

**SAFETY DATA SHEET**

Revised: February 8, 2019

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product Name:** Purus™  
**Product Use** Agricultural Spray System Cleaner  
**Supplier:** Winfield Solutions, LLC  
 P.O. Box 64589  
 St. Paul, MN 55164-0589  
 Non-Emergency Business Inquiries:  
 1-855-494-6343 (Mon-Fri 8am-5pm CST)

**Emergency Telephone Number(s): 24 Hour Numbers**

FOR MEDICAL EMERGENCY CALL: 1-877-424-7452

FOR CHEMICAL EMERGENCY INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CONTACT CHEMTREC: 1-800-424-9300

**2. HAZARD IDENTIFICATION**

**GHS Classification:**

Metal Corrosion (category 1); Acute Oral Toxicity (category 4); Skin Corrosion (category 1A); Eye Damage (category 1)

**GHS Pictograms:**



**Signal Word:** Danger

**Hazard Statements:**

- Causes severe skin burns and eye damage.
- Harmful if swallowed.
- May be corrosive to metals.

**Precautionary Statements:**

**Prevention**

- If medical advice is needed, have product container or label at hand.
- Keep out of reach of children.
- Read label before use.
- Do not breathe mist, vapor or spray.
- Wash thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Wear protective gloves, protective clothing, eye protection or face protection. See Section 8 of this SDS and the product label for further information.
- Wash protective equipment and work clothes thoroughly after handling.

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**Response**

- Treat symptomatically.
- **IF ON SKIN (or hair):** Immediately call a poison control center or doctor for treatment advice. Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
- **IF IN EYES:** Immediately call a poison control center or doctor for treatment advice. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- **IF SWALLOWED:** Immediately call a poison control center or doctor for treatment advice. Rinse mouth. Do NOT induce vomiting.
- **IF INHALED:** Immediately call a poison control center or doctor for treatment advice. Remove person to fresh air and keep comfortable for breathing.
- Absorb spillage to prevent material-damage.
- Keep only in original container.

**Storage**

- Store locked up.
- See Section 7 and the product label for further information pertaining to storage.

**Disposal**

- Dispose of contents/container in accordance federal, state and local regulations.
- See section 13 and the product label for further information.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

| <u>Component</u>    | <u>CAS Number</u> | <u>Weight %</u> |
|---------------------|-------------------|-----------------|
| Sodium Hydroxide    | 1310-73-2         | 20-25%          |
| Nonionic Surfactant | Proprietary       | 5-10%           |

**4. FIRST AID MEASURES**

|   |  |
|---|--|
| <b>If in Eyes:</b>  | Immediately call a poison control center or doctor for treatment advise. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  |
| <b>If on skin (or hair)</b>                               | Immediately call a poison control center or doctor for treatment advice. Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Chemical burns must be treated by a physician. Wash contaminated clothes before reuse. |
| <b>If Swallowed:</b>                                      | Immediately call a poison control center or doctor for treatment advice. Rinse mouth. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not give anything to an unconscious person. |
| <b>If Inhaled:</b>  | Remove person to fresh air and keep comfortable for breathing.   |
| <b>Most Important Symptoms/Effects Acute and Delayed:</b> | Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.                                    |

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**Indication of Immediate Medical Attention and Special Treatment Needed:** Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes that do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital.

**General Information:** Have the product container/label and SDS on hand when seeking medical attention. Treat symptomatically.

**5. FIREFIGHTING MEASURES**

**Suitable Extinguishing Media:** Water Spray (Fog), Dry Chemical, CO<sub>2</sub>, or Foam may be used where product is stored.

**Unsuitable Extinguishing Media:** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific Hazards:** During fire, gases hazardous to health may be formed.

**PPE and Precautions:** Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Consider the hazards of other involved materials.

**General Fire Hazards:** Product is non-combustible.

**6. ACCIDENTAL RELEASE MEASURES**

**In Case of Spill:** Evacuate the spill area, except for cleanup personnel. Keep people upwind of spill. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Do not touch leaking containers or spilled material unless wearing appropriate protective clothing. Stop leak if you can without risk. Dike ahead of large spills to prevent run-off. Mop, pump or take up with sand or other inert absorbent. Never return spills to original container for reuse. Dispose of collected waste in accordance with federal, state and local regulations. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see Section 8 of the SDS.

**Environmental Precautions:** Avoid discharge into drains, water courses or onto the ground.

**7. HANDLING AND STORAGE**

**Precautions for Safe Handling:** Danger. Corrosive Liquid. Do not breathe mist, vapor or spray. Do not get in eyes, on skin, or on clothing. When using, do not eat drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment (See Section 8 of this SDS). Wash thoroughly after handling. Observe good industrial hygiene practices. Keep container closed when not in use.

**Conditions for Safe Storage:** Store locked up, in original tightly closed container. Store in a cool, dry and well-ventilated area away from children, food and feed products. Store away from incompatible materials (See Section 10 of this SDS). Protect product from freezing. Prevent water from being introduced into the contents of this package.

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Occupational Exposure Limits:**

| Components                           | Type                | Value                |
|--------------------------------------|---------------------|----------------------|
| Sodium Hydroxide (CAS No. 1310-73-2) | ACGIH (ceiling)     | 2 mg/m <sup>3</sup>  |
|                                      | OSHA PEL (TWA)      | 2 mg/m <sup>3</sup>  |
|                                      | US IDLH             | 10 mg/m <sup>3</sup> |
|                                      | NIOSH REL (ceiling) | 2 mg/m <sup>3</sup>  |

**Personal Protective Equipment (PPE):**

When selecting personal protective equipment and clothing, follow all of the manufacturer specifications and recommendations that apply to your specific operation and processing conditions. Take into consideration all working conditions and all chemicals to be handled or processed.

