

1. Identification
Product identifier
Product Name Ascend® ST3™

EPA Reg. No. 1381-276

Recommended use of the chemical and restrictions on use
Recommended use Plant growth regulator seed treatment.

Restrictions on use See product label for use restrictions.

Details of the supplier of the safety data sheet
Supplier Address

Winfield Solutions, LLC
P.O. Box 64589
St. Paul, MN 55164-0589

For Non-Emergency Business Inquiries:
1-855-494-6343 (Mon - Fri 8am - 5pm CST)

Emergency telephone numbers: FOR MEDICAL EMERGENCY: 1-877-424-7452 (24 hrs)

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL:
CHEMTREC 1-800-424-9300 (24 hrs)

2. Hazard(s) identification
Classification
OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Sensitization

Category 1B


Signal Word
WARNING
Hazard Statements

May cause an allergic skin reaction

Precautionary Statements - Prevention

Avoid breathing, mist, vapors, and spray. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves.

Precautionary Statements - Response

If on skin: Wash with plenty of soap and water. If skin irritation or rash occurs get medical attention. Wash contaminated clothing before reuse.

Precautionary Statements - Storage

See Section 7 and the product label for information on storage conditions.

Precautionary Statements - Disposal

Dispose of contents/container in accordance with Federal, state and local regulations. See Section 13 and the product label for further information on disposal considerations.

3. Composition/information on ingredients

| Chemical Name | CAS No | Weight-% | Trade Secret |
|--|-----------|---------------|--------------|
| Cytokinin, as Kinetin | 525-79-1 | 0.41 – 0.51 | - |
| Gibberellins (GA ₄ +GA ₇) | 8030-53-3 | 0.37 – 0.045 | - |
| Indole-3-Butyric Acid | 133-32-4 | 0.225 – 0.275 | - |

4. First-aid measures

Description of first aid measures

| | |
|--------------|---|
| Inhalation | Remove to fresh air. Get medical attention if irritation occurs. |
| Eye contact | Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists. |
| Skin contact | Wash skin with soap and water. Get medical attention if irritation develops and persists. |
| Ingestion | Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician. |

Most important symptoms and effects, both acute and delayed

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| Symptoms | May cause mild eye and skin irritation. May cause gastrointestinal upset. May irritate the upper respiratory tract. |
|----------|---|

Indication of any immediate medical attention and special treatment needed

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| Note to physicians | Treat symptomatically. |
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5. Fire-fighting measures

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| Suitable Extinguishing Media | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Unsuitable extinguishing media | High volume water jet. |
| Specific hazards arising from the chemical | None known. |
| Explosion data | |
| Sensitivity to mechanical impact | None. |
| Sensitivity to static discharge | None. |
| Special protective equipment and precautions for fire-fighters | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

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| Personal precautions | Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. See Section 8 for personal protective equipment. |
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Methods and material for containment and cleaning up

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| Methods for containment | Prevent further leakage or spillage if safe to do so. |
| Methods for cleaning up | Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labeled containers. |

7. Handling and storage

Precautions for safe handling

Advice on safe handling

RECOMMENDATIONS ARE FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS. PESTICIDE APPLICATORS AND WORKERS must refer to the pesticide product label and Directions for Use attached to the product for Agricultural Use Requirements in accordance with EPA Worker Protection Standard 40 CFR part 170. Ensure adequate ventilation. Avoid contact with skin, eyes, or clothing. Avoid breathing mist, vapors, and spray. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet, or applying cosmetics. Wash contaminated clothing before reuse. Use personal protective equipment as required. Do not wear contaminated clothes out of the workplace.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep out of the reach of children. Store in a manner as to prevent cross contamination with other crop protections products, fertilizers, food, and feed. Store in original container. Keep container tightly closed in a dry and well-ventilated place.

Incompatible materials

None known.

8. Exposure controls/personal protection

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THE PRODUCT. FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Control parameters

Exposure Limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

Appropriate engineering controls

Engineering controls

Showers; Eyewash stations; Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection

Safety glasses with side shields.

Hand protection

Impervious gloves. See product label for suggested glove types.

Skin and body protection

Impervious clothing.

