

Telephone: (905) 471-4250

A7+ RESIN A7P-10

SDS Preparation Date (mm/dd/yyyy): 08/24/2016

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SECTION 1. IDENTIFICATION

Product identifier used on the label

: A7+ RESIN

Product Code(s) : A7P-10

Recommended use of the chemical and restrictions on use

: Resin component of a two part, concrete adhesive anchor system.

No restrictions on use known.

Chemical family Mixture.

Name, address, and telephone number of the manufacturer:

ITW Commercial Construction North America

700 High Grove Road Glendale Heights, IL, USA

60139

Manufacturer's Telephone # : (630) 825-7900

Name, address, and telephone number of the supplier:

ITW Construction Products

120 Travail Road Markham, ON, Canada

L3S 3J1

: (905) 471-4250 Supplier's Telephone #

Chemtrec 1-800-424-9300 (Within Continental U.S.); Chemtrec 703-527-3887 (Outside 24 Hr. Emergency Tel #

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Pasty liquid.

Most important hazards:

Combustible liquid. May be ignited by open flame.

Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Suspected of causing genetic defects. Occupational exposure to the substance or mixture may cause adverse effects. For further information, please refer to section 11 of the SDS.

Harmful to aquatic life. Avoid release to the environment. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. See Section 12 for more environmental information.

This material is classified as hazardous under Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification:

Flammable liquid - Category 4 Skin corrosion/irritation - Category 2 Eye damage/irritation - Category 2A Skin sensitization - Category 1 Germ cell mutagenicity - Category 2

Label elements

Hazard pictogram(s)







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Signal Word

WARNING!

Hazard statement(s)

Combustible liquid. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Suspected of causing genetic defects.

Precautionary statement(s)

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources - No smoking. Avoid breathing fumes or vapors. Wash exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/clothing and eye/face protection.

IF exposed or concerned: Get medical advice/attention.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eve irritation persists: Get medical advice/attention.

In case of fire: Use carbon dioxide, dry chemical or foam to extinguish.

Store in a well-ventilated place. Store locked up.

Dispose of contents/container in accordance with local regulation.

Other hazards

Other hazards which do not result in classification:

May polymerize when heated or on contact with incompatible materials. Toxic fumes may be released during a fire. Mild respiratory irritant. May cause gastrointestinal irritation. Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache). Prolonged overexposure may cause slight kidney effects, such as increased organ weight.

Environmental precautions:

Harmful to aquatic life. Avoid release to the environment. See Section 12 for more environmental information.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	Common name and synonyms	CAS#	<u>Concentration</u>
Crystalline silica, quartz	Quartz silica Crystallized silicon dioxide	14808-60-7	50%
Hydroxypropyl methacrylate (HPMA)	2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol Methacrylic acid, ester with 1,2-propanediol	27813-02-1	10%
Vinyl toluene	Methyl Styrene	25013-15-4	10%

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

: Do not induce vomiting. Never give anything by mouth to an unconscious person. Get Ingestion

medical attention.

Inhalation If inhaled, move to fresh air. If breathing is difficult, give oxygen by gualified medical

personnel only. If breathing stops, provide artificial respiration. If irritation or symptoms

develop, seek medical attention.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs, get medical Skin contact

advice/attention. Take off contaminated clothing and wash it before reuse.



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Eye contact

: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Flush eyes with water for at least 15 minutes. If eye irritation persists: get medical advice/attention.

Most important symptoms and effects, both acute and delayed

Causes skin irritation. Contact may cause redness, swelling and a painful sensation. Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

May cause severe skin sensitization with allergic contact dermatitis symptoms such as swelling, rash and eczema.

Suspected of causing genetic defects.

Mild respiratory irritant. May cause coughing and breathing difficulties.

Ingestion of larger amounts may cause defects to the central nervous system (e.g.

dizziness, headache).

Prolonged overexposure may cause slight kidney effects, such as increased organ weight.

Indication of any immediate medical attention and special treatment needed

: Provide general supportive measures and treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2); Dry chemical; Alcohol resistant foam

Unsuitable extinguishing media

: Do not use a solid water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture / Conditions of flammability

Combustible liquid. May be ignited by open flame. Heat may induce polymerization with rapid release of energy. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Toxic fumes may be released during a fire.

Hazardous combustion products

: Carbon oxides; Silicon oxides; Calcium oxides; Other unidentified organic compounds.

