

Seasol™

ADVANCED ROOT BOOST

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NOTE - Read Entire Label. Use only in accordance with the label directions.

Seasol™ ADVANCED ROOT BOOST may increase vigor in growing plants.

STORAGE: Store in a clean, dry place at temperatures between freezing and 110°F. Do not store for longer than 24 hours once diluted. Use immediately if mixed with an agricultural chemical. Do not store in direct sunlight. Keep container closed.

COMPATIBILITY: Seasol™ ADVANCED ROOT BOOST can be diluted with water or liquid fertilizer. Seasol™ ADVANCED ROOT BOOST can be mixed with many agricultural chemicals but compatibility with the chemical should be checked first.

DO NOT MIX Seasol™ ADVANCED ROOT BOOST with CALCIUM products. Do not mix Seasol™ ADVANCED ROOT BOOST with emulsifiable concentrate pesticides.

Pre-dilution of all products to be mixed should ensure compatibility but conducting a "jar test" by mixing small quantities of diluted products together and observing for signs of precipitation is recommended.

DIRECTIONS FOR USE:

SHAKE OR AGITATE WELL BEFORE USE.

Seasol™ ADVANCED ROOT BOOST SHOULD NOT BE APPLIED UNDILUTED.

Use in conjunction with a calibrated soil nutrient analysis and fertility program.

Lot No:

Guaranteed Analysis

Soluble Potash (K₂O)

3%

Derived from kelp and potassium hydroxide

May be Harmful if Swallowed

May Cause Skin and Eye Irritation

KEEP OUT of REACH of CHILDREN

If swallowed, do not induce vomiting, seek prompt medical attention. May irritate skin and eyes. In case of skin or eye irritation, wash affected areas with copious amounts of water, if irritation persists seek prompt medical attention.

Guaranteed by: **Seasol Inc**
541 Jefferson Ave., Ste. 100
Redwood City, CA 94063

Manufactured in Australia By
Seasol International Pty Ltd

1027 Mountain Highway, Bayswater, Victoria 3153 Australia.

Seasol™ is a Registered Trade Mark of the Seasol International Pty Ltd

Net Content: 265 U.S. Gallons / 1,000 Liters

Net Weight: 2,425 lbs / 1,100 kg.

Weight Per Gallon: 9.15lbs per gallon / 1.096 kg per liter
at 68°F.

Target: Soil and Foliage.

Application methods:

Fertigation;

Drip irrigation

Micro-sprinklers

Water-run (flood)

Foliar Spray

Recommended application equipment: Fertigation equipment, or foliar application spray equipment.

Dilute desired amount of **Seasol™ ADVANCED ROOT BOOST** in a minimum of 50 parts water as a premix for injection, or foliar application. Keep mixed solutions of **Seasol™ ADVANCED ROOT BOOST** well agitated during application.

Rate per Acre per application:

2 – 4 Quarts per field acre

Reapplying: 3 times during growing season.
Consult with crop consultant for specific timing.

LIMITED WARRANTY: The manufacturer warrants that this product conform with the description on this label within customary industry standards and will be fit for the purpose described on the label. However, because conditions and methods of storage, handling, and use, and because efficacy of this product may be influenced by environmental conditions and application procedures beyond the control of the manufacturer, Seasol International Pty Ltd will warrant only identity and composition at the time of delivery and it shall not be liable for any consequential or incidental damages arising from the use or inability to use this product. If terms of Limited Warranty are not acceptable, return unopened product at once.

SAFETY DATA SHEET

SEASOL ADVANCED ROOT BOOST

Infosafe No.: GEN1D
Version No.: 1.0
Issued Date: 04/01/2017
Issued by: SEASOL INC

1. IDENTIFICATION

GHS Product Identifier

SEASOL ADVANCED ROOT BOOST

Product Code

20008EX

Company Name

SEASOL INC

Address

541 Jefferson Ave., Ste 100, Redwood City, San Mateo CA 94603
UNITED STATES

Telephone/Fax Number

Telephone: +61-437-318-311

Emergency phone number

559-280-777

E-mail Address

alick@seasolinc.com

Recommended use of the chemical and restrictions on use

Soil revitaliser and plant tonic.

2. HAZARD IDENTIFICATION

GHS classification of the substance/mixture

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Signal Word (s)

WARNING

Hazard Statement (s)

Causes serious eye irritation.

