



# AUSOIL PTY LTD

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## TECHNICAL DATASHEET

### PERFECTOSE-S

DENSITY	: LIMIT:1.18 – 1.20GM/CC
pH	: LIMIT :4.0 – 5.0
KJELDAHL NITROGEN	: LIMIT:MIN.4.39% W/V
TOTAL AMINO ACIDS	: LIMIT:MIN.28.0% W/V
CALCIUM CONTENT	: LIMIT:MIN.5.0%W/V
ZINC CONTENT	: LIMIT:MIN.1.0% W/V
BORON	: LIMIT:MIN.0.2% W/V

Perfectose - S is a Calcium, Zinc and Boron amino acids chelates with calcium 100% available to the plants. The presence of Amino Acids, a natural bioactivator, improves the biological activity of the soil. It helps to correct Calcium, Boron and Zinc deficiencies in plants when applied as foliar spray. Calcium is macro element which moves slowly in the plant & makes it necessary to carry out repeated applications of chelated calcium.

Perfectose - S supplies calcium fully chelated with Amino Acids with mol. wt. of less than 400 gm. per mole which helps faster penetration through stoma.

Perfectose - S improves soil structure by improving growth of soil micro-organisms. It reduces pH of the soil with high sodium content from 9.0 to 7.5 by leaching out sodium leading to less compact soil.

These two effects synergistically improve the porosity, aeration, permeability & water retention capacity of the soil.

Perfectose - S reduces the salinity of the soil due to amino acids which replaces sodium from the clay-humic structured complex encouraging its lixiviation & improving the soil structure.

#### Application

##### 1) Soil Application

- Perfectose - S Can be applied by irrigation system, flooding irrigation, by furrows, sprinkling & overall through drip irrigation.
- To correct salinity & improve the soil structure. Dose : 2 - 3 Lts. Perfectose - S per Hectare

##### 2) For stimulation of plant metabolism & calcium deficiency correction for Olive, Tomato, Strawberry, Lettuce, Pepper, Apple, Pear etc. Dose :650ml in 650 lts of water per hectare and use as foliar spray.

##### Dose

3 - 4 lts. Perfectose - S per Hectare.

Perfectose - S is stable from 5°c to 40° c & can be stored at this temperature without loss of any biochemical activity for 3 years.

Perfectose - S is an environmentally safe product & is safe to plants, animals & human.

# MATERIAL SAFETY DATA SHEET

- 1) Identification of the substance/preparation  
Product Name : **PERFECTOSE-S**  
(Trade Name & Synonyms)
- 2) Composition/Information on Ingredient  
Chemical Name : Protein Hydrolysate Solution  
CAS NO. : 9015-54-7
- 3) Hazards Identification  
Non Listed : NON HAZARDOUS, NON TOXIC, NON CORROSIVE, NON PATHOGENIC
- 4) First Aid Measures  
Skin Contact : Wash with water  
Eye Contact : Flush eyes with plenty of water for 15 minutes.  
After Swallowing : Induce vomiting by sticking finger down throat or by giving soapy or strong salty water to drink. Repeat until vomit is clear. May cause diarrhoea. Call physician.
- 5) Fire Fighting Measures : Non Combustible
- 6) Accidental Release Measure  
Procedure for cleaning absorption : Clean up with water to prevent slipping or falling hazard.
- 7) Handling & Storage  
Handling : Safe for Handling  
Storage : Store in a cool dry place. Keep container closed when not in use.
- 8) Exposure Control/Personal Protection : No Protection Required
- 9) Physical & Chemical Properties  
Solubility in water : Complete  
Density : 1.18 – 1.20 gm/cc  
Kjeldahl Protein Nitrogen : Min. 4.39% w/v  
Total Amino Acids : Min. 28.0% w/v  
Boiling Point : 110°C  
Ignition Temperature : Not Available  
Flash Point : N.A.  
Explosion Limits  
Lower : Non Explosive (Aqueous Solution)  
Upper : Non Explosive (Aqueous Solution)
- 10) Stability & Reactivity  
Condition to be avoided : None  
Incompatibility (Material to be avoided) : None  
Hazardous decomposition Product : None  
Polymerization : None
- 11) Toxicological Information  
Acute Toxicity : Non Toxic  
LD 50 Oral in Mice : >5000mg/kg body weight  
LD 50 Sprague Dawley Rat : >5000mg/kg body weight  
Further Toxicological Information : No Toxicological information

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|----------------------------|---|
| 12) Ecological Information |   |
| Ecotoxic effects           | :Not available  |
| Further Ecological Data    | ECOSAFE PRODUCT<br>No ecological problems are expected to occur when the product is handled and used with due care and attention. |
| 13) Disposal Consideration |   |
| Product                    | :Contact authorities or approved waste disposal company to dispose as "Biodegradable" waste.                                      |
| Packaging                  | :Disposal in compliance with official regulation.   |
| 14) Transport Information  |   |
| Note                       | :Not subjected to transport regulations.  |
| 15) Regulatory Information |   |
| Labelling                  | :Not Required   |
| Hazard Symbol              | :Not Required   |
| Risk Phrases               | :Not Required   |
| 16) Other Information      | :None   |

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions, it need not represent a guarantee of the properties of the product.