



SAFETY DATA SHEET
(Globally Harmonized System)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1 Product identifier
SEL-PLEX® PREMIX (600 PPM)
- 1.2 Other means of identification Not applicable
- 1.3 Recommended use of the chemical and restrictions on use
SEL-PLEX® PREMIX (600 PPM) is selenium yeast for use in formulating complete feeds for pigs, chickens, turkeys, and cattle. For use in free-choice salt mineral mixtures and feed supplements for limit feeding for beef cattle.
- 1.4 Details of the supplier of the safety data sheet
Alltech Inc.
3031 Catnip Hill Road
Nicholasville, KY 40356
Phone: (01) (859) 885-9613 [U.S.A.]
Fax: (01) (859) 887-6736 [U.S.A.]
- 1.5 Emergency telephone number
Chem Trec: 1-800-424-9300 24 hours

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
H Statements:
May create a flash fire or explosion hazard if dust of certain particle size is suspended in air at sufficient concentration in a confined space and exposed to an ignition source.
P Statements:
Dust may burn if suspended in air and may create a flash fire/explosion hazard. Avoid ignition source. Product is not generally considered hazardous, but dust generated through downstream activities that may reduce its particle size may create hazardous conditions.
- 2.2 GHS Label elements Not applicable
- 2.3 Other hazards
Inhalation: Exposure to dust may cause irritation to the nose, throat or respiratory system. If application creates dust, use appropriate approved respiratory protection. Persons with allergies should avoid exposure.
Skin Contact: Skin contact may cause a slight irritation. Symptoms may include redness, itching and pain. Persons with allergies should avoid exposure.
Eye Contact: Product may cause slight irritation. Symptoms include redness, itching and pain.

Ingestion: Not found to be toxic by oral exposure. Ingestion of this product may cause slight irritation.

Chronic Health Effects: Not identified.

SECTION 3: Composition/information of ingredients

3.1 Substances Not applicable

3.2 Mixtures

CAS#:	Component	Weight %
471-34-1	Calcium carbonate	Not disclosed
NA	Selenium yeast	Not disclosed
NA	Brewers dried yeast	Not disclosed
NA	Corn distillers dried grains.	Not disclosed

NA: Not applicable

SECTION 4: First aid measures

4.1 Description of first aid measures

Eyes: Flush eyes immediately with copious amounts of clean water for 15 minutes. If irritation or redness persists, seek medical attention if allergic response exhibited.

Skin: Remove affected clothing immediately. Flush affected area(s) with copious amounts of soap and water. If skin surface is damaged, apply a clean dressing. Wash contaminated clothing before reuse. If irritation or redness develops, seek medical attention immediately.

Inhalation: Remove victim from source and allow to rest in well ventilated area. If breathing is difficult, obtain medical attention immediately.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed Not identified.

4.3 Indication of any immediate medical attention and special treatment needed Not identified.

SECTION 5: Firefighting measures

5.1 Suitable extinguishing media

Use media that is appropriate to treat surrounding fire. Consider alcohol-resistant foam, carbon dioxide, regular dry chemical, or water spray. Do not use strong streams of water or dry chemical if dust can be dispersed into the air. Dust placed in suspension with an ignition source present may flash or explode. Self contained breathing apparatus is required.

5.2 Special hazards arising from the substance or mixture

Evolves carbon dioxide, carbon monoxide or hydrocarbon fumes upon combustion.

5.3 Special protective actions for fire-fighters

Move container from fire area if it can be done without risk. Do not scatter spilled material with high pressure water streams. Use extinguishing agents appropriate for surrounding fire. Avoid inhalation of material or combustion by-products.

Fire fighters should wear self-contained breathing apparatus with full face piece operated in positive pressure mode and protective clothing to prevent contact with skin and eyes.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Ventilate the area. Wear appropriate protective equipment as specified in section 8. Avoid dust formation and avoid inhalation of dust. Use a respirator or a combination filter. Keep unnecessary personnel away.

6.2 Environmental precautions

Place contaminated materials in disposal containers and dispose of in a manner consistent with applicable regulations. Contact local environmental or health authorities for approved disposal of this material. Do not dispose in canals, surface water, or ground water.

6.3 Methods and material for containment and cleaning up

Avoid dispersal of dust in the air (i.e. cleaning dust surfaces with compressed air in the presence of ignition source should not be allowed). Non-sparking tools should be used. Sweep, shovel, or vacuum up the material. Use caution as product may be slippery when wet. Keep product out of sewage and drainage systems and all bodies of water. Clean spills immediately. Ventilate the contaminated area. Thoroughly wash the area with water after a spill.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Remove dust from Area/processing equipment prior to using any heat producing equipment. Avoid contact and inhalation. Do not get in eyes, on skin, on clothing. Wash thoroughly with soap and water after handling. The use of respiratory protection is advised when dust concentrations exceed any established exposure limits (see section 8).

