

# SAFETY DATA SHEET

## TRUROW™ AHEAD

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Printed: 12/18/2024

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Supersedes Revision: 05/23/2022

according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2020/878; US OSHA HCS 2015; and Canadian WHMIS 2015.

### Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

- 1.1 Product Code:** Z-TRUROWAHEAD  
**Product Name:** TRUROW™ AHEAD  
**CAS Number:** 8001-22-7
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
**Relevant identified uses:** For agricultural use only
- 1.3 Details of the Supplier of the Safety Data Sheet:**  
**Company Name:** WINFIELD SOLUTIONS, LLC.  
P.O. BOX 64589  
St. Paul, MN 55164 USA  
**Information:** Non-Emergency 1 (855)494-6343
- 1.4 Emergency telephone number:**  
**Emergency Contact:** Chemtrec 1 (800)424-9300  
Medical 1 (877)424-7452

### Section 2. Hazards Identification

**2.1 Classification of the Substance or Mixture:**

**Acute Toxicity:** Oral, Category 5

**Acute Toxicity:** Skin, Category 5

**2.2 Label Elements:**

**GHS Signal Word:** Warning

**Hazard-determining components of labelling:**

1H-Indole-3-butanoic acid

**GHS Hazard Phrases:**

H303 - May be harmful if swallowed.

H313 - May be harmful in contact with skin.

**GHS Precautionary Phrases:**

P280- - Wear protective gloves and eye/face protection as specified by the manufacturer/supplier or the competent authority.

**GHS Response Phrases:**

P312 - Call a POISON CENTER or doctor/physician if you feel unwell.

**GHS Storage and Disposal Phrases:**

P501 - Dispose of contents/container to treatment at a permitted facility or as advised by your local regulatory authority.

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UFI:

**2.3 Adverse Human Health** Not a known hazardous substance or mixture.**Effects and Symptoms:****2.3.1 Inhalation:** May be harmful if inhaled.**2.3.2 Skin Contact:** May cause skin irritation.**2.3.3 Eye Contact:** May cause eye irritation.**2.3.4 Ingestion:** May be harmful if swallowed.

### Section 3. Composition/Information on Ingredients

CAS #	Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
525-79-1	Cytokinin (As Kinetin)	~ 0.15 %	208-382-2 NA	Mutagen 2: H341
133-32-4	1H-Indole-3-butanoic acid	~ 0.85 %	205-101-5 NA	Acute Tox.(O) 3: H301 Skin Corr. 2: H315 Eye Damage 2: H319 STOT (SE) 3: H335
NA	( Trade Secret )NA	~99.0 %	NA NA	

### Section 4. First Aid Measures

- 4.1 Description of First Aid Measures:** Victims of severe exposure to chemicals must be taken to health providing centers for medical attention. If necessary, also rescuers must be attended. Always bring with victim a copy of label and SDS of product to health professional.
- In Case of Inhalation:** Remove victim from exposure to fresh air. Seek medical attention if victim's breathing is difficult.
- In Case of Skin Contact:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.
- In Case of Eye Contact:** Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.
- In Case of Ingestion:** Rinse mouth with water. Have person sip a glass of water if able to swallow. Do not induce vomiting unless directed to do so by a physician. Do not give anything by mouth to an unconscious person. Call a poison control center or doctor for treatment advice.
- 4.2 Important Symptoms and Effects, Both Acute and Delayed:** To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
- Note for the Doctor:** Treat symptomatically and supportively.

## Section 5. Fire Fighting Measures

- 5.1 Suitable Extinguishing Media:** Use dry chemicals, carbon dioxide, or chemical foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable Extinguishing Media:** Do not use a solid water stream as it may scatter and spread fire.
- 5.2 Flammable Properties and Hazards:**
- Flash Point:** NA
- Explosive Limits:** LEL: N.A. UEL: N.A.
- Autoignition Pt:** NA
- 5.3 Fire Fighting Instructions:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

## Section 6. Accidental Release Measures

- 6.1 Protective Precautions, Protective Equipment and Emergency Procedures:** In case of a large spill, protect people by clearing and isolating the affected area. Such releases should be responded to by trained personnel using pre-planned procedures. In the event of an incidental release, minimum Personal Protective Equipment must be worn: latex or rubber gloves and rubber boots, goggles or full face-shield and coveralls or long sleeved shirt and pants.
- 6.2 Environmental Precautions:** Do not allow to enter drains or waterways.
- 6.3 Methods and Material For Containment and Cleaning Up:** It is necessary to contain the spill into the smallest area possible by diking, scooping, etc., and place recovered liquid into an appropriate container. If liquid is absorbed onto a dry carrier such as soil or absorbant material, then this material should be put in covered, labeled containers and disposed of as dry waste in accordance with Federal, State, and Local waste disposal regulations.

