

SAFETY DATA SHEET

DuraStart 8-30-0+.1 Zn

SECTION 1. IDENTIFICATION

Product Identifier: DuraStart (8-30-0)
Other means of identification: Professional Series Fertilizer, custom blends
Product Type: Liquid
Identified uses: Fertilizer solution
Suppliers Details: Professional Ag Distribution Inc
#1-6285-205st Langley, B.C.
Emergency telephone Number: 24Hr Emergency Telephone Number 613-996-6666

SECTION 2. HAZARD IDENTIFICATION

Classification of mixture: Not classified. This product is not considered hazardous according to WHMIS, HAZCOM, and NORMA OFICIAL MEXICANA

Precautionary statements:

General N/A
Prevention Wash hands thoroughly after handling
Response IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritant persists, seek medical attention.

SECTION 3. COMPOSITION INFORMATION

Substance: Mixture

Ingredient name	CAS number
Polyphosphoric acids, ammonium salts P ₂ O ₅	68333-79-9
Water Zinc Acetate K ₂ O	7732-18-5

Any concentration shown as a range is to protect confidentiality

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

SECTION 4. FIRST AID MEASURES

- Eye contact:** Begin eye irrigation immediately. Exposures to eye irritants may require medical evaluation following decontamination if pain or irritation persists. Immediately rinse eyes with large quantities of water or saline for a minimum of 15 minutes. If possible, remove contact lenses being careful not to cause additional eye damage. If the initial water supply is insufficient, keep the affected area wet with a moist cloth and transfer the person to the nearest place where rinsing can be continued for the recommended length of time. For additional advice call the medical emergency number on this SDS or your poison center or doctor.
- Inhalation:** Remove person to fresh air. No known significant effects. Seek medical attention for any signs of wheezing and/or breathing difficulties. For additional advice call the medical emergency number on this SDS or your poison center or medical provider.
- Skin Contact:** No known significant effects. Rinse the affected areas with water. Remove contaminated clothing, jewelry, and shoes. Wash/clean items before reuse. Seek medical attention for persistent skin pain or irritation. For additional advice call the medical emergency number on this SDS or your poison center or doctor.
- Ingestion:** May be irritating to mouth, throat and stomach. Oral exposures: if the affected person requires CPR, avoid mouth to mouth contact. Do not induce vomiting. If vomiting occurs, attempt to keep head lower than chest so that vomit does not enter the lungs. Wash (decontaminate) face and mouth with water to remove visible material. If the exposed person is conscious and can swallow, give 1-2 sips of water. Do not give anything else by mouth.
Loosen tight clothing such as collar, tie, belt or waistband to prevent any breathing restrictions. Call for emergency transportation to a hospital if the exposed person feels sick or has breathing difficulties, or a large amount is suspected ingested. For additional advice, call the medical emergency number on this SDS or your poison center or doctor.
- Notes to physician:** In case of inhalation of decomposition products (carbon monoxide, carbon dioxide, nitrogen oxides) in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for up to 72 hours. In cases of suspected methemoglobinemia, monitor methemoglobin blood levels. Treatment is supportive; methylene blue may be indicated based on patient severity. 24 Hr Medical Emergency telephone number for professional support: English: 1-303-389-1653; French or Spanish: 1-303-389-1654.
- Specific treatments:** Call the medical emergency number on this SDS or your poison center or doctor immediately if large quantities have been ingested.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media:	Non-flammable. Material will not burn. Use an extinguishing agent suitable for the surrounding fire
Specific hazards:	Not an oxidizer at the manufactured concentration. It may become an oxidizing liquid if concentrated by evaporation. If evaporated to dryness, the product acts as an oxidizing agent, and supports combustion by liberating oxygen even if smothered. Cool containing vessels with flooding quantities of water until well after fire is out. A self contained breathing apparatus should be used to avoid inhalation of toxic fumes. When heated to decomposition it emits toxic fumes (NH ₃ , NO, NO ₂ ...).
	Contaminated water can cause environmental damage. Contain and collect water used to fight fire.
Hazardous thermal Decomposition products:	Decomposes on heating. Decomposition products may include the following materials: Carbon Dioxide, Carbon Monoxide, Nitrogen oxides
Special protective Equipment for fire-fighters:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6. ACCIDENTAL RELEASE MEASURES

For non-emergency personnel:	No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Put on appropriate personal protective equipment.
For emergency responders:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for Cleaning up spills:	Use personal protective equipment as required. Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Pump spilled material to a suitable, labeled container for recycling or disposal. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

SECTION 7. HANDLING AND STORAGE

Protective measures:	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when
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not in use. Empty containers retain product residue and can be hazardous.