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Special fire-fighting procedures

Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

All persons dealing with the clean-up should wear the appropriate personal protective equipment. Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up. Wear appropriate protective equipment. Refer to protective measures listed in sections 7 and 8.

Environmental precautions

: Prevent product from entering drains, sewers, waterways and soil. Avoid release to the environment.



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Methods and material for containment and cleaning up

: Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. For spilled liquids: absorb spill with inert, non-combustible material such as sand, then place into suitable containers. Do not use combustible absorbents, such as sawdust. Pick up and transfer to properly labeled containers. Contaminated absorbent material may pose the same hazards as the spilled product. Contact the proper local authorities. . Refer to Section 13 for disposal of contaminated material.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Use only with adequate ventilation. Wear suitable protective equipment during handling. Wear protective gloves/clothing and eye/face protection. Avoid breathing fumes or vapors. Avoid contact with skin, eyes and clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources - No smoking. Keep away from incompatibles. Keep container tightly closed when not in use. Wash thoroughly after handling. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Contaminated work clothing should not be allowed out of the workplace.

Conditions for safe storage

Store in cool/well-ventilated place. Store locked up. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking. Have appropriate fire extinguishers and spill clean-up equipment in or near storage area.

Incompatible materials

Strong oxidizing agents; Acids; Bases. Contact with peroxides may initiate polymerization.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:							
Chemical Name	ACGIH TLV OSHA PEL						
	<u>TWA</u>	STEL	PEL	STEL			
Crystalline silica, quartz	0.025 mg/m³ (respirable)	N/Av	0.1 mg/m³ (respirable) (final rule limit)	N/Av			
Hydroxypropyl methacrylate (HPMA)	N/Av	N/Av	N/Av	N/Av			
Vinyl toluene	50 ppm	100 ppm	100 ppm (480 mg/m³)	N/Av			

Exposure controls

Ventilation and engineering measures

: Use with adequate ventilation. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

Respiratory protection

If airbourne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. Refer to CSA Z94.3 or other appropriate standards. Advice should be sought from respiratory protection specialists.

Skin protection

Wear protective gloves/clothing. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Depending on conditions of use, an impervious apron should be worn. Wear sufficient clothing to prevent skin contact.

Eye / face protection

Wear eye/face protection. Chemical splash goggles are recommended. A full face shield may also be necessary.

Other protective equipment

Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.



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General hygiene considerations

Avoid breathing fumes. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice. Contaminated work clothing should not be allowed out of the workplace.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Pasty liquid.

Odour N/Av **Odour threshold** N/Av рΗ N/Av Melting/Freezing point : N/Av Initial boiling point and boiling range

: > 167.7°C (333.9°F) (based on ingredients)

Flash point > 60°C (140°F)

Flashpoint (Method) N/Av Evaporation rate (BuAe = 1) N/Av

Flammability (solid, gas) : Not applicable.

Lower flammable limit (% by vol.)

N/Av

Upper flammable limit (% by vol.)

: N/Av

Oxidizing properties None known. **Explosive properties** Not explosive

Vapour pressure : N/Av Vapour density : N/Av

Relative density / Specific gravity

: >1

Solubility in water Insoluble. Other solubility(ies) : N/Av

Partition coefficient: n-octanol/water or Coefficient of water/oil distribution

: N/Av N/Av

Auto-ignition temperature Decomposition temperature N/Av Viscosity N/Av Volatiles (% by weight) : N/Av Volatile organic Compounds (VOC's)

: N/Av

Absolute pressure of container

: N/Ap

Flame projection length : N/Ap Other physical/chemical comments

: No additional information.

SECTION 10. STABILITY AND REACTIVITY

Reactivity Not normally reactive. May polymerize when heated or on contact with incompatible

materials.

: Stable under normal conditions. **Chemical stability**

Possibility of hazardous reactions

: May polymerize when heated or on contact with incompatible materials.

Conditions to avoid Direct sources of heat. Do not use in areas without adequate ventilation. Avoid contact with

incompatible materials.



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Incompatible materials Strong oxidizing agents; Acids; Bases. Contact with peroxides may initiate polymerization.

Hazardous decomposition products

: None known, refer to hazardous combustion products in Section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation : YES Routes of entry skin & eye : YFS Routes of entry Ingestion : YFS Routes of exposure skin absorption

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

: Mild respiratory irritant. May cause coughing and breathing difficulties. In extremely high concentrations, may also cause nausea, vomiting, dizziness, drowsiness and other symptoms of central nervous system depression.

Sign and symptoms ingestion

: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache).

