

DATE: April 28, 2014  
Supersedes Date: February 18, 2013

## PRODUCT NAME: EcoTite 3.0 ISO Component

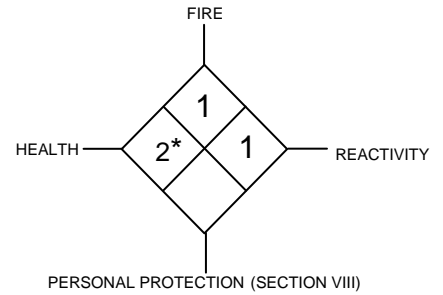
## SECTION 1 - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: Pinnacle West Enterprises Inc.

ADDRESS: 31897 Mercantile Way, Abbotsford, BC, V2T4C3

INFORMATION PHONE: 604-854-5968

EMERGENCY CONTACT: (CHEMTREC): 800-424-9300



HMIS HAZARD RATING	
LEAST---0	SLIGHT---- 1
MODERATE --- 2	HIGH ----- 3
EXTREME ---- 4	* Chronic

## SECTION 2 - COMPOSITION &amp; INGREDIENTS

Weight %	Ingredients	CAS #
30 - 60 %	Diphenylmethane-4,4'-diisocyanate (MDI)	101-68-8
60 - 100%	Polymeric Diphenylamine Diisocyanate (PMDI)	9016-87-9

Trace impurities and additional material names not listed above may appear in Section 15 of this MSDS. These materials may be listed for local "Right-To-Know" compliance and for other reasons.

## SECTION 3 - Hazards Identification

## Emergency overview

## CAUTION:

CONTAINS DIPHENYLMETHANE DIISOCYANATE (CAS No. 101-68-8). INHALATION OF MDI MISTS OR VAPORS MAY CAUSE RESPIRATORY IRRITATION, BREATHLESSNESS, CHEST DISCOMFORT AND REDUCED PULMONARY FUNCTION. OVEREXPOSURE WELL ABOVE THE PEL MAY RESULT IN BRONCHITIS, BRONCHIAL SPASMS AND PULMONARY EDEMA. LONG-TERM EXPOSURE TO

ISOCYANATES HAS BEEN HAS BEEN REPORTED TO CAUSE LUNG DAMAGE, INCLUDING REDUCED LUNG FUNCTION WHICH MAY BE PERMANENT. ACUTE OR CHRONIC OVEREXPOSURE TO ISOCYANATES MAY CAUSE SENSITIZATION IN SOME INDIVIDUALS, RESULTING IN ALLERGIC RESPIRATORY REACTIONS INCLUDING WHEEZING, SHORTNESS OF BREATH AND DIFFICULTY BREATHING.

State of matter: liquid

Color: yellow, clear

Odor: aromatic

## Potential health effects

## Primary routes of exposure:

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

## Sensitization:

Sensitization after skin contact possible. The substance may cause sensitization of the respiratory tract.

## Chronic toxicity:

**Carcinogenicity:** The chemical structure does not suggest a specific alert for such an effect.

**Genotoxicity:** The chemical structure does not suggest a mutagenic effect.

## Medical conditions aggravated by overexposure:

The isocyanate component is a respiratory sensitizer. It may cause allergic reaction leading to asthma-like spasms of the bronchial tubes and difficulty in breathing. Persons with history of respiratory disease or hypersensitivity should not be exposed to this product.

**PRODUCT NAME: EcoTite 3.0 ISO Component****SECTION 3 – Hazards Identification Continued**

An animal study indicated that MDI may induce respiratory hypersensitivity following dermal exposure. Medical supervision of all employees who handle or come into contact with isocyanates is recommended. Pre-employment and periodic medical examinations with respiratory function tests (FEV<sub>1</sub>, FVC as a minimum) are suggested. Persons with asthmatic conditions, chronic bronchitis, other chronic respiratory diseases, recurrent eczema or pulmonary sensitization should be excluded from working with isocyanates. Once a person is diagnosed as having pulmonary sensitization (allergic asthma) to isocyanates, further exposure is not recommended. Contact may aggravate pulmonary disorders.

