

**BioAdvanced Science-Based Solutions
All-in-One Rose and Flower Care
Ready-to-Use Granules I**

Version 1.0 / USA
38443782

1/9
Revision Date: 01/31/2019

1. IDENTIFICATION

Product Code:
Product Name: BioAdvanced Science-Based Solutions All-in-One Rose and Flower Care Ready-to-Use Granules I
Registration Number: EPA Reg. No. 192-223-92564
Company Name: SBM Life Science Corp
1001 Winstead Drive
Suite 500
Cary, NC 27513
Email address: SDS@corp.sbm-company.com
Emergency Contact: 1-877-229-3763 (24 hours/day)
Product Information: 1-877-229-3724

2. HAZARDS IDENTIFICATION

Reproductive toxicity- Category 2

Appearance: Off white to grey
free flowing granules

Physical state: Solid

Odor: Pungent



Signal Word: Warning
Hazard statements: Suspected of damaging fertility or the unborn child
Precautionary Statements- Prevention: Obtain Special instructions before use
Do not handle until all safety precautions have been read and understood
Wear protective gloves/protective clothing/eye protection/face protection
Precautionary Statements- Response: If exposed or concerned: Get medical advice/attention
Precautionary Statements- Storage: Store locked up
Precautionary Statements- Disposal: Dispose of contents/container to an approved waste disposal plant
Other Hazards: Harmful to aquatic life with long lasting effects

BioAdvanced Science-Based Solutions
All-in-One Rose and Flower Care
Ready-to-Use Granules I

Version 1.0 / USA
38443782

2/9
Revision Date: 01/31/2019

3. Composition/Information on Ingredients

Chemical Name	CAS No.	Weight-%
Proprietary Component 1	Proprietary	50-55
Proprietary Component 4	Proprietary	1-5
Acephate	30560-19-1	1-5
Proprietary Component 6	Proprietary	<1
Tebuconazole	107534-96-3	<1

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First Aid Measures

First Aid Measures

General Advice	Provide this SDS to medical personnel for treatment.
Eye Contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call a poison control center or doctor for treatment advice.
Skin Contact	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.
Inhalation	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
Ingestion	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Most important symptoms and effects

Symptoms	Moderate eye irritation.
-----------------	--------------------------

Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.
---------------------------	------------------------

BioAdvanced Science-Based Solutions
All-in-One Rose and Flower Care
Ready-to-Use Granules I

Version 1.0 / USA
38443782

3/9
Revision Date: 01/31/2019

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Not determined.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Use personal protective equipment as required.

Environmental precautions

Environmental precautions Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing and eye/face protection.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed and store in a cool, dry and well-ventilated place. Store locked up.

Incompatible Materials None known based on information supplied.

BioAdvanced Science-Based Solutions
All-in-One Rose and Flower Care
Ready-to-Use Granules I

Version 1.0 / USA
38443782

4/9
Revision Date: 01/31/2019

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Proprietary Component 1	-	-	TWA: 10 mg/m ³ total dust TWA: 5 mg/m ³ respirable dust
Proprietary Component 6	TWA: 0.025 mg/m ³ respirable particulate matter	TWA: 50 µg/m ³ TWA: 50 µg/m ³ excludes construction work, agricultural operations, and exposures that result from the processing of sorptive clays (vacated) TWA: 0.1 mg/m ³	IDLH: 50 mg/m ³ respirable dust TWA: 0.05 mg/m ³ respirable dust
		respirable dust : (250)/(%SiO ₂ + 5) mppcf TWA respirable fraction : (10)/(%SiO ₂ + 2) mg/m ³ TWA respirable fraction	

Appropriate engineering controls

Engineering Controls Apply technical measures to comply with the occupational exposure limits. Showers. Eyewash stations. Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear eye/face protection. Refer to 29 CFR 1910.133 for eye and face protection regulations.

Skin and Body Protection Wear protective gloves and protective clothing. Refer to 29 CFR 1910.138 for appropriate skin and body protection.

Respiratory Protection Refer to 29 CFR 1910.134 for respiratory protection requirements.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Solid	Odor	Pungent
Appearance	Off white to grey free flowing granules	Odor threshold	Not determined
Color	Off white to grey		

BioAdvanced Science-Based Solutions
All-in-One Rose and Flower Care
Ready-to-Use Granules I

Version 1.0 / USA
38443782

5/9
Revision Date: 01/31/2019

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	7.16	
Melting point /freezing point	Not Determined	
Boiling Point / Boiling Range	Not Determined	
Flash Point	Not Determined	
Evaporation Rate	Not Determined	
Flammability (Solid, Gas)	Not Determined	
Flammability Limit in Air		
Upper Flammability Limit	Not Determined	
Lower Flammability Limit	Not Determined	
Vapor Pressure	Not Determined	
Vapor Density	Not Determined	
Relative Density	Not Determined	
Water Solubility	Not Determined	
Solubility in other solvents	Not Determined	
Partition Coefficient	Not Determined	
Autoignition temperature	Not Determined	
Decomposition Temperature	Not Determined	
Kinematic Viscosity	Not Determined	
Dynamic Viscosity	Not Determined	
Explosive Properties	Not Determined	
Oxidizing Properties	Not Determined	

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to Avoid

Keep out of reach of children.

Incompatible Materials

None known based on information supplied.

Hazardous Decomposition Products

None known based on information supplied.

BioAdvanced Science-Based Solutions
All-in-One Rose and Flower Care
Ready-to-Use Granules I

Version 1.0 / USA
38443782

6/9
Revision Date: 01/31/2019

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	This product has received further evaluation from the manufacturer. The test results provided are reflected in the information below.
Eye Contact	Minimally irritating to the eyes.
Skin Contact	Slightly irritating to the skin.
Inhalation	No signs of gross toxicity.
Ingestion	No signs of gross toxicity.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Proprietary Component 1	= 6450 mg/kg (Rat)	-	-
Proprietary Component 2	= 2600 mg/kg (Rat)	-	-
Proprietary Component 3	> 2000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	-
Proprietary Component 4	= 2840 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
Acephate 30560-19-1	= 700 mg/kg (Rat)	= 2 g/kg (Rabbit) > 2500 mg/kg (Rat) > 2000 mg/kg (Rabbit)	-
Proprietary Component 5	= 3 g/kg (Rat)	> 10 g/kg (Rabbit)	> 42 g/m ³ (Rat) 1 h
Tebuconazole 107534-96-3	= 3352 mg/kg (Rat)	> 5 g/kg (Rat) > 5000 mg/kg (Rat)	> 5093 mg/m ³ (Rat) 4 h > 371 mg/m ³ (Rat) 4 h > 800 mg/m ³ (Rat) 4 h

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

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

Carcinogenicity Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) >5000 mg/kg
ATEmix (inhalation-dust/mist) 2.10 mg/L

BioAdvanced Science-Based Solutions
All-in-One Rose and Flower Care
Ready-to-Use Granules I

Version 1.0 / USA
38443782

7/9
Revision Date: 01/31/2019

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life with long lasting effects.

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Chemical Name	Partition Coefficient
Proprietary Component 4	-5.1

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated Packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.

California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Acephate 30560-19-1	Toxic

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT Not regulated

IATA Not regulated

IMDG Not regulated

BioAdvanced Science-Based Solutions
All-in-One Rose and Flower Care
Ready-to-Use Granules I

Version 1.0 / USA
38443782

8/9
Revision Date: 01/31/2019

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL/NDSL	EINECS/E LINCS	ENCS	IECSC	KECL	PICCS	AICS
Proprietary Component 1	X	X	X	X	X	X	X	X
Proprietary Component 2	X	X	X	X	X	X	X	X
Proprietary Component 3	X	X	X	X	X	X	X	X
Proprietary Component 4	X	X	X	X	X	X	X	X
Acephate	X		X		X	X	X	X
Proprietary Component 5	X	X	X	X	X	X	X	X
Proprietary Component 6	X	X	X	X	X	X	X	X
Tebuconazole	X			X	X	X	X	
Proprietary Component 7	X	X	X	X	X	X	X	X

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
- AICS* - Australian Inventory of Chemical Substances

US Federal Regulations

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Proprietary Component 6 -	Carcinogen

BioAdvanced Science-Based Solutions
All-in-One Rose and Flower Care
Ready-to-Use Granules I

Version 1.0 / USA
38443782

9/9
Revision Date: 01/31/2019

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Proprietary Component 4		X	X
Acephate 30560-19-1	X		
Proprietary Component 6	X	X	X

EPA Pesticide Registration Number EPA Reg. No. 192-223

EPA Statement

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

EPA Pesticide Label

Signal Word: CAUTION Causes moderate eye irritation. Avoid contact with eyes or clothing. Wear longsleeved shirt, long pants, shoes, socks, and gloves made of any waterproof material. Wash hands thoroughly with soap and water after handling

Difference between SDS and EPA pesticide label

	EPA	OSHA
Signal Word	Caution	Warning
Serious eye damage/eye irritation	Causes moderate eye irritation	NA
Reproductive Toxicity	NA	Suspected of damaging fertility or the unborn child

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards Not determined	Flammability Not determined	Instability Not determined	Special Hazards Not determined
<u>HMIS</u>	Health Hazards Not determined	Flammability Not determined	Physical hazards Not determined	Personal Protection Not determined

Issue Date: 12-Apr-2018
Revision Date: 6-Jul-2018
Revision Note: New format

Reason for Revision: Update emergency contact and product information number.

Date of Previous : 07/06/2018

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.