Sign and symptoms skin

: May cause moderate to severe skin irritation. Contact may cause redness, swelling and a painful sensation.

Sign and symptoms eyes

Causes serious eye irritation. Causes moderate to severe irritation. Symptoms may include stinging, tearing, redness, swelling and blurred vision.

Potential Chronic Health Effects

: Prolonged overexposure may cause slight kidney effects, such as increased organ weight.

Mutagenicity

: This material is classified as hazardous under Canadian WHMIS regulations (Hazardous

Products Regulations) (WHMIS 2015), Classification:

Germ cell mutagenicity - Category 2. Suspected of causing genetic defects.

Contains: Vinyl Toluene. Vinyl Toluene may cause mutations in somatic (non-reproductive) cells based on animal data and limited human data. Vinyl Toluene produced chromosome damage and an increase in sister chromatid exchanges in human lymphocytes in in vitro

testing.

Carcinogenicity Not classifiable as a human carcinogen.

No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Reproductive effects & Teratogenicity

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

No data available to indicate product or components may be respiratory sensitizers. Sensitization to material

No data available to indicate product or components may be skin sensitizers.

Specific target organ effects According to the classification criteria of Canadian WHMIS regulations (Hazardous Products

Regulations) (WHMIS 2015), this product is not expected to cause specific target organ

toxicity (STOT) through single or repeated exposures.

Mild effects may be seen in the following organs: Eyes; Skin; Respiratory system; Digestive

system; Central nervous system; Liver; Kidneys

Medical conditions aggravated by overexposure

Pre-existing skin, eye, respiratory and central nervous system disorders.

Synergistic materials : None known or reported by the manufacturer.

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Toxicological data

: No data is available on the product itself. The calculated ATE values for this mixture are: ATE oral = 33,050 mg/kg

ATE inhalation (vapours) = 291 mg/L/4H

See below for individual ingredient acute toxicity data.

	LCso(4hr)	LD ₅₀		
Chemical name	inh, rat	(Oral, rat)	(Rabbit, dermal)	
Crystalline silica, quartz	N/Av	N/Av	N/Av	
Hydroxypropyl methacrylate (HPMA)	7093 ppm (29.1 mg/L) (vapour)	11 200 mg/kg	> 5000 mg/kg	
Vinyl toluene	> 3495 ppm (16.891 mg/L) (No mortality)	3305 mg/kg	> 4490 mg/kg (No mortality)	

Other important toxicological hazards

: None known or reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

: Harmful to aquatic life. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters. This product contains the following substance which may also be hazardous for the environment: Vinyl Toluene.

See the following tables for individual ingredient ecotoxicity data.

Ecotoxicity data:

<u>Ingredients</u>		Toxicity to Fish				
	CAS No	LC50 / 96h	NOEC / 21 day	M Factor		
Crystalline silica, quartz	14808-60-7	N/Av	N/Av	N/Av		
Hydroxypropyl methacrylate (HPMA)	27813-02-1	> 457 mg/L (Fathead minnow) (QSAR)	N/Av	None.		
Vinyl toluene	25013-15-4	5.2 mg/L (Fathead minnow) (Read-across)	0.563 mg/L (30 days) (QSAR)	None.		

<u>Ingredients</u>	CAS No	Тох	Toxicity to Daphnia			
		EC50 / 48h	NOEC / 21 day	M Factor		
Crystalline silica, quartz	14808-60-7	N/Av	N/Av	N/Av		
Hydroxypropyl methacrylate (HPMA)	27813-02-1	> 140 mg/L (Daphnia magna)	45.2 mg/L	None.		
Vinyl toluene	25013-15-4	1.3 mg/L (Daphnia magna) (Read-across)	0.498 mg/L (QSAR)	None.		



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Ingredients	CAS No	Toxicity to Algae			
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor	
Crystalline silica, quartz	14808-60-7	N/Av	N/Av	N/Av	
Hydroxypropyl methacrylate (HPMA)	27813-02-1	> 97 mg/L/72hr (Green algae)	97 mg/L/72hr	None.	
Vinyl toluene	25013-15-4	2.6 mg/L/72hr (Green algae) (Read-across)	1.6 mg/L/72hr (Read-across)	None.	

Persistence and degradability

The product itself has not been tested.

The following ingredients are considered to be readily biodegradable: Hydroxypropyl

methacrylate (HPMA); Vinyl Toluene.

Contains the following chemicals which are not readily biodegradable: Crystalline silica,

quartz.