Respiratory protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Clear amber liquid

Physical state

Liquid

Color

Amber

Odor

Soapy

Odor threshold

No data available

Property

Values

Remarks • Method

pH

4.24

1% Solution

Melting point / freezing point

No data available

Initial boiling point and boiling range

No data available

Flash point

> 93.3 °C / > 200 °F

No data available

Evaporation rate

No data available

Flammability

No data available

Flammability Limit in Air

Upper flammability or explosive limits

No data available

Lower flammability or explosive limits

No data available

Vapor pressure

No data available

Vapor density

No data available

Relative density

No data available

Water solubility

No data available

Solubility(ies)

No data available

Partition coefficient

No data available

Autoignition temperature

No data available

Decomposition temperature

No data available

Kinematic viscosity

No data available

Dynamic viscosity

No data available

Other information**Explosive properties**

Not Explosive

VOC Content (%)

No information available

Liquid Density

1.055 g/ml @ 26°C

Bulk density

1.040 g/ml @ 40°C

10. Stability and reactivity**Reactivity**

None under normal use conditions.

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

None under normal processing.

Hazardous polymerization

Hazardous polymerization does not occur.

Conditions to avoid

None known.

Incompatible materials

Strong oxidizing agents, strong acids, and strong bases.

Hazardous decomposition products None known**11. Toxicological information****Acute Toxicity****Inhalation**LC₅₀ (rat): >5.0 ml/L**Eye contact**

Animal Study (rabbit): Practically non-irritating (all affects cleared within 24 hours).

Skin contactLD₅₀ (rat): >5,050; Animal irritation study (rabbit): Non-irritating; Skin Sensitization (mouse): Caused skin sensitization.**Ingestion**LD₅₀ (rat): >5,000 mg/kg**Symptoms related to the physical, chemical and toxicological characteristics****Symptoms**

May cause mild eye and skin irritation. May cause gastrointestinal upset. May irritate the upper respiratory tract. Skin rash/sensitization.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

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|--|--|
| Respiratory or skin sensitization | Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. |
| Germ cell mutagenicity | Based upon an evaluation of ingredients within the formulation, this product is not anticipated to be a germ cell mutagen. |
| Carcinogenicity | Based upon an evaluation of ingredients within the formulation, this product is not anticipated to be carcinogenic. |
| Reproductive toxicity | Based upon an evaluation of ingredients within the formulation, this product is not anticipated to cause reproductive toxicity. |
| STOT - single exposure | Based upon an evaluation of ingredients within the formulation, this product is not anticipated to cause specific target organ toxicity either by single or repeat exposure. |
| STOT - repeated exposure | |
| Aspiration hazard | Based upon an evaluation of the ingredients within the formulation, this product is not anticipated to be an aspirational hazard. |
| Other adverse effects | None known |
| Interactive effects | None known |

12. Ecological information

| | |
|--------------------------------------|---|
| Ecotoxicity | The environmental impact of this product has not been fully investigated. |
| Persistence and degradability | No information available. |
| Bioaccumulation | No information available. |
| Other adverse effects | No information available. |

13. Disposal considerations**Waste treatment methods**

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|-------------------------------|---|
| Disposal of wastes | Triple rinse (or equivalent), adding rinse water to spray tank. Do not contaminate water, food, or feed by disposal. Dispose of in accordance with Federal, state, and local regulations. See product label for further instructions. |
| Contaminated packaging | Triple rinse (or equivalent). Offer container for recycling or dispose of in a sanitary landfill or by other procedures approved by appropriate authorities. Recycling decontaminated containers is the best option of container disposal. Do not contaminate water, food or feed by disposal. Do not reuse container. Dispose of in accordance with Federal, state, and local regulations. |

14. Transport information**DOT**

Not regulated

15. Regulatory information

International Inventories

TSCA - EPA regulated pesticide. Exempt.

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|---------------------|------------|---------------|--------------|
| Proprietary Solvent | X | - | X |

U.S. EPA Label Information

EPA Pesticide Registration Number 1381-276

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 required on the pesticide label:

Signal Word: CAUTION

Human Health Hazards/Precautionary Statements

Causes moderate eye irritation. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Environmental Hazards

For terrestrial uses. Do not apply directly to water, or 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 washwater or rinsate. Treated seed exposed on soil surface may be hazardous to birds, wildlife, fish, and aquatic invertebrates. Cover or collect seeds spilled.

16. Other information

| | | | | | | | | |
|-------------|-----------------------|------------|---------------------|----------|-------------------------|---|----------------------------|---|
| NFPA | Health hazards | 1 | Flammability | 0 | Instability | 0 | Special hazards | - |
| HMIS | Health hazards | 1 | Flammability | 0 | Physical hazards | 0 | Personal protection | X |
| | 0 - Least | 1 - Slight | 2 - Moderate | 3 - High | 4 - Severe | | | |

Revision No. 3
Revision Date 7 Oct 2024
Sections Revised 3
Supersedes SDS Dated 27 Aug 2024

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet