# SAFETY DATA SHEET



Revision date 12-Apr-2024 Revision Number 4

## 1. Identification

**Product identifier** 

Product Name Abamectin 0.15 Select

Other means of identification

**Product Code(s)** 83100-5-89442

Synonyms None

Registration Number(s) 83100-5-89442

Recommended use of the chemical and restrictions on use

Recommended use Insecticide Miticide

Restrictions on use Follow label instructions

Details of the supplier of the safety data sheet

#### **Company Address**

PrimeSource, A Division of Albaugh LLC. 1525 NE 36th St Ankeny, IA 50021 USA

#### Emergency telephone number

For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident:

• Call CHEMTREC Day or Night within USA and Canada: 1-800-424-9300, Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

For Medical Emergencies Only:

• Call Albaugh LLC Day or Night within USA and Canada: 1-888-347-6732

This product is an EPA FIFRA registered pesticide. Some classifications on this SDS are not the same as the FIFRA label. Certain sections of this SDS are superseded by federal law governed by US EPA for a registered pesticide. Please see Section 15. REGULATORY INFORMATION for explanation.

## 2. Hazard(s) identification

### Classification

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Serious eye damage/eye irritation	Category 2A
Reproductive toxicity	Category 1B
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 1
Flammable liquids	Category 4

#### Hazards not otherwise classified (HNOC)

Not applicable

#### Label elements

### Danger

#### Hazard statements

Harmful if swallowed

Harmful if inhaled

Causes serious eve irritation

May damage fertility or the unborn child

May cause respiratory irritation

Causes damage to organs through prolonged or repeated exposure

Combustible liquid



**Odor** Characteristic Appearance Liquid Physical state Liquid

## **Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Wear protective gloves/clothing and eye/face protection

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Use only outdoors or in a well-ventilated area

Do not breathe dust/fume/gas/mist/vapors/spray

Keep away from flames and hot surfaces. - No smoking

Keep cool

#### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

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

IF INHALED: Remove person to fresh air and keep comfortable for breathing

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell

In case of fire: Use CO2, dry chemical, or foam to extinguish

#### **Precautionary Statements - Storage**

Store locked up

Store in a well-ventilated place. Keep container tightly closed

## **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Other information

May be harmful in contact with skin. Very toxic to aquatic life with long lasting effects. Very toxic to aquatic life.

## 3. Composition/information on ingredients

#### Substance

Not applicable.

#### <u>Mixture</u>

Chemical name	CAS No	Weight-%	Active Ingredient
NMP (N-methyl-2-pyrrolidone)	872-50-4	29.10-30.90	

1-Hexanol	111-27-3	25.76-27.36	
Castor oil, ethoxylated	61791-12-6	16.15-17.85	
Abamectin	71751-41-2	1.90-2.10	X
BHT (2,6-di-tert-p-cresol)	128-37-0	0.90-1.10	
Acetic Acid	64-19-7	0.36-0.44	
Other Ingredients	PROPRIETARY	>20.00	

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. First-aid measures

### **Description of first aid measures**

General advice Show this safety data sheet to the doctor in attendance.

Inhalation Remove to fresh air. IF exposed or concerned: Get medical advice/attention. If symptoms

persist, call a physician. If breathing has stopped, give artificial respiration. Get medical

attention immediately.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes

and shoes.

Ingestion Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

person. Get medical attention.

Self-protection of the first aider Remove all sources of ignition. Ensure that medical personnel are aware of the material(s)

involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid breathing vapors or mists. Use personal

protective equipment as required. See section 8 for more information.

Most important symptoms and effects, both acute and delayed

**Symptoms** May cause redness and tearing of the eyes. Burning sensation. Coughing and/ or wheezing.

Difficulty in breathing.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

## 5. Fire-fighting measures

Suitable Extinguishing Media

Large Fire

Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.

CAUTION: Use of water spray when fighting fire may be inefficient.

Do not scatter spilled material with high pressure water streams. Unsuitable extinguishing media

Specific hazards arising from the

chemical

Keep product and empty container away from heat and sources of ignition. In the event of

fire, cool tanks with water spray.

**Explosion data** 

Sensitivity to mechanical impact None.

Sensitivity to static discharge

Yes.

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

**Personal precautions** Evacuate personnel to safe areas. Use personal protective equipment as required. See

section 8 for more information. Take precautionary measures against static discharges. Do not touch or walk through spilled material. Ensure adequate ventilation. Avoid contact with

skin, eyes or clothing. Avoid breathing vapors or mists.

**Other information** Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Do not touch or walk through spilled material. Dike far

ahead of liquid spill for later disposal.

Methods for cleaning up Take precautionary measures against static discharges. Dam up. Soak up with inert

absorbent material. Pick up and transfer to properly labeled containers.

## 7. Handling and storage

#### Precautions for safe handling

surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Use with local exhaust ventilation. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes

or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. In case of insufficient ventilation, wear suitable respiratory equipment.

#### Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat,

sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Keep out of the reach of

children. Store locked up.

## 8. Exposure controls/personal protection

#### Control parameters

**Exposure Limits** The following ingredients are the only ingredients of the product above the cut-off level (or

level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure

limits from the sources listed here.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
BHT (2,6-di-tert-p-cresol)	TWA: 2 mg/m³ inhalable	(vacated) TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>
128-37-0	fraction and vapor	, , , , , ,	- 3
Acetic Acid	STEL: 15 ppm	TWA: 10 ppm	IDLH: 50 ppm
64-19-7	TWA: 10 ppm	TWA: 25 mg/m <sup>3</sup>	TWA: 10 ppm
		(vacated) TWA: 10 ppm	TWA: 25 mg/m <sup>3</sup>
		(vacated) TWA: 25 mg/m <sup>3</sup>	STEL: 15 ppm

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	STEL: 37 mg/m <sup>3</sup>

#### **Biological occupational exposure limits**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Chemical name	ACGIH
NMP (N-methyl-2-pyrrolidone)	100 mg/L - urine (5-Hydroxy-N-methyl-2-pyrrolidone) - end
872-50-4	of shift

#### Appropriate engineering controls

**Engineering controls** Showers

> Evewash stations Ventilation systems.

#### Individual protection measures, such as personal protective equipment

Tight sealing safety goggles. Eye/face protection

**Hand protection** Wear suitable gloves.

Wear suitable protective clothing. Skin and body protection

No protective equipment is needed under normal use conditions. If exposure limits are Respiratory protection

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Do not eat, drink or smoke when using this product. Contaminated work clothing should not

> be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

## 9. Physical and chemical properties

Information on basic physical and chemical properties

**Physical state** Liquid **Appearance** Liquid light yellow Color Characteristic Odor

**Odor threshold** No information available

Property Values Remarks • Method

3.0 - 4.0 1% in water pН

pH (as aqueous solution)

Melting point / freezing point No data available Initial boiling point and boiling rangeNo data available 76.5 °C / 169.7 °F Flash point No data available **Evaporation rate** No data available **Flammability** 

Flammability Limit in Air

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Vapor pressure No data available No data available Relative vapor density No data available Relative density No data available Water solubility Dispersible in water Solubility(ies) **Partition coefficient** No data available **Autoignition temperature** No data available

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**Decomposition temperature** 

Kinematic viscosity

No data available

Pynamic viscosity

No data available

Other information

Explosive properties
Oxidizing properties
No information available
VOC content
No information available
No information available
0.966 @ 25°C \*

Bulk density 0.300 © 25 0

\*Listed density is an approximate value and does not necessarily represent that of a specific batch

## 10. Stability and reactivity

**Reactivity** No information available.

**Chemical stability** Stable under normal conditions.

Possibility of hazardous reactions 
None under normal processing.

Conditions to avoid Heat, flames and sparks. Excessive heat.

**Incompatible materials**None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

## 11. Toxicological information

### Information on likely routes of exposure

**Product Information** 

**Inhalation** Specific test data for the substance or mixture is not available. May cause irritation of

respiratory tract. Harmful by inhalation. (based on components).

**Eye contact** Specific test data for the substance or mixture is not available. Causes serious eye irritation.

(based on components). May cause redness, itching, and pain.

**Skin contact** Specific test data for the substance or mixture is not available. May cause irritation.

Prolonged contact may cause redness and irritation. May be harmful in contact with skin.

**Ingestion** Specific test data for the substance or mixture is not available. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if swallowed. (based on

components).

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms May cause redness and tearing of the eyes. Coughing and/ or wheezing.

**Acute toxicity** 

**Numerical measures of toxicity** 

 Oral LD50
 303 mg/kg

 Dermal LD50
 > 2020 mg/kg

 Inhalation LC50
 2.29 mg/l

**Component Information** 

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Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
NMP (N-methyl-2-pyrrolidone) 872-50-4	= 3914 mg/kg (Rat)	= 8 g/kg(Rabbit)	> 5.1 mg/L (Rat) 4 h
1-Hexanol 111-27-3	= 3210 mg/kg (Rat)	1500 - 2000 mg/kg (Rabbit)	> 21 mg/L (Rat)1 h
Abamectin 71751-41-2	= 10 mg/kg ( Rat )	= 2000 mg/kg ( Rabbit )	= 1100 mg/m³ ( Rat ) 4 h
BHT (2,6-di-tert-p-cresol) 128-37-0	> 2930 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
Acetic Acid 64-19-7	= 3310 mg/kg (Rat)	= 1060 mg/kg (Rabbit)	= 11.4 mg/L (Rat) 4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** Not classified.

Serious eye damage/eye irritation Causes serious eye irritation.

