

# SAFETY DATA SHEET

## 1. Identification

|   |  |                 |           |
|---|--|-----------------|-----------|
| <b>Product identifier</b>                                     | <b>All-Solve</b>                       |                 |           |
| <b>Other means of identification</b>                          |  |                 |           |
| <b>Product code</b>   | 50.300.00                              | 50.305.00       | 50.308.00 |
| <b>Recommended use</b>  | Polyurethane remover                   |                 |           |
| <b>Recommended restrictions</b>                               | None known                             |                 |           |
| <b>Manufacturer/Importer/Supplier/Distributor information</b> |  |                 |           |
| <b>Company name</b>   | Pinnacle West Enterprises Inc.         |                 |           |
| <b>Address</b>  | 31897 Mercantile Way<br>Abbotsford, BC |                 |           |
| <b>Telephone</b>  | 604-854-5968                           |                 |           |
| <b>E-mail</b>   | info@pinnaclewest.net                  |                 |           |
| <b>Contact person</b>   | Pinnacle Info                          |                 |           |
| <b>Emergency phone number</b>                                 | Chemtrec                               | 1-800-424-9300  |           |
|   | International                          | +1 703-527-3887 | ccn 7178  |

## 2. Hazard(s) identification

|                              |   |   |
|------------------------------|---|---|
| <b>Physical hazards</b>      | Flammable liquids                                 | Category 4                              |
| <b>Health hazards</b>        | Acute toxicity, oral                              | Category 4                              |
|                              | Skin corrosion/irritation                         | Category 2                              |
|                              | Serious eye damage/eye irritation                 | Category 1                              |
|                              | Reproductive toxicity                             | Category 1B                             |
|                              | Specific target organ toxicity, single exposure   | Category 3 respiratory tract irritation |
|                              | Specific target organ toxicity, single exposure   | Category 3 narcotic effects             |
|                              | Specific target organ toxicity, repeated exposure | Category 2 (Kidney)                     |
| <b>Environmental hazards</b> | Not classified.                                   |   |

### Label elements



|                                |  |
|--------------------------------|--|
| <b>Signal word</b>             | Danger   |
| <b>Hazard statement</b>        | Combustible liquid. Harmful if swallowed. Causes skin irritation. Causes serious eye damage. May cause drowsiness or dizziness. May cause respiratory irritation. May damage fertility or the unborn child. May cause damage to organs (Kidney) through prolonged or repeated exposure.  |
| <b>Precautionary statement</b> |  |
| <b>Prevention</b>              | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Avoid breathing mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.   |
| <b>Response</b>                | If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. 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. Immediately call a poison center/doctor. In case of fire: Use appropriate media to extinguish. |
| <b>Storage</b>                 | Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up.   |
| <b>Disposal</b>                | Dispose of contents/container in accordance with local/regional/national/international regulations.  |

**Other hazards** None known.  
**Supplemental information** None.

### 3. Composition/information on ingredients

#### Mixtures

| Chemical name                                       | CAS number | %        |
|---|------------|----------|
| 1-Methyl-2-pyrrolidinone                            | 872-50-4   | 40 - 60  |
| Butyrolactone                                       | 96-48-0    | 10 - 30  |
| 2-Phenoxyethanol                                    | 122-99-6   | 10 - 20  |
| Branched-nonylphenol ethoxylate                     | 68412-54-4 | 2.5 - 10 |
| Ethyl-3-ethoxy propionate                           | 763-69-9   | 2.5 - 10 |
| [2-(2-methoxymethylethoxy)methylthylethoxy]propanol | 25498-49-1 | 2.5 - 10 |

**Composition comments** 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 center or doctor/physician if you feel unwell.

**Skin contact** Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

**Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

**Ingestion** Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell. If ingestion of a large amount does occur, call a poison control center immediately.

**Most important symptoms/effects, acute and delayed** May cause drowsiness and dizziness. Narcosis. Headache. Nausea, vomiting. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Skin irritation. May cause redness and pain. Causes serious eye damage.

**Indication of immediate medical attention and special treatment needed** Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

**General information** If exposed or concerned: get medical attention/advice. 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. Show this safety data sheet to the doctor in attendance.

### 5. Fire-fighting measures

**Suitable extinguishing media** Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical** The product is combustible, and heating may generate vapors which may form explosive vapor/air mixtures. 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** Use standard firefighting procedures and consider the hazards of other involved materials.

**General fire hazards** Combustible liquid.

## 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 or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. 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.

Large Spills: Stop the flow of material, if this is without risk. Use water spray to reduce vapors or divert vapor cloud drift. 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.

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. Contact local authorities in case of spillage to drain/aquatic environment.