Pictogram (s)

Exclamation mark

**Precautionary statement – Prevention**

Wash contaminated skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement – Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Other Information

HMIS rating: not available

3. COMPOSITION/INFORMATION ON INGREDIENTS**Ingredients**

Name	CAS	EINECS	Proportion
Potassium hydroxide	1310-58-3	215-181-3	<1 %
Ingredients determined not to be hazardous, including water			Balance

4. FIRST-AID MEASURES**Inhalation**

If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms develop and/or persist seek medical attention.

Ingestion

Do not induce vomiting. Wash out mouth thoroughly with water. Seek immediate medical attention.

Skin

Wash affected area thoroughly with soap and water. If symptoms develop seek medical attention.

Eye contact

If in eyes, hold eyelids apart and rinse the eyes cautiously with water for several minutes. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. Seek medical attention.

First Aid Facilities

Eyewash, safety shower and normal washroom facilities.

Advice to Doctor

Treat symptomatically.

Other Information

For advice in an emergency, contact a Poisons Information Centre or a doctor at once.

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Use appropriate fire extinguisher for surrounding environment.

Hazards from Combustion Products

Non combustible material.

Specific Hazards Arising From The Chemical

This product is non combustible. However, following evaporation of aqueous component under fire conditions, the non-aqueous component may decompose and/or burn.

Decomposition Temperature

Not available

Precautions in connection with Fire

Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Fight fire from safe location.

Other Information

NFPA rating: Not available

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Wear appropriate personal protective equipment and clothing to prevent exposure. Increase ventilation. If possible contain the spill. Place inert absorbent material onto spillage. As a water based product, if spilt on electrical equipment the product will cause short-circuits. Collect the material and place into a suitable labelled container. Do not dilute material but contain. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid inhalation of vapours and mists, and skin or eye contact. Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of mists or vapours in the work atmosphere. Maintain high standards of personal hygiene i.e. washing hands prior to eating, drinking, smoking or using toilet facilities.

Conditions for safe storage, including any incompatibilities

Protect from freezing. Store in a cool, dry, well-ventilated area, out of direct sunlight. Store in suitable, labelled containers. Keep containers tightly closed. Store away from incompatible materials. Ensure that storage conditions comply with applicable local and national regulations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values

Substance	Regulations	Exposure Duration	Exposure Limit	Units	Notes
Potassium hydroxide	ACGIH	TWA	2	mg/m ³	(ceiling limit), URT, eye & skin irr

Biological Limit Values

No biological limits allocated.

Appropriate Engineering Controls

This substance is hazardous and should be used with a local exhaust ventilation system, drawing vapours away from workers' breathing zone. If the engineering controls are not sufficient to maintain concentrations of vapours/mists below the exposure standards, suitable respiratory protection must be worn.

Respiratory Protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements.

Eye Protection

Safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform to relevant regulations.

Hand Protection

Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations.

Body Protection

Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form

Liquid

Appearance

Dark brown liquid

Colour

Dark brown

Odour

Seaside like

Decomposition Temperature

Not available

Melting Point

Not available

Boiling Point

Not available

Solubility in Water

Completely soluble

Specific Gravity

1.1-1.2 (25°C)
(77°F)

pH

11.5-12.5

Vapour Pressure

Not available

Vapour Density (Air=1)

Not available

Evaporation Rate

Not available

Odour Threshold

Not available

Viscosity

Refer to Section 9: Kinematic Viscosity and Dynamic Viscosity

Volatile Component

Not available

Partition Coefficient: n-octanol/water

Not available

Flash Point

Not applicable

Flammability

Non combustible material.

Auto-Ignition Temperature

Not available

Flammable Limits - Lower

Not applicable

Flammable Limits - Upper

Not applicable

Explosion Properties

Not available

Oxidising Properties

Not available

Kinematic Viscosity

Not available

Dynamic Viscosity

Not available

10. STABILITY AND REACTIVITY

Reactivity

Refer to Section 10: Possibility of hazardous reactions

Chemical Stability

Stable under normal conditions of storage and handling.

Conditions to Avoid

Extremes of temperature and direct sunlight.

Incompatible materials

Not available

Hazardous Decomposition Products

Thermal decomposition may result in the release of toxic and/or irritating fumes

Possibility of hazardous reactions

Not available

Hazardous Polymerization

Not available

11. TOXICOLOGICAL INFORMATION

Toxicology Information

No toxicity data available for this material.

