

1 – Product and Company Identification

Product name: SELA SUGER
Common name: SILICON-BASED - Sugar content enhancer.

Chemical Description:

Item	% w/v
Potassium (K ₂ O)	5.0% w/v
Magnesium (MgO)	2.5% w/v
Boron (B)	1.5% w/v
Silicon (SiO ₂)	1.5% w/v
Copper (Cu)	0.1% w/v
Iron (Fe)	0.25% w/v
Manganese (Mn)	0.25% w/v
Molybdenum (Mo)	0.05% w/v
Zinc (Zn)	0.25% w/v

TSCA/CAS No: This product is a mixture — there is no specific CAS number.

Manufacturing Company identification: Selagro Italy

Product type: Fertilizer

2 – Composition / Information of ingredients**Active ingredient:**

Item	% w/v
Potassium (K ₂ O)	5.0% w/v
Magnesium (MgO)	2.5% w/v
Boron (B)	1.5% w/v
Silicon (SiO ₂)	1.5% w/v
Copper (Cu)	0.1% w/v
Iron (Fe)	0.25% w/v
Manganese (Mn)	0.25% w/v
Molybdenum (Mo)	0.05% w/v
Zinc (Zn)	0.25% w/v

3 – Emergency / Hazardous Identification

brown, viscous liquid with slight odor. May cause eye irritation. Not D.O.T.regulated. Hazard identification of the active ingredient

Classification IV: non-hazardous product.
(0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)

4 – First Aid Measures

Eyes: Rinse eyes with plenty of running water for at least 15 minutes. Get medical attention if irritation persists.

Skin: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Get medical attention if irritation persists.

Ingestion: Drink water. If adverse reaction occurs, call a Poison Control Center or physician immediately. Do not give anything by mouth to an unconscious person.

Inhalation: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth and get medical attention.

5 – Fire And Explosion Hazards

Flash Point:	450oF (232oC)
Test Method:	Closed Cup.
LEL Flammable Limits:	Not available.
UEL Flammable Limits:	Not available.
Auto ignition Temperature:	Not available.
Flammability Classification:	Nonflammable.
Known Hazardous Products of Combustion:	Not known.
Properties that Initiate/Contribute to Intensity of Fire:	Not known.
Potential for Dust Explosion:	None.
Reactions that Release Flammable Gases or Vapors:	Not known.
Potential for Release of Flammable Vapors:	Not known.
Unusual Fire & Explosion Hazards:	None.
Extinguishing Media:	Foam, carbon dioxide, dry chemical are preferred.
Water may cause splatter or spread.	
Special Firefighting Procedures:	Wear positive pressure, self-contained breathing apparatus and full protective clothing. Avoid smoke inhalation. Contain any liquid runoff.

6 – Spills and Leaks

After spillage/leakage/gas

Collect on absorbent material, place it in a container and hold for leakage: container and hold for disposal according to point 13.

Personal precautions

Avoid contact with eyes and skin.

Environmental precautions

If spillage, avoid product reaches water flows.

Evacuation: Not necessary.

7 – Handling and Storage

Storage Store in original container only in a cool, well-ventilated, dry place at temperatures between 40 and 95F. Do not store near food or feeds. Do not stack pallets more than two (2) high.

Transfer Equipment: Transfer product using chemical--resistant plastic or stainless steel tank pumps, valves, etc.

Work/Hygienic Practices: Keep out of reach of children. Causes eye irritation. Avoid breathing spray mists or vapors. May be harmful if swallowed. Avoid contamination of feed of foodstuffs.

After using this product remove clothing and launder separately before reuse, and promptly and thoroughly wash hands and exposed skin with soap and water.

8 – Personal Protection Equipment

Eyes: Chemical dust/splash goggles or full-face shield to prevent eye contact. As a general rule, do not wear contact lenses when handling.

Skin: Impervious gloves and clothes.

Respiratory: Not normally needed. If use generates an aerosol mist or respiratory irritation, use NIOSH- approved dust/mist respirator (such as 3M #8710).

Ventilation: Recommended but no TLV established.

9. Physical and Chemical Data

Appearance: brown, viscous liquid.
Odor: Slight odor.
PH: 4.9 ± 0.5
Vapor Pressuer: None.
Vapor Density (Air = 1) Not available
Boiling Point: Not available.
Freezing Point: 32 F.
Water solubility: Dispersible in water.
Density: 1.30 ± 0.1 g/mL
Evaporation Rate: Not determined.
Viscosity: Not available.
% Volatile: Not available. Octanol/Water Partitioon
Coefficient: Not available.
Saturated Vapor Concentration: Not available.

10– Stability and Reactivity

Stability: Stable

Conditions to Avoid Incompatibility: Overheating

Incompatibility: Not available Hazardous

Decomposition Products: None.

Hazardous Polymerization: Will not occur.

11 – Potential Health Effects

ACUTE EFFECTS:

Eyes: May cause mild eye irritation.

Skin: May cause slight irritation, especially from prolonged exposure. May cause redness.
LC50 (Rats) : >2,000 mg/kg.

Ingestion: May cause stomach cramps and/or nausea. LC50 (Rats):>5,000 mg/kg.

Inhalation: None expected but inhalation may cause mild irritation of nasal mucous membranes.
LC50 (Rats): >2.07 mg/L.

Sub chronic Effects: None Known.

Chronic Effects: Not a contact skin sensitizer.

– Ecological Information

Algal/Lemna Growth Inhibition: Not known. Toxicity to Fish and

Invertebrates: Not known. Toxicity to Plants:

Not known.

Toxicity in Birds: Not known.

– Disposal Consideration

Do not contaminate lakes, streams, ponds, estuaries, oceans or other waters by discharge of waste effluents or equipment wash waters. Dispose of waste effluents in accordance with state and local waste disposal regulations. Also, chemical additions or other alterations of this product may invalidate any disposal information in this MSDS. Therefore, consult local waste regulators for proper disposal. **There is no any preventative for airport transportation.**

DOT	No regulated for transport
Air transport (IATA/ICAO)	No regulated for transport
Sea transport (IMDG/IMO)	No regulated for transport

– Transport Information

Road(U.S.--DOT) not regulated

Other shipping description: Oil (Other than Petroleum), Liquid or Solidified.
NMFC Item 145100, LTL Class 65

– Regulatory Information

CERCLA: None.

SARA TITLE III, Section 313 Toxic Chemicals: None.

– Other Information

The data and information given on the safety data sheet are based on literature and/or documentation submitted to us. These data do not guarantee any properties and do not dispense with the need for tests and investigations being made by the end--user. Existing regulations and laws have to be customer on his own responsibility.