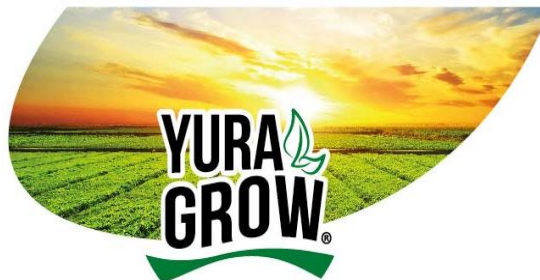


YURA START

ROOT GROWTH ENHANCER
& ENERGY BOOST FOR CROPS



MATERIAL SAFETY DATA SHEET (MSDS)

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **YURA START**
GENERIC/Common Name: Liquid Fertilizer.
COMPANY IDENTIFICATION: Yura Grow USA Inc.
ADDRESS: 2000 Marshall Huff Road
Dallas, GA 30132
TEL: +1 (770) 652 8099
EMAIL: info@yuragrow.com

II. COMPOSITION, INFORMATION ON INGREDIENTS

Components	C.A.S No.	% Volume
Phosphoric acid	7664-38-2	45 – 55
Urea	57-13-6	20 – 23
Potassium hydroxide	7447-40-7	8 - 12
Zinc sulphate heptahydrate	7446-20-0	3 - 6
Ethanol	64-17-5	2 - 5
Water	7732-18-5	4 - 7

III. HAZARD(S) IDENTIFICATION

Classification of the substance or mixture:

H3 F0 R1 Personal protection 1B

GHS – US classification

- H314: Danger. Causes severe skin burns and eye damage, category 1B.
- H318: Danger. Causes serious eye damage, category 1.
- H335: Warning. May cause respiratory irritation, category 3.
- H302: Warning. Harmful if swallowed, category 4.

GHS – Pictogram

Skin and Eyes:



Respiratory, Ingestion:



Potential health effects

Eyes: Corrosive. Causes redness, pain, blurry vision, burns and permanent eye damage.

Skin: Corrosive. Causes redness, pain and skin burns.

Inhalation: Vapors may cause irritation of respiratory tract.

Ingestion: Corrosive. Causes throat pain, abdominal pain, nausea and severe upper gastrointestinal tract burns. Prolonged exposure may cause shock, circulatory collapse and even death.

Medical Conditions Aggravated by Long-Term Exposure: None known. People with preexistent medical conditions or sensitivity to the components may be more likely to suffer effects from exposure.

Chronic effects: None known.

IV. FIRST-AID MEASURES

EYE CONTACT

Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Remove contact lenses immediately. Get medical attention.

SKIN CONTACT	Wash with soap and water for at least 15 minutes. Get medical attention if irritation persists.
INHALATION	Move person to fresh air. Get medical attention if any symptom continues.
INGESTION	Do not induce vomit. Rinse mouth with plenty water and drink water. Get medical attention if any symptom continues.
NOTE TO DOCTOR	Treat symptomatically

V. FIRE-FIGHTING MEASURES

FLASH POINT	Not applicable.
FIRE HAZARD	Non combustible.
EXPLOSION HAZARD	Non known.
SUITABLE EXTINGUISHING MEDIA	Adapt extinguishing media to the environment.
UNSUITABLE EXTINGUISHING MEDIA	No unsuitable extinguishing media known.
FIREFIGHTING INSTRUCTIONS	Use appropriate firefighting protective clothes and respiratory apparatus. Water may be used to cool down containers exposed to fire.
PRECAUTIONARY MEASURES DUE TO FIRE	Toxic gases may be generated during fires, like carbon oxides, nitrogen oxides and phosphoric oxides.

VI. ACCIDENTAL RELEASE MEASURES

Use adequate protective clothing at all times. Stop leak if possible, without further personal risk. Immediately contain the spill with sand, soil or any other inert material. Transfer the spilled material to available and suitable container for its further disposal. Never return spills to original containers for re-use. Clean the area with water.

