity

Hydroquinone (CAS 123-31-9)

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

(CAS 128-37-0)

Hydroquinone (CAS 123-31-9) Confirmed animal carcinogen with unknown relevance to humans.

3 Not classifiable as to carcinogenicity to humans.

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

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

Not an aspiration hazard.

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)

Hydroquinone 0.59 -0.48 Maleic acid Methyl methacrylate 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 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

UN1133 IIN number

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.

IATA

UN number **UN1133**

UN proper shipping name Transport hazard class(es)

Adhesives containing flammable liquid, Limited Quantity

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

Class 3 Subsidiary risk Ш 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

aircraft

Allowed with restrictions

Allowed with restrictions. Cargo aircraft only

Material name: PLEXUS® MA310 Adhesive 0930T Version #: 06 Revision date: 06-February-2023 Issue date: 26-May-2019

IMDG

UN number UN1133

UN proper shipping name ADHESIVES containing flammable liquid, Limited Quantity

F-E, S-D

Transport hazard class(es)

Class 3
Subsidiary risk Packing group ||

Environmental hazards

Marine pollutant

No.

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

Transport in bulk according to Not established.

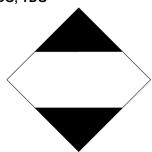
Annex II of MARPOL 73/78 and the IBC Code

IATA

EmS



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.

Country(s) or region

International Inventories

Australia

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

Australian Inventory of Chemical Substances (AICS)

TaiwanTaiwan Chemical Substance Inventory (TCSI)YesUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

16. Other information

Issue date26-May-2019Revision date06-February-2023

Version No. 06

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 Transport Information: Proper Shipping Name/Packing Group

Inventory name

0930T Version #: 06 Revision date: 06-February-2023 Issue date: 26-May-2019

On inventory (yes/no)*

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).

SAFETY DATA SHEET

1. Identification

Product identifier MA300/MA310 Activator

Other means of identification

SKU# 0905

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 personCustomer ServiceTelephone number978-777-1100

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

Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2B
Sensitization, skin Category 1A

Specific target organ toxicity following single

exposure

Not classified.

Label elements

Environmental hazards



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. Avoid breathing mist/vapours. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.

Category 3 respiratory tract irritation

Material name: MA300/MA310 Activator SDS CANADA

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 Static accumulating flammable liquid can become electrostatically charged even in bonded and

grounded equipment. Sparks may ignite liquid and vapour. May cause flash fire or explosion.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Methyl methacrylate		80-62-6	60 - 100
PYRIDINE, 3,5-DIETHYL-1,2-DIHYDRO-1-PHE NYL-2-P ROPYL-		34562-31-7	1 - 5
Calcium carbonate		471-34-1	0.1 - 1
Other components below reportable le	evels		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.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

reaction. Dermatitis. Rash.

Most important symptoms/effects, acute and

delayed

Indication of immediate

medical attention and special treatment needed

General information

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.

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

Take off all contaminated clothing immediately. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media

Water fog. Foam. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable extinguishing media

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

Specific hazards arising from the chemical

Vapours may form explosive mixtures with air. Vapours may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

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

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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	
	TWA	50 ppm	

Material name: MA300/MA310 Activator SDS CANADA

Components	Туре	Value	
Calcium carbonate (CAS 471-34-1)	TWA	10 mg/m3	
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	ELs. (Occupational Exposure Limits amended)	for Chemical Substances, C	Occupational Health and
Components	Туре	Value	Form
Calcium carbonate (CAS 471-34-1)	STEL	20 mg/m3	Total dust.
	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Total dust.
METHYL METHACRYLATE	STEL	100 ppm	
(CAS 80-62-6)	TWA	50 ppm	
Onneda Manitaba OFLa (Da			
Canada. Manitoba OELS (Re	g. 217/2006, The Workplace Safety A Type	value	
METHYL METHACRYLATE (CAS 80-62-6)	STEL	100 ppm	
(0/10/00-02-0)	TWA	50 ppm	
Components	ntrol of Exposure to Biological or Che Type	Value	
METHYL METHACRYLATE (CAS 80-62-6)	STEL	100 ppm	
	TWA	50 ppm	
Canada. Quebec OELs. (Mir	istry of Labor - Regulation respectin	g occupational health and s	afety)
Components	Туре	Value	Form
Calcium carbonate (CAS 471-34-1)	TWA	10 mg/m3	Total dust.
METHYL METHACRYLATE (CAS 80-62-6)	TWA	205 mg/m3	
		50 ppm	
Canada. Saskatchewan OEL Components	s (Occupational Health and Safety R. Type	Regulations, 1996, Table 21) Value	
Calcium carbonate (CAS 471-34-1)	15 minute	20 mg/m3	
	8 hour	10 mg/m3	
METHYL METHACRYLATE (CAS 80-62-6)	15 minute	100 ppm	
	8 hour	50 ppm	
ogical limit values	No biological exposure limits noted for	or the ingredient(s).	
propriate engineering trols	Explosion-proof general and local exh Ventilation rates should be matched t exhaust ventilation, or other engineer exposure limits. If exposure limits have	o conditions. If applicable, use ing controls to maintain airbor	e process enclosures, local ne levels below recommend

Chemical respirator with organic vapour cartridge and full facepiece.