**Eye/Face Protections:** Wear safety glasses with a side shield (or goggles) and a face shield. Contact lenses should not be worn when working with chemicals.

**Skin Protection:** Wear coveralls worn over long-sleeved shirt and long pants, socks, chemical-resistant footwear and chemical-resistant gloves. When mixing and loading wear a chemical-resistant apron.

**Respiratory Protection:** Use respirator in areas of poor ventilation or if irritation is experienced.

**Engineering Controls:** Eye wash fountains and drench showers should be located within a 10 second walk from the work area per ANSI Z358.1-2009. Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits

**Hygiene Considerations:** Keep away from food and drink. Always observe good personal hygiene measures, such as washing thoroughly after handling the material and before eating, drinking, using the toilet, and smoking. After each shift, clean all protective equipment, wash work clothes, and shower.

**9. PHYSICAL / CHEMICAL PROPERTIES**

|                          |                                     |                                   |                      |
|--------------------------|-------------------------------------|-----------------------------------|----------------------|
| <b>Appearance:</b>       | Clear, straw colored viscous liquid | <b>UEL:</b>                       | N/D                  |
| <b>Odor:</b>             | Bland odor                          | <b>LEL:</b>                       | N/D                  |
| <b>Odor Threshold:</b>   | N/D                                 | <b>Vapor Pressure:</b>            | N/D                  |
| <b>pH:</b>               | 13.5 - 14 ± 0.5                     | <b>Vapor Density:</b>             | N/D                  |
| <b>Melting Point:</b>    | N/D                                 | <b>Relative Density:</b>          | 10.39 lbs/gallon     |
| <b>Freezing Point:</b>   | N/D                                 | <b>Solubility:</b>                | Dispersible in water |
| <b>Boiling Point:</b>    | >212°F                              | <b>Partition Coefficient:</b>     | N/D                  |
| <b>Flash Point:</b>      | N/A                                 | <b>Autoignition Temperature:</b>  | N/D                  |
| <b>Evaporation Rate:</b> | Same as water                       | <b>Decomposition Temperature:</b> | N/D                  |
| <b>Flammability:</b>     | Non-combustible                     |                                   |                      |

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**10. STABILITY AND REACTIVITY**

|  |  |
|--|--|
| <b>Reactivity:</b>                         | Reacts violently with strong acids. This product may react with oxidizing agents.            |
| <b>Stability:</b>                          | Stable under normal conditions.  |
| <b>Possibility of Hazardous Reactions:</b> | Hazardous polymerization will not occur.   |
| <b>Condition to Avoid:</b>                 | Contact with incompatible materials. <b>Do not mix with chlorinated detergents (bleach).</b> |
| <b>Incompatible Materials:</b>             | Strong acids and strong oxidizers. May be corrosive to metals.                               |
| <b>Hazardous Decomposition Products:</b>   | Burning may produce oxides of carbon and other substances.                                   |

**11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure**

|   |   |
|---|---|
| <b>Inhalation:</b>  | May cause irritation to the respiratory system. Prolonged inhalation may be harmful.  |
| <b>Skin contact:</b>  | Causes severe skin burns.   |
| <b>Eye contact:</b>   | Causes serious eye damage.  |
| <b>Ingestion:</b>   | Causes digestive tract burns. Harmful if swallowed.   |
| <b>Symptoms Related to the Physical, Chemical, and Toxicological Characteristics:</b> | Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. |

**12. ECOLOGICAL INFORMATION**

No ecological data is available for this product.

**13. DISPOSAL CONSIDERATIONS**

|                                |  |
|--------------------------------|--|
| <b>Product Disposal:</b>       | Dispose of in accordance with Federal, state and local regulations.  |
| <b>Contaminated Packaging:</b> | Do not reuse container. Empty containers must be handled properly due to product residue. See product label for further information on container disposal. |
| <b>Hazardous Waste Codes:</b>  | The waste code should be assigned in discussion between the user, the producer and the waste disposal company.   |

**14. TRANSPORTATION INFORMATION**

|                                       |  |
|---------------------------------------|--|
| <b>DOT Status (Highway and rail):</b> | UN3266, Corrosive liquid, basic, inorganic, n.o.s. (contains Sodium Hydroxide), 8, PG II |
| <b>IATA Status (Air):</b>             | UN3266, Corrosive liquid, basic, inorganic, n.o.s. (contains Sodium Hydroxide), 8, PG II |
| <b>Marine Pollutant:</b>              | No   |

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**15. REGULATORY INFORMATION**

**TSCA Inventory:** All components are listed on the TSCA inventory.

**SARA Title III Information:**

- Section 302 Extremely hazardous substances:** None listed
- Section 311/312 – Hazard Categories:** See Section 2 of this SDS
- Section 313 (TRI Reporting):** None listed

**CERCLA:** This product contains the following chemicals which have a reportable quantity (RQ) under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA):

Sodium Hydroxide (CAS No. 1310-73-2) RQ 1,000 lb (reached with 385 gallons of this product)

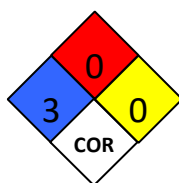
**California Proposition 65:** None listed

**16. OTHER INFORMATION**

HMIS Hazard Rating

|                     |   |
|---------------------|---|
| HEALTH              | 3 |
| FLAMMABILITY        | 0 |
| REACTIVITY          | 0 |
| PERSONAL PROTECTION | X |

NFPA Rating



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**Revision Date:** February 8, 2019

**Supersedes document dated:** January 14, 2015

**Sections Revised:** All