Conditions for safe storage:

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Incompatible with copper alloys. May form corrosive sludge on prolonged storage. Contact your sales representative or a metallurgical specialist to ensure compatibility with your equipment.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Appropriate engineering controls: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures:

Hygiene measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location

Eye / Face protection:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection:

The personal protective equipment required varies, depending upon your risk assessment. Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. No special measures are typically indicated

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state:	Liquid
Color:	Brown
Odor:	Odorless
Odor threshold:	N/A
pH:	7
Melting point:	-22°C
Boiling point:	N/A
Flash point:	N/A
Evaporation rate:	N/A
Flammability (solid or gas)	Non-combustible
Lower and upper explosive:	N/A
Vapor pressure:	N/A
Vapor density:	N/A
Relative density:	1.4
Solubility:	Easily soluble in water
Solubility in water:	Water soluble liquid
Partition coefficient:	N/A
Auto-ignition temperature:	N/A
Decomposition temperature:	N/A
Viscosity:	N/A

SECTION 10. STABILITY AND REACTIVITY

Reactivity:	Not an oxidizer at the manufactured concentration. It may become an oxidizing liquid if concentrated by evaporation. Keep away from incompatible materials.
Chemical stability:	The product is stable
Possibility of hazardous reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid:	Do not allow to dry out. Avoid high temperatures in combination with high pressures.
Incompatible materials:	Adequate, well engineered systems must be provided for the safe storage, transfer and use of this product. May be incompatible with some materials of construction. Incompatible with copper alloys, copper, and zinc. May form corrosive sludge on prolonged storage. Incompatible with halogens. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.
Hazardous decomposition products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity:

Product/ingredient name	Result	Species	Dose	Exposure
Polyphosphoric acids	LD50 Dermal	Rat - Male, Female	>5000 mg/kg	- - -
Water	LD50 Oral	Female Rat	>90 g/kg	- -

Conclusion/Summary: Very low toxicity to humans or animals

Long term exposure: None

Potential chronic health effects: None

Carcinogenicity: Potential for nitrosamine formation if ingested. Do not ingest.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity:

Product/ingredient name	Result	Species	Exposure
Polyphosphoric acids, ammonium salts	Acute EC50 813000 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 >500 mg/l Fresh water	Fish	96 hours
	Acute LC50 70000 µg/l Fresh water	Fish - Oncorhynchus tshawytscha - Juvenile (Fledgling, Hatchling, Weanling)	96 hours

Conclusion/Summary: Practically non-toxic to aquatic organisms. Very low toxicity to fish.

Persistence and degradability: According to EC criteria: Readily biodegradable

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods:

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal

of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14. TRANSPORT INFORMATION

	TDG Classification	DOT Classification	Mexico Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information	-	-	-	-	-

Special precautions for users:

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage

SECTION 15. REGULATORY

Canadian lists:

- **Canadian NPRI:** CAS- RN 7664-41-7) **The following components are listed: Ammonia (total,NH3-**
- **CEPA Toxic substances:** **None are listed**
- **Canada inventory:** **This Material is listed and or exempt**

International:

Chemical Weapon Convention list schedules I,II,&III chemicals: **None are listed**

Montreal Protocol (Annexes A,B,C&E): Not listed

Stockholm Convention on persistent organic pollutants: **Not listed**

Rotterdam convention on prior inform consent (PIC): Not listed

UNECE Aarhus Protocol on POPs and heavy metals: **Not listed**

Inventory list:

Australia:	All components are listed or exempted
China:	All components are listed or exempted
Europe:	All components are listed or exempted
Japan:	All components are listed or exempted
Malaysia:	Not determined
New Zealand:	All components are listed or exempted
Philippines:	All components are listed or exempted
Republic of Korea:	All components are listed or exempted
Taiwan:	All components are listed or exempted
Turkey:	Not determined

U.S. Federal Regulations: TSCA 4(a) final test rules: Biuret; Urea, reaction products with formaldehyde

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

TSCA 8(b) inventory: All components are listed or exempted

Clean air act section 112: Not listed

Clean air act section 602 class 1: Not listed

Clean air act section 602 class 2: Not listed

DEA list I Chemicals: Not listed

DEA list II Chemicals: Not listed

SARA 302/304 Composition/information on ingredients

SARA 304 RQ: Not listed

Massachusetts: The following are listed: Ammonium nitrate

New York: None are listed

New jersey: The following are listed: Ammonium nitrate, nitric acid, ammonium salt

Pennsylvania: The following are listed: Nitric acid ammonium salt

California Prop. 65: Not listed

SECTION 16. OTHER INFORMATION

Hazardous Material information system (USA)

Health	0
Flammability	0
Physical hazards	0

Notice to reader:

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