Large spills: Dike for later disposal Isolate hazard area. Contact local health authorities.

VII. HANDLING AND STORAGE

- Store and handle in accordance to all local and current regulations.
- Do not wear contact lenses while handling it.
- Use impervious gloves and clothing while handling.
- Store in a cool, dry and ventilated area.
- Store in plastic containers.
- Keep away from oxidizing agents.
- Keep away from the reach of children.
- Keep away from the reach of animals.

GHS – US Storage precautionary statements:

- P403 + P233: Store in a well-ventilated place. Keep container tightly closed.
- P405: Store locked up

VIII. EXPOSURE CONTROL AND PERSONAL PROTECTION

EYE PROTECTION

Wear splash resistant safety goggles with a face mask. Do not wear contact lenses while handling the product.

SKIN PROTECTION

For prolonged use we recommend the use of impervious protective gloves, clothing and boots that are protective against chemicals.

RESPIRATORY PROTECTION

Not necessary during normal use or when compliance to exposure limits is met. If dusk production, wear dusk mask with filter type P3.

VENTILATION

Work in a well-ventilated area.

ENGINEERING CONTROLS

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide local exhaust or general room ventilation.

GHS – US precautionary statements:

- **P260:** Do not breathe dusts or mists.
- **P261:** Avoid breathing dust/fume/gas/mist/vapours/spray.
- **P264:** Wash thoroughly after handling.
- **P270:** Do not eat, drink or smoke when using this product.
- **P271:** Use only outdoors or in well-ventilated area.
- **P280:** Wear protective gloves/protective clothing/ eye protection/ face protection.

IX. PHYSICAL AND CHEMICAL DATA

Appearance	Crystal Clear	Physical state	Liquid
Boiling point	≈100 °C	Solubility (Water)	Complete
Evaporation rate	N.A.	Gravity	1.48 g/mL
Freezing point	N.A.	Vapor density	N.D.
Fusion point	N.A.	Vapor pressure	N.D.
Molecular weight	N.A.	Viscosity	N.D.
Odor	Sweet		
pH	1,5 – 3,5		

X. STABILITY AND REACTIVITY

STABILITY	Stable under normal conditions of storage and use.
INCOMPATIBILITIES	Strong oxidizing agents and strong bases.
HAZARDOUS POLIMERIZATION	Will not occur.
HAZARDOUS DECOMPOSITION	Carbon Oxides, Nitrogen Oxides and Phosphorus Oxides. Thermal decomposition generates corrosive vapors.

XI. TOXICOLOGICAL INFORMATION

ROUTES OF EXPOSURE	Skin and eye contact.
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TOXICITY DATA

ORAL LD50 > 2500 mg/Kg.

RABBIT SKIN LD50 >3500 mg/Kg.

CHRONIC TOXIC EFFECTS

Carcinogenic Effects: Not determined.

Mutagenic Effects: Not determined.

Teratogenic Effects: Not determined.

Developmental Effects: Not determined

On continuous or chronic exposure may cause dry skin and red skin.

ACUTE TOXIC EFFECTS

Not determined.

XII. ECOLOGICAL INFORMATION

It's not expected to generate aquatic toxic effects. Causes mild pH shifts in water.

Not dangerous for the ozone layer or air pollutant.

No bioaccumulative potential.

XIII. DISPOSAL CONSIDERATIONS

Dispose in accordance to national, state and local regulations.

XIV. TRANSPORT INFORMATION

Department of Transportation (DOT)

UN-No.:

UN1805

Proper Shipping Name:

Phosphoric acid solution

Transport hazard class:

8 - Class 8 - Corrosive material 49 CFR 173.136

Packing group:

II

Hazard labels:

8 – Corrosive



XV. REGULATORY INFORMATION

US Federal regulations

Listed on US TSCA inventory.
Not subject to reporting requirements of US SARA Section 313.

XVI. ADDITIONAL INFORMATION

Revision date: April 27th, 2019

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