**Respiratory or skin sensitization** Did not cause sensitization on laboratory animals.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Abamectin	-	Group 2A	-	-
71751-41-2				
BHT (2,6-di-tert-p-cresol)	-	Group 3	-	-
128-37-0				

Legend

IARC (International Agency for Research on Cancer)

Group 2A - Probably Carcinogenic to Humans Group 3 - Not Classifiable as to Carcinogenicity in Humans

Reproductive toxicity Contains a known or suspected reproductive toxin. Classification based on data available

for ingredients. May damage fertility or the unborn child.

**STOT - single exposure** May cause respiratory irritation. May cause drowsiness or dizziness.

STOT - repeated exposure Causes damage to organs through prolonged or repeated exposure.

Target organ effects Eyes, Skin.

**Aspiration hazard** No information available.

Other adverse effects No information available.

Interactive effects No information available.

# 12. Ecological information

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
NMP	EC50: >500mg/L (72h,	LC50: =832mg/L (96h,	-	EC50: =4897mg/L (48h,
(N-methyl-2-pyrrolidone	) Desmodesmus	Lepomis macrochirus)		Daphnia magna)
872-50-4	subspicatus)	LC50: =1072mg/L (96h,		
		Pimephales promelas)		
		LC50: =1400mg/L (96h,		
		Poecilia reticulata)		
1-Hexanol	-	LC50: 89.7 - 106mg/L	-	_

111-27-3		(96h, Pimephales promelas) LC50: =144mg/L (96h, Brachydanio rerio)		
Castor oil, ethoxylated 61791-12-6	-	LC50: >45mg/L (96h, Danio rerio)	-	-
BHT (2,6-di-tert-p-cresol) 128-37-0	EC50: =6mg/L (72h, Pseudokirchneriella subcapitata) EC50: >0.42mg/L (72h, Desmodesmus subspicatus)	-	-	-
Acetic Acid 64-19-7	-	LC50: =79mg/L (96h, Pimephales promelas) LC50: =75mg/L (96h, Lepomis macrochirus)	-	EC50: =65mg/L (48h, Daphnia magna) EC50: =47mg/L (24h, Daphnia magna)

Persistence and degradability No information available.

**Bioaccumulation** There is no data for this product.

**Component Information** 

Chemical name	Partition coefficient
NMP (N-methyl-2-pyrrolidone) 872-50-4	-0.46
1-Hexanol 111-27-3	1.8
BHT (2,6-di-tert-p-cresol) 128-37-0	5.1
Acetic Acid 64-19-7	-0.31

Other adverse effects No information available.

# 13. Disposal considerations

**Disposal methods** 

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Do not reuse empty containers.

California Hazardous Waste Status This product contains one or more substances that are listed with the State of California as

a hazardous waste.

## 14. Transport information

Not regulated DOT

**Notes** Ground transport Not Regulated by US DOT Not Regulated by Canadian TDG Transport by

sea (IMDG) UN 3082; ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Abamectin); 9; III; Marine Pollutant Air transport (ICAO/IATA) UN 3082;

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Abamectin); 9; III

**UN** number or ID number 3082 Environmentally hazardous substance, liquid, n.o.s.

**UN proper shipping name** Transport hazard class(es)

9

Packing group

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## 15. Regulatory information

#### U.S. EPA Label Information

### EPA Pesticide Registration Number 83100-5-89442

EPA Pesticide Label WARNING. Causes substantial but temporary eye injury. Harmful if swallowed. Harmful if

inhaled. Prolonged or frequently repeated skin contact may cause allergic reactions in some

individuals.

#### **International Inventories**

Does not comply **TSCA DSL/NDSL** Does not comply Does not comply **EINECS/ELINCS** Does not comply **ENCS IECSC** Does not comply **KECL** Does not comply **PICCS** Does not comply AIIC Does not comply

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AIIC - Australian Inventory of Industrial Chemicals

#### **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %
NMP (N-methyl-2-pyrrolidone) - 872-50-4	1.0
Abamectin - 71751-41-2	1.0

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### **CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Acetic Acid 64-19-7	5000 lb	-	-	Х

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Acetic Acid	5000 lb	-

64-19-7	

#### **US State Regulations**

#### **California Proposition 65**

This product contains the following Proposition 65 chemicals:.

Chemical name	California Proposition 65	
NMP (N-methyl-2-pyrrolidone) - 872-50-4	Developmental	
Abamectin - 71751-41-2	Developmental	

#### **U.S. State Right-to-Know Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania
NMP (N-methyl-2-pyrrolidone)	X	X	X
872-50-4			
1-Hexanol	X	-	X
111-27-3			
Abamectin	X	-	-
71751-41-2			
BHT (2,6-di-tert-p-cresol)	X	X	X
128-37-0			
Acetic Acid	X	X	X
64-19-7			

## 16. Other information

NFPAHealth hazards2Flammability2Instability0Special hazards-HMISHealth hazards2\*Flammability2Physical hazards0Personal protectionX

Chronic Hazard Star Legend \*= Chronic Health Hazard

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

## Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Revision date 12-Apr-2024

Revision Note Disclaimer

No information available.

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**End of Safety Data Sheet**