**Signs and symptoms of overexposure:**

Symptoms can appear later.

**Potential environmental effects****Aquatic toxicity:**

There is a high probability that the product is not acutely harmful to aquatic organisms.

**SECTION 4 – FIRST AID MEASURES****General advice:**

Remove contaminated clothing.

**If inhaled:**

Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary. Immediate medical attention required.

**If on skin:**

Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention.

**If in eyes:**

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Immediate medical attention required.

**If swallowed:**

Rinse mouth and then drink plenty of water. Do not induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Immediate medical attention required.

**Note to physician**

Antidote: Specific antidotes or neutralizers to isocyanates do not exist.

Treatment: Treatment should be supportive and based on the judgment of the physician in response to the reaction of the patient.

**SECTION 5 – FIRE FIGHTING MEASURES**

Flash point: 425° F (218.33 °C) Pensky-Martins Closed Cup

Autoignition: 464° F (245 °C)

Self-ignition temperature: not self-igniting

**OSHA Flammability Class:** IIIB

**Suitable extinguishing media:**

water, dry extinguishing media, carbon dioxide, foam

**Hazards during fire-fighting:**

nitrous gases, fumes/smoke, isocyanate, vapour

**Protective equipment for fire-fighting:**

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

**SECTION 6 – SPILLAGE, ACCIDENTAL RELEASE MEASURES**

Clear area. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

**Environmental precautions:** Do not discharge into drains/surface waters/groundwater.

**Cleanup:** Dike spillage.

For small amounts: Absorb isocyanate with suitable absorbent material (see § 40 CFR, sections 260, 264 and 265 for further information). Shovel into open container. Do not make container pressure tight. Move container to a well-ventilated area (outside). Spill area can be decontaminated with the following recommended decontamination solution: Mixture of 90 % water, 8 % concentrated ammonia, 2 % detergent. Add at a 10 to 1 ratio. Allow to stand for at least 48 hours to allow escape of evolved carbon dioxide. For large

**PRODUCT NAME: EcoTite 3.0 ISO Component**

amounts: If temporary control of isocyanate vapor is required, a blanket of protein foam or other suitable foam (available from most fire departments) may be placed over the spill. Transfer as much liquid as possible via pump or vacuum device into closed but not sealed containers for disposal.

For residues: The following measures should be taken for final cleanup: Wash down spill area with decontamination solution. Allow solution to stand for at least 10 minutes.

**SECTION 7 – HANDLING AND STORAGE****Handling****General advice:**

Mix thoroughly before use. If bulging of drum occurs, transfer to well ventilated area, puncture to relieve pressure, open vent and let stand for 48 hours before resealing.

**Protection against fire and explosion:**

No explosion proofing necessary.

**Storage****General advice:**

Formation of CO<sub>2</sub> and build up of pressure possible. Keep container tightly closed and in a well-ventilated place. Outage of containers should be filled with dry inert gas at atmospheric pressure to avoid reaction with moisture.

**Storage incompatibility:**

General advice: Segregate from bases.

**Storage stability:**

Storage temperature: 16 - 27 °C

**SECTION 8 – EXPOSURE CONTROLS AND PROTECTION INFORMATION****Components with workplace control parameters**

Ingredient	ACGIH TLV	OSHA PEL	NIOSH REL
4, 4'-Diphenylmethane diisocyanate (MDI)	0.005 ppm	TWA 0.02 ppm ceiling	0.005 ppm TWA 0.02 ppm ceiling

**Advice on system design:**

Provide local exhaust ventilation to maintain recommended P.E.L.