## Section 7. Handling and Storage

- 7.1 Precautions To Be Taken in Handling:** Avoid breathing vapor or spray mist. Avoid contact with eyes, skin, or clothing. Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
- 7.2 Precautions To Be Taken in Storing:** Inspect all incoming containers before storage to ensure all are properly labeled and not damaged. Keep containers tightly closed when not in use. Keep away from reach of children and pets. Whenever possible, place chemicals on secondary containers or diked area. Store in a cool place out of direct sunlight. Do not contaminate water, food or feed by storage or disposal. Empty containers may contain residual liquid or vapors and therefore should be handled the same as full containers.
- Other Precautions:** Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170.  
Do not allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours.

**Section 8. Exposure Controls/Personal Protection****8.1 Exposure Parameters:**

**Recommended Exposure Limits:** No occupational exposure limits have been established for this mixture.

**8.2 Exposure Controls:**

**8.2.1 Engineering Controls (Ventilation etc.):** General ventilation is usually adequate. Local exhaust should be used if needed for safe, comfortable working conditions. An eye wash fountain, safety shower and washing facilities should be readily available.

**8.2.2 Personal protection equipment:**

**Eye Protection:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Protective Gloves:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers.

**Other Protective Clothing:**

**Respiratory Equipment (Specify Type):** A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

**Work/Hygienic/Maintenance Practices:** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove all dirty or contaminated clothing and wash it before reusing.

**8.2.3 Environmental Exposure Controls:** Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high-water mark. Do not contaminate water by cleaning of equipment or disposal of equipment wash waters.

**Exposure Scenarios:**

**Section 9. Physical and Chemical Properties****9.1 Information on Basic Physical and Chemical Properties**

**Physical States:** ☐ Gas ☒ Liquid ☐ Solid

**Appearance and Odor:** Clear, Liquid. light yellow to dark yellow liquid

**pH:** N.E.

**Freezing Point:**

**Boiling Point:**

**Flash Point:** NA

**Evaporation Rate:** N.E.

**Saturated Vapor Concentration:** N.E.

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<b>Flammability (solid, gas):</b>	
<b>Explosive Limits:</b>	LEL: N.A. UEL: N.A.
<b>Vapor Pressure:</b>	N.E.
<b>Vapor Density (vs. Air=1):</b>	N.E.
<b>Specific Gravity (Water=1):</b>	1.02 - 1.06 at 20.0 C
<b>Density:</b>	1.0306 G/ML (8.6 LB/GA) at 20.0 C
<b>Solubility in Water:</b>	Miscible (emulsion)
<b>Octanol/Water Partition Coefficient:</b>	
<b>Autoignition Pt:</b>	NA
<b>Decomposition Temperature:</b>	
<b>Viscosity:</b>	N.E.

### 9.2 Other Information

#### 9.2.1 Information with regard to physical hazard classes

Information with regard to  
primary physical hazard:

#### 9.2.2 Other safety characteristics

## Section 10. Stability and Reactivity

- 10.1 Reactivity:** N.A.
- 10.2 Stability:** Unstable [ ] Stable [ X ]
- 10.3 Conditions To Avoid -** None known.
- Hazardous Reactions:**
- Possibility of** Will occur [ ] Will not occur [ X ]
- Hazardous Reactions:**
- 10.4 Conditions To Avoid -** Stable under normal condition, but avoid extreme heat and contact with incompatible materials.
- Instability:**
- 10.5 Incompatibility -** Strong oxidizing agents.
- Materials To Avoid:**
- 10.6 Hazardous** Thermal decomposition can lead to release of irritating gas and vapors.
- Decomposition or**
- Byproducts:**