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry place. Open containers should be resealed. Shelf life under these conditions is 36 months.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

Component (CAS#):
Calcium carbonate (CAS#: 471-34-1)
TLV: 10 mg/m³ TWA
PEL: 15 mg/m³ (total), 5 mg/m³ (respirable)

Selenium yeast:
PEL: 0.2 mg(Se)/m³ TWA. This is equivalent to 200 mg/m³ of the SEL-PLEX® 600 product

8.2 Appropriate engineering controls:

Use process enclosure, general dilution ventilation, or local exhaust systems, where necessary to maintain airborne dust concentrations below the applicable regulations. A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits.

8.3 Individual protection measures

- Eye/face: Protective goggles or face shields.
- Skin: Wear impervious gloves and general purpose overalls with elasticized cuffs and leg bottoms. Persons with allergies should avoid exposure.
- Respiratory: Protection is not normally required. Wear a dust mask or other appropriate approved respiratory protection when effective engineering controls are not feasible or during operations that generate airborne dust concentrations exceeding the relevant standards. A respiratory protection program that meets applicable requirements whenever workplace conditions warrant a respirator's use. Persons with allergies should avoid exposure.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- | | |
|--|----------------------------------|
| (a) Physical appearance | Light brown, free-flowing powder |
| (b) Odour | Typical yeast like |
| (c) Odour Threshold | Not available |
| (d) Bulk Density | Not available |
| (e) pH | Not available |
| (f) Melting point/freezing point | Not available |
| (g) Initial boiling point | Not available |
| (h) Flash point | Not available |
| (i) Evaporation rate | Not available |
| (j) Flammability | Not available |
| (k) Upper/lower flammability or explosive limits | Not available |
| (l) Vapour pressure | Not available |
| (m) Vapour density | Not available |
| (n) Relative density | Not available |
| (o) Solubility | Not available |
| (p) Partition coefficient: n-octanol/water | Not available |
| (q) Auto ignition temperature | Not available |
| (r) Decomposition temperature | Not available |
| (s) Viscosity | Not available |

9.2 Other information

To the best of our knowledge the chemical, physical, and toxicological properties of this product have not been thoroughly investigated.

SECTION 10: Stability and reactivity

- | | | |
|------|------------------------------------|--|
| 10.1 | Reactivity | Not available |
| 10.2 | Chemical stability | Product is stable under normal storage conditions (21 °C, 1atm). |
| 10.3 | Possibility of hazardous reactions | Not available |

- | | | |
|------|----------------------------------|---|
| 10.4 | Conditions to avoid | Avoid moisture, heat and sources of ignition. |
| 10.5 | Incompatible materials | Not available |
| 10.6 | Hazardous decomposition products | Not available |

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- | | |
|---------------------------------------|---|
| (a) Acute toxicity | Calcium carbonate (CAS#: 471-34-1)
Oral[rat]: 6450 mg/kg |
| (b) Skin corrosion/irritation | Selenium yeast
Oral[rat]: >2000 mg/kg
Not expected to be toxic. Exposure may cause slight irritation. |
| (c) Serious eye damage/irritation | Not available |
| (d) Respiratory or skin sensitization | Not available |
| (e) Germ cell mutagenicity | Not available |
| (f) Carcinogenicity | Not applicable |
| (g) Reproductive toxicity | Not applicable |
| (h) STOT-single exposure | Not applicable |
| (i) STOT-repeated exposure | Not applicable |
| (j) Aspiration hazard | Not applicable |
- 11.2 Information on the likely routes of exposure Not applicable
- 11.3 Symptoms related to the physical, chemical and toxicological characteristics Not applicable
- 11.4 Delayed and immediate effects and also chronic effects from short and long term exposure
Not applicable
- 11.5 Other information
Other toxicological information: To the best of our knowledge the chemical, physical and toxicological properties of this product have not been thoroughly investigated.

SECTION 12: Ecological information

- | | | |
|------|-------------------------------|---------------|
| 12.1 | Toxicity | Not available |
| | Component (CAS#): | |
| | Test & Species: | |
| 12.2 | Persistence and degradability | Not available |
| 12.3 | Bioaccumulative potential | Not available |
| 12.4 | Mobility in soil | Not available |
| 12.6 | Other adverse effects | Not available |

SECTION 13: Disposal considerations

- | | | |
|------|-------------------------|----------------|
| 13.1 | Waste treatment methods | Not identified |
|------|-------------------------|----------------|
- Disposal Instructions: Consult local, state and/or provincial environmental regulatory authorities for acceptable disposal procedures and locations.

SEL-PLEX® PREMIX (600 PPM)

Completion Date: 29/05/2015
Revision Date: 29/05/2015
Version Number: 1

SECTION 14: Transport information

- | | | |
|------|---|----------------|
| 14.1 | UN number | Not applicable |
| 14.2 | UN proper shipping name | Not applicable |
| 14.3 | Transport hazard class(es) | Not applicable |
| 14.4 | Packing group | Not applicable |
| 14.5 | Environmental hazards | Not applicable |
| 14.6 | Special precautions for user | Not applicable |
| 14.7 | Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable |

SECTION 15: Regulatory information

- 15.1 Safety, health, and environmental regulation/legislation specific for the substance or mixture
Not available

SECTION 16: Other information

Preparation Date: 29 May 2015
Issue Date: 29 May 2015
Previous Issue Date: None

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