**Personal protective equipment****Respiratory protection:**

When workers are facing concentrations above the occupational exposure limits they must use appropriate certified respirators. When atmospheric levels may exceed the occupational exposure limit (PEL or TLV) NIOSH-certified air-purifying respirators equipped with an organic vapor sorbent and particulate filter can be used as long as appropriate precautions and change out schedules are in place. Wear a NIOSH-certified (or equivalent) TC19C positive pressure air supplied respirator. For emergency or non-routine, high exposure situations, including confined space entry, use a NIOSH-certified full face piece pressure demand self-contained breathing apparatus (SCBA) or a full face piece pressure demand supplied-air respirator (SAR) with escape provisions.

**Hand protection:**

Chemical resistant protective gloves, Suitable materials, chloroprene rubber (Neoprene), chlorinated polyethylene, polyvinylchloride (Pylox), butyl rubber, fluoroelastomer (Viton), Nitrile rubber (Buna N)

**Eye protection:** Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

**Body protection:** Protective clothing should be selected and used in accordance with 'Guidelines for the selection of Chemical Protective Clothing' published by ACGIH. Use of rubber footwear or overshoes is recommended. Suitable materials, saran-coated material.

**General safety and hygiene measures:**

Wear protective clothing as necessary to prevent contact. Eye wash fountains and safety showers must be easily accessible. Observe the appropriate PEL value. Wash soiled clothing immediately. Contaminated equipment or clothing should be cleaned after each use or disposed of.

**PRODUCT NAME: EcoTite 3.0 ISO Component****SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

Form:	liquid
Odor:	slightly musty
Color:	yellow, brown
pH value:	not applicable
Freezing point:	Unspecified
Boiling point: >	572 °F (300 °C)
Vapor pressure:	Unspecified
Vapor Density (Air=1.0)	8.5
Specific Gravity	1.23 @ 77° F
Viscosity, dynamic:	Dynamic 200 mPa.s (200 cps)
Solubility in water:	Reacts with water slowly.

**SECTION 10 – STABILITY AND REACTIVITY**

**Conditions to avoid:** Avoid moisture.

**Substances to avoid:** water, alcohols, strong bases, Substances/products that react with isocyanates.

**Hazardous reactions:** The product is chemically stable.

Reacts with water, with formation of carbon dioxide. Risk of bursting. Reacts with alcohols. Reacts with acids.

Reacts with alkalis. Reacts with amines. Risk of exothermic reaction. Risk of violent reaction. Risk of polymerization. Contact with certain rubbers and plastics can cause brittleness of the substance/product with subsequent loss in strength.

**Hazardous decomposition products:** carbon monoxide, hydrogen cyanide, nitrogen oxides, aromatic isocyanates, gases/vapors

**Corrosion to metals:** No corrosive effect on metal.

**Oxidizing properties:** not fire-propagating

**SECTION 11 – TOXICOLOGICAL INFORMATION****Acute toxicity**

**Information on: MDI**

**Assessment of acute toxicity:** Of moderate toxicity after short-term inhalation. Virtually nontoxic after a single ingestion.

**Virtually nontoxic after a single skin contact.**

**Oral:**

Type of value: LD50

Species: rat

Value: > 10,000 mg/kg

**Inhalation:**

Type of value: LC50

Species: rat

Value: 0.369 mg/l

Exposure time: 4 h

Type of value: LC50

Species: rat

Value: > 2.240 mg/l

Exposure time: 1 h

Irritation / corrosion

Information on: MDI

Assessment of irritating effects: Irritating to eyes, respiratory system and skin.

**Sensitization**

**Information on: MDI**

**Assessment of sensitization:**

The substance may cause sensitization of the respiratory tract. Sensitization after skin contact possible. Studies in animals suggest that dermal exposure may lead to pulmonary sensitization. However, the relevance of this result for humans is unclear.

**PRODUCT NAME: EcoTite 3.0 ISO Component**

Information on: Diphenylmethane-4,4'-diisocyanate (MDI)

Guinea pig maximization test

Species: guinea pig

Result: sensitizing Literature data.