Bioaccumulation potential

: The product itself has not been tested. See the following data for ingredient information.

<u>Components</u>	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)
Hydroxypropyl methacrylate (HPMA) (CAS 27813-02-1)	0.97	3.2 (estimated)
Vinyl toluene (CAS 25013-15-4)	3.58	96

Mobility in soil

: The product itself has not been tested.

Other Adverse Environmental effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal

Refer to protective measures listed in sections 7 and 8.

Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of in accordance with local regulations. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Since emptied containers may retain product residue, follow label warnings even after

container is emptied.

Methods of Disposal : Dispose of in accordance with federal, provincial and local hazardous waste laws.

SECTION 14. TRANSPORTATION INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
TDG	None.	Not regulated.	Not regulated	None	\bigotimes
TDG Additional information	None.				
ICAO/IATA	None.	Not regulated.	Not regulated	None	\otimes
ICAO/IATA Additional information	None.		,		



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	None.	Not regulated.	Not regulated	None	\otimes
IMDG Additional information	None.				

Special precautions for user

: Appropriate advice on safety must accompany the package. Keep away from heat, sparks

and open flame. - No smoking. Avoid release to the environment.

Environmental hazards

: This product does not meet the criteria for an environmentally hazardous mixture, according

to the IMDG Code. See Section 12 for more environmental information.

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

: Not applicable.

SECTION 15 - REGULATORY INFORMATION

Canadian Information:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

Canadian National Pollutant Release Inventory (NPRI): This product does not contain any substances listed on the NPRI.

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

US Federal Information:

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

International Information:

Components listed below are present on the following International Inventory list:

<u>Ingredients</u>	CAS#	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Crystalline silica, quartz	14808-60-7	238-878-4	Present	Present	(1)-548	KE-29983	Present	HSR003125
Hydroxypropyl methacrylate (HPMA)	27813-02-1	248-666-3	Present	Present	(2)-1044	KE-25135	Present	HSR003915
Vinyl toluene	25013-15-4	246-562-2	Present	Present	(3)-8	KE-13292	Present	HSR001427

SECTION 16. OTHER INFORMATION

: ACGIH: American Conference of Governmental Industrial Hygienists Legend

AICS: Australian Inventory of Chemical Substances

ATE: Acute Toxicity Estimate CAS: Chemical Abstract Services CSA: Canadian Standards Association EC50: Effective Concentration 50%.

EINECS: European Inventory of Existing Commercial chemical Substances

ENCS: Existing and New Chemical Substances HSDB: Hazardous Substances Data Bank

IARC: International Agency for Research on Cancer

IBC: Intermediate Bulk Container

IECSC: Inventory of Existing Chemical Substances IMDG: International Maritime Dangerous Goods

IOC: Inventory of Chemicals

KECI: Korean Existing Chemicals Inventory **KECL: Korean Existing Chemicals List**

LC: Lethal Concentration



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LD: Lethal Dose N/Ap: Not Applicable N/Av: Not Available

NIOSH: National Institute of Occupational Safety and Health

NOEC: No observable effect concentration NTP: National Toxicology Program

OECD: Organisation for Economic Co-operation and Development

OSHA: Occupational Safety and Health Administration

PEL: Permissible exposure limit

PICCS: Philippine Inventory of Chemicals and Chemical Substances

RTECS: Registry of Toxic Effects of Chemical Substances

SDS: Safety Data Sheet

STEL: Short Term Exposure Limit

TDG: Canadian Transportation of Dangerous Goods Act & Regulations

TLV: Threshold Limit Values TSCA: Toxic Substance Control Act TWA: Time Weighted Average

WHMIS: Workplace Hazardous Materials Identification System

References

- 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2016.
 - 2. International Agency for Research on Cancer Monographs, searched 2016.
 - 3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2016 (Chempendium, HSDB and RTECs).
 - 4. Material Safety Data Sheets from manufacturer.
- 5. OECD The Global Portal to Information on Chemical Substances eChemPortal, 2016.

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Other special considerations for handling

: Provide adequate information, instruction and training for operators.

Prepared for:

ITW Construction Products 120 Travail Road Markham, ON, Canada, L3S 3J1

Telephone: (905) 471-4250

Direct all enquiries to: ITW Construction Products



Prepared by:

ICC The Compliance Center Inc.

Telephone: (888) 442-9628 (U.S.): (888) 977-4834 (Canada)

http://www.thecompliancecenter.com



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