## 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. Keep away from open flames, hot surfaces and sources of ignition. Do not get this material in contact with eyes. Avoid breathing mist or vapor. Avoid contact with skin and clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Provide adequate ventilation. Wear personal protective equipment. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

### Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in original 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

#### Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

| Components                                  | Type | Value                 |
|---|------|-----------------------|
| 1-Methyl-2-pyrrolidinone<br>(CAS 872-50-4)  | TWA  | 400 mg/m <sup>3</sup> |
| Ethyl-3-ethoxy propionate<br>(CAS 763-69-9) | TWA  | 300 mg/m <sup>3</sup> |
|   |      | 50 ppm                |

### Biological limit values

#### ACGIH Biological Exposure Indices

| Components                                 | Value    | Determinant                        | Specimen | Sampling Time |
|--|----------|------------------------------------|----------|---------------|
| 1-Methyl-2-pyrrolidinone<br>(CAS 872-50-4) | 100 mg/l | 5-Hydroxy-N-methyl-2-pyrrolidinone | Urine    | *             |

\* - For sampling details, please see the source document.

### Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) 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. Ensure adequate ventilation, especially in confined areas. General ventilation normally adequate. Eye wash facilities and emergency shower must be available when handling this product.

### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Wear safety glasses. If splash potential exists, wear full face shield or chemical goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

|                                       |   |
|---------------------------------------|---|
| <b>Skin protection</b>                |   |
| <b>Hand protection</b>                | Wear appropriate chemical resistant gloves.   |
| <b>Other</b>                          | Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.  |
| <b>Respiratory protection</b>         | In case of inadequate ventilation or risk of inhalation of vapors, use suitable respiratory equipment. Chemical respirator with organic vapor cartridge and full facepiece.   |
| <b>Thermal hazards</b>                | Wear appropriate thermal protective clothing, when necessary.   |
| <b>General hygiene considerations</b> | When using, do not eat, drink or 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. |

## 9. Physical and chemical properties

### Appearance

|   |  |
|---|--|
| <b>Physical state</b>                               | Liquid.                                      |
| <b>Form</b>   | Liquid.                                      |
| <b>Color</b>  | Colorless to straw.                          |
| <b>Odor</b>   | Not available.                               |
| <b>Odor threshold</b>                               | Not available.                               |
| <b>pH</b>   | Not applicable.                              |
| <b>Melting point/freezing point</b>                 | Not available.                               |
| <b>Initial boiling point and boiling range</b>      | 410 °F (210 °C)                              |
| <b>Flash point</b>                                  | 192.2 °F (89.0 °C) Pensky-Martens Closed Cup |
| <b>Evaporation rate</b>                             | Not available.                               |
| <b>Flammability (solid, gas)</b>                    | Not applicable.                              |
| <b>Upper/lower flammability or explosive limits</b> |  |
| <b>Flammability limit - lower (%)</b>               | Not available.                               |
| <b>Flammability limit - upper (%)</b>               | Not available.                               |
| <b>Vapor pressure</b>                               | 0.45 hPa                                     |
| <b>Vapor density</b>                                | Not available.                               |
| <b>Relative density</b>                             | 1.065  |
| <b>Solubility(ies)</b>                              |  |
| <b>Solubility (water)</b>                           | Miscible.                                    |
| <b>Partition coefficient (n-octanol/water)</b>      | Not available.                               |
| <b>Auto-ignition temperature</b>                    | Not available.                               |
| <b>Decomposition temperature</b>                    | Not available.                               |
| <b>Viscosity</b>                                    | Not available.                               |
| <b>Other information</b>                            |  |
| <b>Bulk density</b>                                 | 1.06   |

## 10. Stability and reactivity

|   |  |
|---|--|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport.  |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.  |
| <b>Possibility of hazardous reactions</b> | No dangerous reaction known under conditions of normal use.  |
| <b>Conditions to avoid</b>                | Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials. |
| <b>Incompatible materials</b>             | Alkaline metals. Peroxides.  |
| <b>Hazardous decomposition products</b>   | Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.                               |

## 11. Toxicological information

### Information on likely routes of exposure

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | May cause drowsiness and dizziness. May cause irritation to the respiratory system. Prolonged inhalation may be harmful. |
| <b>Skin contact</b> | Causes skin irritation.  |
| <b>Eye contact</b>  | Causes serious eye damage.   |
| <b>Ingestion</b>    | Harmful if swallowed.  |

**Symptoms related to the physical, chemical and toxicological characteristics** May cause drowsiness and dizziness. Narcosis. Headache. Nausea, vomiting. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Skin irritation. May cause redness and pain.