**Repeated dose toxicity**

Information on: MDI

Assessment of repeated dose toxicity:

No other known chronic effects.

**Carcinogenicity**

Information on: MDI

Indication of possible carcinogenic effect in animal tests. However, the relevance of this result for humans is unclear.

**Development:**

Information on: MDI

The substance did not cause malformations in animal studies; however, toxicity to development was observed at high doses that were toxic to the parental animals.

**SECTION 12 – ECOLOGICAL INFORMATION****Aquatic toxicity**

Information on: MDI

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations. The product may hydrolyse. The test result maybe partially due to degradation products.

**Fish**

Acute:

static

Brachydanio rerio/LC50 (24 h): > 500 mg/l

Information on: Diphenylmethane-4,4'-diisocyanate (MDI)

Acute:

OECD Guideline 203 static

Brachydanio rerio/LC0 (96 h): > 1,000 mg/l

**Aquatic invertebrates**

Acute:

static

Pond snail/LC50 (24 h): > 500 mg/l

Practically nontoxic.

Information on: Diphenylmethane-4,4'-diisocyanate (MDI)

Acute:

OECD Guideline 202, part 1 static

Daphnia magna/EC50 (24 h): > 1,000 mg/l

Chronic:

Daphnia magna 24 h > 500 mg/l Practically nontoxic.

**PRODUCT NAME: EcoTite 3.0 ISO Component****SECTION 13 – DISPOSAL CONSIDERATIONS**

**Waste disposal of substance:** Incinerate or dispose of in a licensed facility. Do not discharge substance/product into sewer system.

**Container disposal:**

Steel drums must be emptied and can be sent to a licensed drum reconditioner for reuse, a scrap metal dealer or an approved landfill. Refer to 40 CFR § 261.7 (residues of hazardous waste in empty containers). Check with reconditioner to determine if decontamination is required. Decontaminate containers prior to disposal. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

**Disposal Method:** Spill cleanup residues may still be subject to RCRA storage and disposal requirements. Dispose of in compliance with all relevant local, state, and federal laws and regulations regarding treatment.

**SECTION 14 – TRANSPORTATION INFORMATION****Land transport**

USDOT

Not classified as a dangerous good under transport regulations

**Sea transport**

IMDG

Not classified as a dangerous good under transport regulations

**Air transport**

IATA/ICAO

Not classified as a dangerous good under transport regulations

**SECTION 15 – NATIONAL REGULATIONS AND REFERENCES****Federal Regulations****Registration status:**

Chemical TSCA, US released / listed

**OSHA hazard category:** ACGIH TLV established; Highly toxic - inhalation; OSHA PEL established; Sensitizer; Acute target organ effects reported; Skin and/or eye irritant; Chronic target organ effects reported

**EPCRA 311/312 (Hazard categories):** Immediate, Delayed

**EPCRA 313:****CAS Number****Chemical name**

Diisocyanates Compound Category

**CERCLA RQ**

5000 LBS

**CAS Number**

101-68-8

**Chemical name**

Diphenylmethane-4,4'-diisocyanate (MDI)

**State regulations****State RTK**

MA, NJ, PA

**CAS Number**

101-68-8

**Chemical name**

Diphenylmethane-4,4'-diisocyanate (MDI)

**SARA Section 313 (40 CFR 372):**

SARA 313 notification must be detached from the MSDS and any copying or redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

The following ingredients are SARA 313 "Toxic Chemicals" and may be subject to annual reporting requirements. CAS numbers and weight percents are found in Section 2.

