SAFETY DATA SHEET

1. Identification

Product identifier Plexus MA3940LH Adhesive

Other means of identification

SKU# Z0015

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 978-777-1100 Telephone number

Fax E-mail

Emergency telephone

800-424-9300

number

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 2 Sensitization, skin Category 1 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. 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.

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

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

extinguish.

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

Keep cool. Store locked up.

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

regulations.

Supplemental information 67.99999999994 % of the mixture consists of component(s) of unknown acute dermal toxicity.

22.99999999999 % of the mixture consists of component(s) of unknown acute inhalation toxicity. 67.9999999994 % of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 67.99999999994 % of the mixture consists of component(s) of

unknown long-term hazards to the aquatic environment.

Other hazards

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

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Methyl methacrylate		80-62-6	30-60%
2-METHYL-2-PROPENOIC ACID METHYL ESTER POLYMER WITH 1,3-BUTADIENE AND ETHENYLBENZENE		25053-09-2	10-30%
Methacrylic acid		79-41-4	1-5%
TRIMETHYLOLPROPANE TRIMETHACRYLATE		3290-92-4	1-5%
Ethylene glycol		107-21-1	0.10-0.99%

Other components below reportable levels

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

4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison

centre or doctor/physician if you feel unwell.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. In case of

eczema or other skin disorders: Seek medical attention and take along these instructions. Wash

contaminated clothing before reuse.

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

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

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important

symptoms/effects, acute and

delayed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. May cause an allowing place of the properties. Book

allergic skin reaction. Dermatitis. Rash.

Indication of immediate medical attention and special treatment needed

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

Symptoms may be delayed.

General informationTake 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.

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Unsuitable extinguishing media

Specific hazards arising from

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

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

the chemical

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

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

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7. Handling and storage

Precautions for safe handling

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid breathing mist/vapours. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

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

Conditions for safe storage, including any incompatibilities

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

50 ppm

8. Exposure controls/personal protection

US. ACGIH Threshold Limit Values (ΓLV)		
Components	Туре	Value	Form
Ethylene glycol (CAS 107-21-1)	STEL	10 mg/m3	Aerosol, inhalable.
		50 ppm	Vapor fraction
	TWA	25 ppm	Vapor fraction
Methacrylic acid (CAS 79-41-4)	TWA	20 ppm	
Methyl methacrylate (CAS 80-62-6)	STEL	100 ppm	
	TWA	50 ppm	
Canada. Alberta OELs (Occupational	l Health & Safety Code, Sch	edule 1, Table 2), as amended	i
Components	Туре	Value	
Ethylene glycol (CAS 107-21-1)	Ceiling	100 mg/m3	
Methacrylic acid (CAS 79-41-4)	TWA	70 mg/m3	
		20 ppm	
Methyl methacrylate (CAS 80-62-6)	STEL	410 mg/m3	
		100 ppm	
	TWA	205 mg/m3	

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

Components Type Value Ethylene glycol (CAS 107-21-1) Ceiling 100 mg/ms 50 ppm 50 ppm STEL 20 mg/m3 20 mg/m3 TWA 10 mg/m3 10 mg/m3 Methacrylic acid (CAS 79-41-4) TWA 20 ppm Methyl methacrylate (CAS STEL 100 ppm	Vapour. Aerosol total
107-21-1) 50 ppm STEL 20 mg/m3 TWA 10 mg/m3 Methacrylic acid (CAS TWA 20 ppm 79-41-4)	Vapour. Aerosol total
STEL 20 mg/m3 TWA 10 mg/m3 Methacrylic acid (CAS TWA 20 ppm 79-41-4)	Aerosol total
TWA 10 mg/m3 Methacrylic acid (CAS TWA 20 ppm 79-41-4)	
Methacrylic acid (CAS TWA 20 ppm 79-41-4)	Aerosol total
79-41-4)	
Methyl methacrylate (CAS STEL 100 ppm	
80-62-6)	
TWA 50 ppm	
Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amer Components Type Value	nded Form
Ethylene glycol (CAS STEL 10 mg/m3 107-21-1)	Aerosol, inhalable.
50 ppm	Vapor fraction
TWA 25 ppm	Vapor fraction
Methacrylic acid (CAS TWA 20 ppm 79-41-4)	
Methyl methacrylate (CAS STEL 100 ppm 80-62-6)	
TWA 50 ppm	
Canada. New Brunswick OELs: Threshold Limit Values (TLVs) Based on the 1991 and 19	997 ACGIH TLVs and BEIs
Publication (New Brunswick Regulation 91-191)	
Components Type Value	Form
Ethylene glycol (CAS Ceiling 100 mg/mi 107-21-1)	3 Aerosol
Methacrylic acid (CAS TWA 20 ppm 79-41-4)	
Methyl methacrylate (CAS STEL 100 ppm 80-62-6)	
TWA 50 ppm	
Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amer Components Type Value	nded Form
Ethylene glycol (CAS STEL 10 mg/m3 107-21-1)	Aerosol, inhalable.
Methacrylic acid (CAS TWA 20 ppm	
79-41-4) Methyl methacrylate (CAS STEL 100 ppm	
80-62-6) TWA 50 ppm	
Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health a	and eafaty) as amondod
Components Type Value	Form
Ethylene glycol (CAS Ceiling 127 mg/m: 107-21-1)	Wapor and mist.
50 ppm	Vapor and mist.
Methacrylic acid (CAS TWA 70 mg/m3 79-41-4)	
20 ppm	
Methyl methacrylate (CAS STEL 100 ppm 80-62-6)	