### Information on toxicological effects

**Acute toxicity** Harmful if swallowed. Narcotic effects. May cause respiratory irritation.

| <b>Components</b>  | <b>Species</b>   | <b>Test Results</b>    |
|--|--|------------------------|
| [2-(2-methoxymethylethoxy)methylethoxy]propanol (CAS 25498-49-1) |  |                        |
| <b>Acute</b>   |  |                        |
| <i>Oral</i>  |  |                        |
| LD50   | Rat  | 3200 mg/kg             |
| 1-Methyl-2-pyrrolidinone (CAS 872-50-4)                          |  |                        |
| <b>Acute</b>   |  |                        |
| <i>Dermal</i>  |  |                        |
| LD50   | Rat  | > 5000 mg/kg, 24 Hours |
| <i>Inhalation</i>  |  |                        |
| LC50   | Rat  | > 5.1 mg/l, 4 Hours    |
| <i>Oral</i>  |  |                        |
| LD50   | Rat  | 4150 mg/kg             |
| 2-Phenoxyethanol (CAS 122-99-6)                                  |  |                        |
| <b>Acute</b>   |  |                        |
| <i>Dermal</i>  |  |                        |
| LD50   | Rabbit   | > 2214 mg/kg, 24 Hours |
| <i>Inhalation</i>  |  |                        |
| LC50   | Rat  | > 1000 mg/m3           |
| <i>Oral</i>  |  |                        |
| LD50   | Rat  | 1439 mg/kg             |
| Branched-nonylphenol ethoxylate (CAS 68412-54-4)                 |  |                        |
| <b>Acute</b>   |  |                        |
| <i>Dermal</i>  |  |                        |
| LD50   |  | 2830 mg/kg             |
| Butyrolactone (CAS 96-48-0)                                      |  |                        |
| <b>Acute</b>   |  |                        |
| <i>Inhalation</i>  |  |                        |
| LC50   | Rat  | > 5.1 mg/l, 4 Hours    |
| <i>Oral</i>  |  |                        |
| LD50   | Rat  | 1582 mg/kg             |
| <b>Skin corrosion/irritation</b>                                 | Causes skin irritation.  |                        |
| <b>Serious eye damage/eye irritation</b>                         | Causes serious eye damage.   |                        |
| <b>Respiratory or skin sensitization</b>                         |  |                        |
| <b>Respiratory sensitization</b>                                 | Due to lack of data the classification is not possible.  |                        |
| <b>Skin sensitization</b>  | Due to lack of data the classification is not possible.  |                        |
| <b>Germ cell mutagenicity</b>                                    | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |                        |

**Carcinogenicity** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

Butyrolactone (CAS 96-48-0) 3 Not classifiable as to carcinogenicity to humans.

**Reproductive toxicity** May damage fertility or the unborn child.

**Specific target organ toxicity - single exposure** May cause respiratory irritation. May cause drowsiness and dizziness.

**Specific target organ toxicity - repeated exposure** May cause damage to organs (Kidney) through prolonged or repeated exposure.

**Aspiration hazard** Not an aspiration hazard.

## 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.

| Components                              | Species | Test Results  |
|---|---------|---|
| 1-Methyl-2-pyrrolidinone (CAS 872-50-4) |         |   |
| <i>Acute</i>                            |         |   |
|   | LC50    | Palaemonetes vulgaris 1107 mg/l, 96 hours                     |
| <b>Aquatic</b>                          |         |   |
| Algae                                   | EC50    | Scenedesmus subspicatus > 500 mg/l, 72 hours                  |
| Crustacea                               | EC50    | Daphnia magna > 1000 mg/l, 24 hours                           |
| Fish                                    | LC50    | Oncorhynchus mykiss > 500 mg/l, 96 hours                      |
| <i>Chronic</i>                          |         |   |
| Crustacea                               | LC50    | Daphnia magna 25 mg/l, 21 days                                |
| 2-Phenoxyethanol (CAS 122-99-6)         |         |   |
| <b>Aquatic</b>                          |         |   |
| Fish                                    | LC50    | Fathead minnow (Pimephales promelas) 337 - 352 mg/l, 96 hours |

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential**

**Partition coefficient n-octanol / water (log Kow)**

1-Methyl-2-pyrrolidinone (CAS 872-50-4) -0.54

2-Phenoxyethanol (CAS 122-99-6) 1.16

Butyrolactone (CAS 96-48-0) -0.64

**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). Avoid discharge into water courses or onto the ground. Not applicable.

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport information

**TDG**

Not regulated as dangerous goods.

**IATA**

Not regulated as dangerous goods.

## IMDG

Not regulated as dangerous goods.

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

## 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

Butyrolactone (CAS 96-48-0) Class A

## International regulations

### Stockholm Convention

Not applicable.

### Rotterdam Convention

Not applicable.

### Kyoto protocol

Not applicable.

### Montreal Protocol

Not applicable.

### Basel Convention

Not applicable.

## International Inventories

| Country(s) or region        | Inventory name   | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| Australia                   | Australian Inventory of Chemical Substances (AICS)                     | Yes                    |
| Canada                      | Domestic Substances List (DSL)   | Yes                    |
| Canada                      | Non-Domestic Substances List (NDSL)                                    | No                     |
| China                       | Inventory of Existing Chemical Substances in China (IECSC)             | Yes                    |
| Europe                      | European Inventory of Existing Commercial Chemical Substances (EINECS) | 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                    |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                          | Yes                    |

\*A "Yes" indicates this product complies 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).

## 16. Other Information

**Issue date** 24-August-2018  
**Revision date** -  
**Version #** 01

**Disclaimer**

Pinnacle West Enterprises Inc. 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 in the sheet was written based on the best knowledge and experience currently available.