Ingestion

Ingestion of this product may irritate the gastric tract causing nausea and vomiting.

Inhalation

Inhalation of product vapours may cause irritation of the nose, throat and respiratory system.

Skin

May be irritating to skin. The symptoms may include redness, itching and swelling.

Skin Irritation Test

Species: unknown

Result: non-irritant

Method: OECD Test Guideline 439

Skin Corrosiveness Test

Summary of Corrositex Test Results

Reference: 1R01p114-7

Sample: Liquid Seaweed Extract

Conc. Tested: 100%

pH: 12.5

Corrositex Category: 2

UN Packing Group: non-corrosive

GHS Skin Corrosion Category: non-corrosive

Corrositex Time (minutes)

Replicate #1: 113

Replicate #2: 111

Replicate #3: 116

Replicate #4: 116

Mean: 114

The sample was tested according to the Corrositex in-vitro protocol.

The test procedure satisfies the requirements of the following authorities:-

-U.S. Department of Transport (DOT) DOT-E 10904
-Environmental Protection Agency (EPA) SW-846 Method 1120

Eye

Causes serious eye irritation. On eye contact this product will cause tearing, stinging, blurred vision, and redness.

Respiratory sensitisation

Not expected to be a respiratory sensitiser.

Skin Sensitisation

Not expected to be a skin sensitiser.

Germ cell mutagenicity

Not considered to be a mutagenic hazard.

Carcinogenicity

Not considered to be a carcinogenic hazard.

Reproductive Toxicity

Not considered to be toxic to reproduction.

STOT-single exposure

Not expected to cause toxicity to a specific target organ.

STOT-repeated exposure

Not expected to cause toxicity to a specific target organ.

Aspiration Hazard

Not expected to be an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicity

No ecological data available for this material.

Persistence and degradability

Not available

Mobility

Not available

Bioaccumulative Potential

Not available

Other Adverse Effects

Not available

Environmental Protection

Prevent this material entering waterways, drains and sewers.

13. DISPOSAL CONSIDERATIONS

Disposal considerations

The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations.

14. TRANSPORT INFORMATION

Transport Information

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Not classified as Dangerous Goods by the criteria of the Department of Transport (DOT).

Special Precautions for User

Not available

UN Number (Air Transport, ICAO)

None Allocated

IATA/ICAO Proper Shipping Name

Not dangerous for conveyance under IATA code

IATA/ICAO Hazard Class

None Allocated

IMDG UN No

None Allocated

IMDG Proper Shipping Name

Not dangerous for conveyance under IMO/IMDG code

IMDG Hazard Class

None Allocated

IMDG Marine pollutant

No

DOT UN NO

None Allocated

DOT Proper Shipping Name

Not dangerous for conveyance under DOT code

DOT Class

None Allocated

DOT Identification (DOT)**DOT Special Requirements (Special)****DOT Exceptions (Exceptions)****DOT Symbols (Symbols)****DOT Non-Bulk Requirements (NON_BULK)****DOT Bulk Requirements (BULK)****DOT Max. Passgr. Air/Rail. (MAXAIR)****DOT Max. Cargo Only Air/Rail. (MAXCARGO)****DOT Stowage (Stowage)****DOT Other Requirements (OTHER)****Transport in Bulk**

Not available

Other Information

UN Packing Group: non-corrosive

Refer to Skin Corrosiveness Test in Section 11: Toxicological Information; Skin.

15. REGULATORY INFORMATION

Regulatory information

The Hazardous Substance List: listed.

Source:

The Hazardous Substance List.

Chapter 3.2. California Occupational Safety and Health Regulations (CAL/OSHA); Subchapter 1. Regulations of the Director of Industrial Relations; Article 5. Hazardous Substances Information and Training.

California Proposition 65

Not Listed.

SARA (313) Chemicals

Not Listed.

Reportable Quantity

1000lbs

16. OTHER INFORMATION

Date of preparation or last revision of SDS

SDS Created: January 2017

References

ANSI Z400.1/Z129.1-2010. American National Standard for Hazardous Workplace Chemicals – Hazard Evaluation and Safety Data Sheet and Precautionary Labeling Preparation.

Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH).

OSHA Table Z-1 Limits for Air Contaminants (June 30, 1993)(29 CFR 1910.1000)(1971 Permissible Exposure Limits (PELs)).

END OF SDS

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