**Ingredient****Percentage**

Diisocyanate compound (Category code N120) 30 – 60 %

**Other Regulation/Legislation Which Apply To This Product:****CANADIAN CLASSIFICATION**

**Controlled Products Regulations (WHMIS) Classification:** Class D-2B: Material causing other toxic effects (Toxic)

**CEPA/Canadian Domestic Substance List (DSL):** All ingredients are listed or exempted on the Canadian DSL

**PRODUCT NAME: EcoTite 3.0 ISO Component****SECTION 16 –DISCLAIMER****HMIS III rating**

Health: 2\* Flammability: 1 Physical hazard: 1

NFPA and HMIS use a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates extreme danger. Although similar, the two rating systems are intended for different purposes, and use different criteria. The NFPA system was developed to provide an on-the-spot alert to the hazards of a material, and their severity, to emergency responders. The HMIS system was designed to communicate workplace hazard information to employees who handle hazardous chemicals.

**Disclaimer:** The data set forth in this sheet are based on information provided by the suppliers of the raw materials and chemicals used in the manufacture of the aforementioned product. Pinnacle West Enterprises Inc. makes no warranty with respect to the accuracy of the information provided by their suppliers, and disclaims all liability of reliance thereof.

Date: April 28, 2014  
Supersedes Date: March 28, 2013

## PRODUCT NAME: EcoTite 3.0 Resin

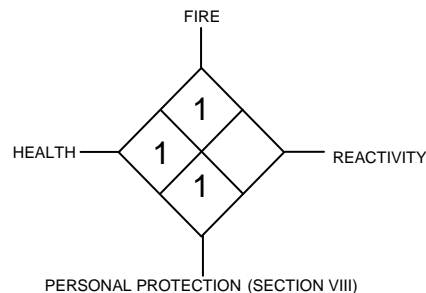
## SECTION 1 - MANUFACTURER IDENTIFICATION and Chemical Name

MANUFACTURER'S NAME: Pinnacle West Enterprises Inc.

ADDRESS: 31897 Mercantile Way, Abbotsford, BC, V2T4C3

INFORMATION PHONE: 604-854-5968

EMERGENCY CONTACT: (CHEMTREC): 800-424-9300

Chemical Family Resin  
Synonyms: Urethane System Resin Component

HMIS HAZARD RATING	
LEAST---0	SLIGHT--- 1
MODERATE --- 2	HIGH ----- 3
	EXTREME ---- 4

## SECTION 2 - COMPOSITION &amp; INGREDIENTS

Ingredient	% by Weight	CAS No.	EC No.
Polyol Blend	60 – 80	Proprietary	
Halogenated Phosphate	5 – 15		
Surfactant	1 – 2		
Alkanolamine & Tertiary amine catalyst	< 3.0 %		
Dipropylene Glycol	< 2.0 %	25265-71-8	
1,1,1,3,3-pentafluoropropane	7 – 15	460-73-1	

## SECTION 3 - Hazards Identification

## Emergency overview

CAUTION: MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION. SENSITIZER.

MAY CAUSE LIVER DAMAGE BASED ON ANIMAL DATA.  
MAY CAUSE KIDNEY DAMAGE BASED ON ANIMAL DATA.

CONTAINS MATERIAL WHICH CAN CAUSE CENTRAL NERVOUS SYSTEM DAMAGE.

MAY ADVERSELY EFFECT THE DEVELOPING FETUS BASED ON ANIMAL DATA.

## Potential health effects

## Primary routes of exposure

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

## Acute toxicity:

Ingestion may cause gastrointestinal disturbances.

## Information on: Fluorocarbons

At levels above the recommended exposure limit, the fluorocarbon acts as a weak narcotic. Acute overexposure causes tremors, confusion, irritation, suffocation, and may result in cardiac sensitization.

## Information on: Polyol

Contact with the eyes and skin may result in irritation.



**PRODUCT NAME: EcoTite 3.0 Resin****SECTION 4 – FIRST AID MEASURES**

Remove contaminated clothing.

**If inhaled:** Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary. Immediate medical attention required.

**If on skin:** Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention.

**If in eyes:** In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Immediate medical attention is required.

**If swallowed:** Rinse mouth and then drink plenty of water. Do not induce vomiting. Immediate medical attention required.