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

Value Form Components Type

> **TWA** 50 ppm

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

Ethylene glycol (CAS Ceiling 100 mg/m3 Aerosol

107-21-1)

Components

Methacrylic acid (CAS 15 minute 30 ppm

Type

79-41-4)

8 hour 20 ppm

Methyl methacrylate (CAS 15 minute 100 ppm

80-62-6)

8 hour 50 ppm

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

Value

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.

Individual protection measures, such as personal protective equipment

Eye/face protection If contact is likely, safety glasses with side shields are recommended.

Skin protection

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

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

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

Physical state Liquid. Form Liquid.

Colour White, Off-white. Odour Slight. Pungent.

Melting point/freezing point -48 °C (-54.4 °F) estimated

Boiling point or initial boiling

point and boiling range

101 °C (213.8 °F)

Flammability Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) 2.1 % estimated Explosive limit - upper 8.2 % estimated

(%)

Flash point 10.0 °C (50.0 °F) Tag closed cup

Auto-ignition temperature 435 °C (815 °F) estimated

Decomposition temperature Not available. pН Not available. Kinematic viscosity Not available.

Solubility

Solubility (water) Not available. Partition coefficient

(n-octanol/water) (log value)

Not available.

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Vapour pressure 28 hPa

Density and/or relative density

Density0.92 g/cm³Vapour densityNot available.Particle characteristicsNot available.

Other information

Explosive properties Not explosive.

Flammability class Flammable IB estimated

Oxidising properties Not oxidising.

Specific gravity 0.92

10. Stability and reactivity

ReactivityThe 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

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

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

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

Eye contact Causes serious eye irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. May cause

an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

Acute toxicity Not known.

Components Species Test Results

Ethylene glycol (CAS 107-21-1)

Acute Dermal

LD50 Rabbit 9530 mg/kg

Methyl methacrylate (CAS 80-62-6)

Acute Oral

LD50 Rat 7800 mg/kg

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye Causes serious eye irritation.

irritation

Respiratory or skin sensitisation

Respiratory sensitisation Not a respiratory sensitiser.

Skin sensitisation May cause an allergic skin reaction.

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

mutagenic or genotoxic.

Carcinogenicity Risk of cancer cannot be excluded with prolonged exposure.

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. Prolonged exposure may cause chronic effects.

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 -1.36Methacrylic acid 0.93 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 Transport hazard class(es) ADHESIVES containing flammable liquid

Class 3 **Subsidiary hazard** Ш Packing group **Environmental hazards** No.

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

IATA

UN number UN1133

UN proper shipping name Transport hazard class(es) Adhesives containing flammable liquid

Class 3 **Subsidiary hazard** Ш Packing group **Environmental hazards** No. **ERG Code** 31

Material name: Plexus MA3940LH Adhesive Z0015 Version #: 02 Revision date: 30-June-2025 Issue date: 14-August-2023 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

IMDG

UN number UN1133

UN proper shipping name ADHESIVES containing flammable liquid

Not established.

Transport hazard class(es)

Class 3 Subsidiary hazard 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.

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SDS CANADA

International Inventories

Country(s) or region	Inventory name On inventory (ye	es/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	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)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
•	onents of this product comply with the inventory requirements administered by the governing country(s) e components of the product are not listed or exempt from listing on the inventory administered by the	

16. Other information

Issue date 14-August-2023 **Revision date** 30-June-2025

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 Composition / Information on Ingredients: Ingredients

> Exposure controls/personal protection: Eye/face protection Exposure controls/personal protection: Respiratory protection

HazReg Data: International Inventories

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