Material name: MA300/MA310 Activator

Eye/face protection

SDS CANADA

Skin protection

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

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

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

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

9. Physical and chemical properties

Paste. **Appearance Physical state** Liquid. Paste. **Form**

Not available. Colour Odour Fragrant **Odour threshold** Not available. Not available. Ha

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

range

10.0 °C (50.0 °F) estimated Flash point

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

(%)

Not available. Explosive limit - lower (%) Explosive limit - upper Not available.

(%)

Vapour pressure 28 mm Hg @ 20 °C

Not available. Vapour density Relative density Not available.

Solubility(ies)

Solubility (water) Not available. Partition coefficient Not available.

(n-octanol/water)

Not available. **Auto-ignition temperature Decomposition temperature** Not available. Not available. **Viscosity**

Other information

0.96 g/cm3 estimated Density

Not explosive. **Explosive properties**

Flammability class Flammable IB estimated

Not oxidising. Oxidising properties

pH in aqueous solution 4.5 - 5.5 @ 5% solution

Specific gravity 0.96 estimated

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport. **Chemical stability** Material is stable under normal conditions.

Possibility of hazardous

reactions

Hazardous polymerisation does not occur.

Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the Conditions to avoid

decomposition temperature. Avoid temperatures exceeding the flash point. Contact with

incompatible materials.

Strong oxidising agents. Nitrates. Peroxides. Incompatible materials

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Harmful if inhaled. Inhalation

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

Causes eye irritation. Eye contact

Expected to be a low ingestion hazard. 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**

Calcium carbonate (CAS 471-34-1)

Acute

Oral

LD50 Rat 6450 ma/ka

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 sensitisation

Canada - Alberta OELs: Irritant

Calcium carbonate (CAS 471-34-1) Irritant

Canada - Manitoba OELs Hazard: Dermal sensitization

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

Canada - Quebec OELs: Sensitizer

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

Canada - Saskatchewan OELs Hazard Data: Sensitiser

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

Respiratory sensitisation Not a respiratory sensitizer.

Skin sensitisation May cause an allergic skin reaction.

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

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

Material name: MA300/MA310 Activator SDS CANADA 6/9 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.

This product is not expected to cause reproductive or developmental effects. Reproductive toxicity

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

The product is not classified as environmentally hazardous. However, this does not exclude the **Ecotoxicity**

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

No data is available on the degradability of any ingredients in the mixture. Persistence and degradability

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

1.38 Methyl methacrylate

Mobility in soil No data available.

Other adverse effects The product contains volatile organic compounds which have a photochemical ozone creation

potential.

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.

Dispose in accordance with all applicable regulations. Local disposal regulations

The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code

disposal company.

Waste from residues / unused

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.

3

14. Transport information

TDG

UN1133 **UN** number

UN proper shipping name Transport hazard class(es) ADHESIVES containing flammable liquid, Limited Quantity

Class

Subsidiary risk Ш Packing group

Not available. **Environmental hazards**

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

IATA

UN number

UN proper shipping name Adhesives containing flammable liquid, Limited Quantity

Transport hazard class(es)

Class 3 Subsidiary risk Ш 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

Material name: MA300/MA310 Activator 0905 Version #: 06 Revision date: 12-August-2021 Issue date: 05-June-2019 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 Ш

Environmental hazards

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

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

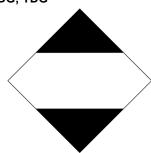
Transport in bulk according to Annex II of MARPOL 73/78 and Not established.

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.

Country(s) or region

International Inventories

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

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

Taiwan Chemical Substance Inventory (TCSI)

16. Other information

Taiwan

country(s).

05-June-2019 Issue date 12-August-2021 **Revision date**

Version No.

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

On inventory (yes/no)*

Yes

for safe handling, use, processing, storage, transportation, disposal and release.

Revision information Transport Information: Proper Shipping Name/Packing Group

Inventory name

Material name: MA300/MA310 Activator SDS CANADA 9/9