**SECTION 5 – FIRE FIGHTING MEASURES**

**Flash point:** > 200 °C (closed cup)

**Autoignition:** No data available.

**Suitable extinguishing media:** water, dry extinguishing media, carbon dioxide, foam

**Hazards during fire-fighting:** No particular hazards known.

**Protective equipment for fire-fighting:** Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

**SECTION 6 – SPILLAGE, ACCIDENTAL RELEASE MEASURES****Steps To Be Taken In Case Material Is Released Or Spilled:**

**Personal precautions:** Clear area. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

**Environmental precautions:** Do not discharge into drains/surface waters/groundwater.

**Cleanup:** Dike spillage.

For small amounts: Absorb isocyanate with suitable absorbent material (see § 40 CFR, sections 260, 264 and 265 for further information). Shovel into open container. Do not make container pressure tight. Move container to a well-ventilated area (outside). Spill area can be decontaminated with the following recommended decontamination solution: Mixture of 90 % water, 8 % concentrated ammonia, 2 % detergent. Add at a 10 to 1 ratio. Allow to stand for at least 48 hours to allow escape of evolved carbon dioxide.

For large amounts: If temporary control of isocyanate vapor is required, a blanket of protein foam or other suitable foam (available from most fire departments) may be placed over the spill. Transfer as much liquid as possible via pump or vacuum device into closed but not sealed containers for disposal.

For residues: The following measures should be taken for final cleanup: Wash down spill area with decontamination solution. Allow solution to stand for at least 10 minutes.

**SECTION 7 – HANDLING AND STORAGE**

**PRODUCT NAME: EcoTite 3.0 Resin****Handling****General advice:**

Product should not be mixed with air above atmospheric pressure for leak testing or any other purpose. Use dry nitrogen to transfer or leak test equipment pressurized with product.

**Protection against fire and explosion:** No explosion proofing necessary.

**Storage**

**General advice:** Product that is frozen and/or tending to sedimentation can be liquified or homogenized by careful application of indirect heat (do not use flames or direct contact with a heat source). Protect from direct sunlight. Keep in a cool, well-ventilated place. Avoid extreme heat. Store protected against freezing. Stored and transported in a cylinder under pressure. Must not be repacked by the customer.

**Storage stability:** Storage temperature: 60 - 90 °F

Protect against moisture. Store in unopened original containers in a cool and dry place out of direct sun light.

**SECTION 8 – EXPOSURE CONTROLS AND PROTECTION INFORMATION**

**Advice on system design:** Provide local exhaust ventilation to control vapors/mists.

**Personal protective equipment**

**Respiratory protection:** Wear a NIOSH-certified (or equivalent) organic vapor/particulate respirator as needed.

**Hand protection:** Chemical resistant protective gloves

**Eye protection:** Wear face shield or tightly fitting safety goggles (chemical goggles) if splashing hazard exists.

**General safety and hygiene measures:** Avoid contact with skin. Handle in accordance with good industrial hygiene and safety practice. Wear protective clothing as necessary to prevent contact. Avoid inhalation of vapors/mists. Wash soiled clothing immediately.

**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

Form: Viscous liquid	Bulk density: 10.1 lb/US gal ( 25 °C)
Odor: mild, amine-like	pH value: >= 7
Color: Light brown	Viscosity, dynamic: 350 - 650 mPa.s ( 23 °C)
Miscibility with water: slightly soluble	% Volatile by Volume: 7 – 15%

**SECTION 10 – STABILITY AND REACTIVITY**

**Conditions to avoid:** > 90 degrees Fahrenheit Contains 1,1,1,3,3-pentafluoropropane which can boil at 59.9<sup>0</sup> F. Avoid moisture. Avoid direct sunlight.

