

SAFETY DATA SHEET

X-PAND

1. Product and Company Identification

Product Code: Z-XPAND
Product Name: X-PAND
Company Name: Stoller
9090 Katy Freeway
Suite 400
Houston, TX 77024
Phone Number: 1 (713)461-1493
Web site address: www.stollerusa.com
Email address: compliance@stollerusa.com
Emergency Contact: CHEMTREC, In the US and Canada call 1 (800)424-9300
CHEMTREC, From other countries call +1 (703)527-3887
Information: 1 (800)539-5283
Intended Use: For agricultural use only

2. Hazards Identification

Eye Irritation, Category 2B

GHS Signal Word: **Warning**
GHS Hazard Phrases: H320 - Causes eye irritation.
GHS Precautionary Phrases: P264 - Wash hands thoroughly after handling.
GHS Response Phrases: P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+313 - If eye irritation persists, get medical advice/attention.
GHS Storage and Disposal Phrases: No phrases apply.
Potential Health Effects (Acute and Chronic): Not a known hazardous substance or mixture.
Inhalation: May be irritating to respiratory tract.
Skin Contact: May be harmful in contact with skin.
Eye Contact: May cause eye irritation.
Ingestion: May cause irritation or ulceration.

3. Composition/Information on Ingredients

CAS #	Components (Chemical Name)	Concentration	RTECS #
77-06-5	(+)-Gibberellic acid	<15.0 %	LY8990000
NA	Inert Ingredients	<85.0 %	NA

4. First Aid Measures

Emergency and First Aid Procedures:	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:	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.
Signs and Symptoms Of Exposure:	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 to Physician:	Treat symptomatically and supportively.

5. Fire Fighting Measures

Flash Pt:	NA
Explosive Limits:	LEL: N.A. UEL: N.A.
Autoignition Pt:	NA
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.
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.
Flammable Properties and Hazards:	No data available.
Hazardous Combustion Products:	No data available.

6. Accidental Release Measures

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.
Environmental Precautions:	Do not allow to enter drains or waterways.
Steps To Be Taken In Case Material Is Released Or Spilled:	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.

7. Handling and Storage

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.
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.

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
77-06-5	(+)-Gibberellic acid	No data.	No data.	No data.
NA	Inert Ingredients	No data.	No data.	No data.

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

9. Physical and Chemical Properties

Physical States: Gas Liquid Solid

Appearance and Odor: Clear to light yellow color.

pH: Not established

Melting Point: NE

Boiling Point: NE

Flash Pt: NA

Evaporation Rate: Not established

Flammability (solid, gas): No data available.

Explosive Limits: LEL: N.A. UEL: N.A.

Vapor Pressure (vs. Air or mm Hg): Not established

Not established

Vapor Density (vs. Air = 1): Not established

Specific Gravity (Water = 1): 1.11 - 1.15

Density: ~ 9.43 LB/GA

Solubility in Water: No data.

Saturated Vapor Concentration: Not established

Octanol/Water Partition Coefficient: N.E.

Autoignition Pt: NA

Decomposition Temperature: NE

Viscosity: Not established

Information with regard to primary physical hazard:

10. Stability and Reactivity

Reactivity: N.A.

Stability: Unstable Stable

Conditions To Avoid - Instability: Stable under normal condition, but avoid extreme heat and contact with incompatible materials.

Incompatibility - Materials To Avoid: Strong oxidizing agents.

Hazardous Decomposition or Byproducts: Thermal decomposition can lead to release of irritating gas and vapors.

Possibility of Hazardous Reactions: Will occur Will not occur

Conditions To Avoid - Hazardous Reactions: None known.

11. Toxicological Information

Toxicological Information:	Acute Oral OECD Guideline 425 & EPA OPPTS 870.1100: LD50 >2000 mg/kg BW Acute Dermal OECD Guideline 402 & EPA OPPTS 870.1200: LD50 > 5000 mg/kg BW Acute Inhalation OECD Guideline 403 & EPA OPPTS 870.1300: LC50 > 5.14mg/L of air Eye Irritating OECD Guideline 405 & EPA OPPTS 870.2400: Minimally irritating effects at < 24 hours, no positive effects seen at 24 hours Skin Irritation OECD Guidelines 404 & EPA OPPTS 870.2500: No harmful effects identified
Irritation or Corrosion:	No data available.
Symptoms related to Toxicological Characteristics:	None known.
Sensitization:	No elicit reaction identified based on OECD Guideline 429
Chronic Toxicological Effects:	None known.
Carcinogenicity/Other Information:	No component is listed as a carcinogenic by IARC, NTP, OSHA, and ACGIH. Mutagenicity studies were negative both with and without metabolic activation - based on OECD 471 & OECD 487 Guidelines
Carcinogenicity:	NTP? No IARC Monographs? No OSHA Regulated? No

12. Ecological Information

General Ecological Information:	72-Hour Algal Inhibition Test OECD 201: EC50 > 50 mg/L Daphnia Magna 48-Hour Acute Toxicity Test OECD 202: EC50 > 50mg/L 96-Hour Rainbow Trout Acute Toxicity Test OECD 203: LC50 > 100mg/L HoneyBee Acute Contact Toxicity Limit Test OECD 214: LD50 > 100ug Earthworm 14-Day Acute Toxicity Test OECD 207: 14-day LC50 was 23,965.5 mg/kg; 7-day LC50 was 45,555.6mg/kg Acute Oral Toxicity Limit Study in Bobwhite Quail OCSP 850.2100: LD50 >2,000 mg/kg BW Acute Oral Toxicity Study on Honeybees OECD 213: LD50 > 100.0ug/bee 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.
Results of PBT and vPvB assessment:	No data available.
Persistence and Degradability:	No data available.
Bioaccumulative Potential:	No data available.
Mobility in Soil:	No data available.

13. Disposal Considerations

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.

14. Transport Information

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Not Regulated. Trade Name: X-PAND
DOT Hazard Class:
UN/NA Number:

MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: Not Regulated. Trade Name: X-PAND
UN Number: **Packing Group:**
Hazard Class:

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not Regulated. Trade Name: X-PAND
UN Number: **Packing Group:**
Hazard Class:

Additional Transport Information:

Placards / Markings: N.A.
 Emergency Response Guide Number: N.A.
 Reportable Quantity: N.A.

15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
77-06-5	(+)-Gibberellic acid	No	No	No
NA	Inert Ingredients	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

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Revision: 06/28/2022

Supersedes Revision: 12/29/2020

safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

CAUTION.

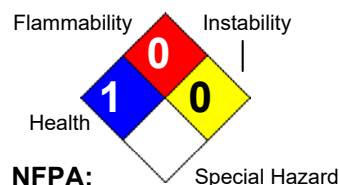
Regulatory Information Statement:

16. Other Information

Revision Date: 06/28/2022

Previous revision: 12/29/2020

Hazard Rating System:



Additional Information About This Product: No data available.

This Product:

Company Policy or Disclaimer:

Stoller believes the information contained in this Safety Data Sheet is accurate based on the information provided by reputable suppliers of our raw materials. However, Stoller does not guarantee their accuracy or completeness. The information contained herein is furnished without warranty of any kind, whether expressed or implied, as to the safety of the goods, the merchantability of the goods, or the fitness of the goods for any particular purpose. Users should consider these data only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers. Stoller assumes no responsibility for results obtained or for incidental or consequential damages arising from the use of goods and data.