**Section 11. Toxicological Information**

<b>11.1 Information on Toxicological Effects:</b>	Mutagenicity: The components of this product are not reported to produce mutagenic effects in humans. Embryotoxicity: The components of this product are not reported to produce embryotoxic effects in humans. Teratogenicity: The components of this product are not reported to produce teratogenic effects in humans. Reproductive Toxicity: The components of this product are not reported to produce toxic reproductive effects in humans. CAS# 133-32-4: 1H-Indole-3-butanoic acid: Acute toxicity, LD50, Oral, Mouse, 100.0 MG/KG. Result: Brain and Coverings: Recordings from specific areas of CNS. Cardiac:Pulse rate. Blood:Changes in leukocyte (WBC) count. - "Agricultural Chemicals," 1976/77 revision, Thomson, W.T., 4 vols., Thomson Publications, Fresno, CA, Vol/p/yr: 3,76,1976, 1977
<b>Irritation or Corrosion:</b>	No data available.
<b>Symptoms related to Toxicological Characteristics:</b>	No data available.
<b>Sensitization:</b>	The sensitizing properties of this product have not been thoroughly investigated.
<b>Chronic Toxicological Effects:</b>	The toxicological properties of this material have not been fully investigated.
<b>Carcinogenicity/Other Information:</b>	The carcinogenic properties of this product have not been thoroughly investigated. No component is listed as a carcinogenic by IARC, NTP, OSHA, and ACGIH.
<b>Carcinogenicity:</b>	NTP? No      IARC Monographs? No      OSHA Regulated? No
<b>11.2 Information on other hazards:</b>	

**Section 12. Ecological Information**

<b>12.1 Toxicity:</b>	The available data on this material does not indicate any undue hazard to the environment under anticipated use and storage. All work practices must be aimed at preventing environmental contamination. Any waste due to spillage or leakage should be contained and disposed of accordingly, see above under Section 6 "Accidental Release Measures."  To aid our customers in complying with regulatory requirements, SARA Title III hazard categories for this product are indicated in Section 15. If the word "YES" is marked next to any category, this product may be reportable by you under the requirements of 40 CFR Part 370. Please consult those regulations for details.
<b>12.2 Persistence and Degradability:</b>	No data available.
<b>12.3 Bioaccumulative Potential:</b>	No data available.
<b>12.4 Mobility in Soil:</b>	No data available.
<b>12.5 Results of PBT and vPvB assessment:</b>	No data available.

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**12.6 Endocrine disrupting****properties:****12.7 Other adverse effects:**

### Section 13. Disposal Considerations

**13.1 Waste Disposal****Method:**

PRODUCT: This product is not an RCRA hazardous waste in its original form; users may re-evaluate its classification due to any mixtures, usage or contamination it may incur during their handling. Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Waste disposal must be done following all Federal, State and Local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local waste regulatory authority. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Avoid contaminating water by disposal of equipment wash waters or other product wastes.

CONTAINER: Non-refillable container; do not reuse or refill product container. Clean container promptly after using. Offer for recycling, if available, or puncture and dispose of in a sanitary landfill.

### Section 14. Transport Information

**LAND TRANSPORT (US DOT):****DOT Proper Shipping Name:** Not Regulated. Trade Name: TRUROW AHEAD**DOT Hazard Class:****UN/NA Number:****LAND TRANSPORT (Canadian TDG):****TDG Shipping Name:** Not Regulated. Trade Name: TRUROW AHEAD**UN Number:****Hazard Class:****TDG Classification:****LAND TRANSPORT (European ADR/RID):****ADR/RID Shipping Name:** Not Regulated. Trade Name: TRUROW AHEAD**UN Number:****Hazard Class:****MARINE TRANSPORT (IMDG/IMO):****IMDG/IMO Shipping Name:** Not Regulated. Trade Name: TRUROW AHEAD**UN Number:****Packing Group:****Hazard Class:****AIR TRANSPORT (ICAO/IATA):****ICAO/IATA Shipping Name:** Not Regulated. Trade Name: TRUROW AHEAD**UN Number:****Packing Group:****Hazard Class:****Additional Transport**

Placards / Markings: N.A.

**Information:**

Emergency Response Guide Number: N.A.

Reportable Quantity: N.A.

**Section 15. Regulatory Information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:****EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists**

CAS #	Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
525-79-1	Cytokinin (As Kinetin)	No	No	No
133-32-4	1H-Indole-3-butanoic acid	No	No	No
NA	( Trade Secret )	No	No	No

CAS #	Components (Chemical Name)	Canadian NPRI	Canadian Toxic	Canadian DSL
525-79-1	Cytokinin (As Kinetin)	No	No	Yes
133-32-4	1H-Indole-3-butanoic acid			Yes
NA	( Trade Secret )	No	No	No

**Regulatory Information:** TSCA Inventory

This product contains chemical substance(s) exempt from U.S. EPA TSCA Inventory requirements. It is regulated as a pesticide subject to Federal Insecticide, Fungicide, Rodenticide Act (FIFRA) requirements.

Federal Insecticide, Fungicide and Rodenticide Act (FIFRA)

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**Regulatory Information****Statement:****15.2 Chemical Safety****Assessment:****Section 16. Other Information****Revision Date:** 12/18/2024**Additional Information About****This Product:****Company Policy or****Disclaimer:**