**Hazardous reactions:** The product is chemically stable.

**Decomposition products:** Hazardous decomposition products: carbon monoxide, carbon dioxide

**Thermal decomposition:** No data available.

**SECTION 11 – TOXICOLOGICAL INFORMATION**

**PRODUCT NAME: EcoTite 3.0 Resin**

ROUTE(S) OF ENTRY  
Inhalation  
Skin  
Ingestion ..... (not likely)

**HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE:**

ACUTE INHALATION: ..... Odors and vapors can be annoying and irritating.  
CHRONIC INHALATION: ..... None known.  
ACUTE SKIN CONTACT: ..... Irritating rash, redness or drying of skin.  
CHRONIC SKIN CONTACT: ..... None known.  
ACUTE EYE CONTACT: ..... Severe Irritation.  
CHRONIC EYE CONTACT: ..... None known.  
ACUTE INGESTION: ..... Ingestion is unlikely but could cause irritation to mouth and stomach.  
CHRONIC INGESTION: ..... None known.  
CARCINOGENICITY: ..... Lead compounds are listed as carcinogens.  
MEDICAL CONDITIONS:  
AGGRAVATED BY EXPOSURE: ..... Irritation to eyes and skin.

**SECTION 12 – ECOLOGICAL INFORMATION**

NO DATA

**SECTION 13 – DISPOSAL CONSIDERATIONS**

**Waste disposal of substance:** Incinerate in a licensed facility. Dispose of in a licensed facility. Do not discharge substance/product into sewer system.

**Container disposal:** Steel drums must be emptied and can be sent to a licensed drum re-conditioner for reuse, a scrap metal dealer or an approved landfill. Refer to 40 CFR § 261.7 (residues of hazardous waste in empty containers). Decontaminate containers prior to disposal. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

**SECTION 14 – TRANSPORTATION INFORMATION**

**Land transport**

USDOT  
TECHNICAL SHIPPING NAME: ..... Polyurethane Resin  
FREIGHT CLASS BULK: ..... 40  
FREIGHT CLASS PACKAGE: ..... 60  
DOT (HM-181) .....  
PROPER SHIPPING NAME ..... Not Regulated  
Not classified as a dangerous good under transport regulations

**Sea transport**

IMDG  
PROPER SHIPPING NAME ..... Polyurethane Resin  
Not classified as a dangerous good under transport regulations

**Air transport**

IATA/ICAO  
PROPER SHIPPING NAME ..... Polyurethane Resin  
Not classified as a dangerous good under transport regulations

**SECTION 15 – NATIONAL REGULATIONS AND REFERENCES**

**PRODUCT NAME: EcoTite 3.0 Resin**

**Federal Regulations: OSHA:** Hazardous according to OSHA (1910.1200)

**Registration status:**

TSCA, US released: All ingredients are listed on the Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

CERCLA RQ	CAS Number	Chemical name
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NONE

**SARA 313:**

This product contains the following chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 (40CFR372)

TOXIC CHEMICALS			
Glycol Ethers	N230	7-10 %	
Lead Compound	N420	Trace %	

**STATE RIGHT-TO-KNOW LAWS**

No substances on the state hazardous substances list, for the states indicated below, are used in the manufacture of products on this Material Safety Data Sheet, with the exceptions indicated. While we do not specifically analyze these products, or the raw materials used in their manufacture, for substances on various state hazardous substances lists, to the best of our knowledge the products on this Material Safety Data Sheet contain no such substances except for those specifically listed below:

WARNING: SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER:  
Lead compound.

WARNING: SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM: None known.

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This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Pinnacle West Enterprises Inc. The data on this sheet relates only to the specific material designated herein.

**SECTION 16 –DISCLAIMER**

**Disclaimer:** The data set forth in this sheet are based on information provided by the suppliers of the raw materials and chemicals used in the manufacture of the aforementioned product. Pinnacle West Enterprises Inc. makes no warranty with respect to the accuracy of the information provided by their suppliers, and disclaims all liability of reliance thereof.