

**BIOADVANCED SCIENCE-  
BASED SOLUTIONS ALL IN ONE  
ROSE & FLOWER PLANT†  
SPRAY CONCENTRATE I**

Version 1.0 / USA

1/11

Revision Date: 03/28/2023

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**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE  
COMPANY/UNDERTAKING**

<b>Product identifier</b>	BIOADVANCED SCIENCE-BASED
<b>Trade name</b>	SOLUTIONS ALL IN ONE ROSE & FLOWER PLANT† SPRAY
<b>Product code</b>	CONCENTRATE I
<b>SDS Number</b>	20NACOM182
<b>EPA Registration No.</b>	92564-83
<b>Relevant identified uses of the substance or mixture and uses advised against</b>	
<b>Use</b>	Fungicide / Insecticide
<b>Restrictions on use</b>	See product label for restrictions.
<b>Information on supplier</b>	
<b>Supplier</b>	SBM Life Science Corp. 11000 Weston Parkway Suite 150 Cary, NC 27513 United States
<b>Responsible Department</b>	
<b>Emergency telephone no.</b>	
<b>Emergency Telephone Number (24hr/ 7 days)</b>	1-877-229-3763 (24 hr/ 7 days)
<b>Product Information Telephone Number</b>	1-877-229-3724
<b>SDS Information or Request</b>	SDS@sbm-company.com

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**SECTION 2: HAZARDS IDENTIFICATION**

**Classification in accordance with regulation HCS 29CFR §1910.1200**

Eye irritation: Moderately irritating Category III  
Skin irritation: Slightly irritating, Category IV  
Acute toxicity (Inhalation): Category IV  
Acute toxicity (Oral): Category IV

**Labelling in accordance with regulation HCS 29CFR §1910.1200**

**Signal word:** Caution

**Hazard statements**

Causes moderate eye irritation.  
Harmful if inhaled.

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**Precautionary statements**

Wash thoroughly after handling.  
Wear eye protection/ face protection.  
Avoid breathing mist and spray.  
Use only outdoors or in a well-ventilated area.  
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.  
Call a POISON CENTER/doctor/physician if you feel unwell.

**Hazards Not Otherwise Classified (HNOC)**

No physical hazards not otherwise classified.  
No health hazards not otherwise classified.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

<b>Hazardous Component Name</b>	<b>CAS-No.</b>	<b>Concentration % by weight</b>
Bifenthrin	82657-04-3	0.60
Myclobutanil	88671-89-0	0.53

**SECTION 4: FIRST AID MEASURES**

**Description of first aid measures**

<b>General advice</b>	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
<b>Inhalation</b>	Move 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 physician or poison control center immediately.
<b>Skin contact</b>	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.
<b>Eye contact</b>	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.
<b>Ingestion</b>	Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

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**Most important symptoms and effects, both acute and delayed**

**Symptoms** Inhalation may provoke the following symptoms:, Burning sensation, discomfort in the chest, Cough, Dizziness  
Ingestion may provoke the following symptoms:, Vomiting, discomfort in the chest, Abdominal pain, Diarrhoea

**Indication of any immediate medical attention and special treatment needed**

**Treatment** Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.

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**SECTION 5: FIREFIGHTING MEASURES**

**Extinguishing media**

**Suitable** Foam, Carbon dioxide (CO<sub>2</sub>), Dry chemical, Water

**Unsuitable** None known.

**Special hazards arising from the substance or mixture** Dangerous gases are evolved in the event of a fire.

**Advice for firefighters**

**Special protective equipment for firefighters** Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

**Further information** Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

**Flash point** > 110.0°C

**Auto-ignition temperature** No data available

**Lower explosion limit** No data available

**Upper explosion limit** No data available

**Explosivity** Not applicable

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Precautions** Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.

**Methods and materials for containment and cleaning up**

**Methods for cleaning up** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations.

**Additional advice** Use personal protective equipment. Do not allow to enter soil, waterways or waste water canal. Do not allow product to contact non-target plants.

**Reference to other sections** Information regarding safe handling, see section 7.  
Information regarding personal protective equipment, see section 8.  
Information regarding waste disposal, see section 13.

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**SECTION 7: HANDLING AND STORAGE**

**Precautions for safe handling**

**Advice on safe handling** Handle and open container in a manner as to prevent spillage. Use only in area provided with appropriate exhaust ventilation.

**Hygiene measures** Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.  
Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

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

**Requirements for storage areas and containers** Store in original container and out of the reach of children, preferably in a locked storage area. Protect from freezing.

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL**

**PROTECTION Control parameters**

None Specified

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### Exposure controls

#### Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

**Respiratory protection** When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

**Hand protection** Chemical resistant nitrile rubber gloves

**Eye protection** Tightly fitting safety goggles

**Skin and body protection** Wear long-sleeved shirt and long pants and shoes plus socks.

**General protective measures** Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water.  
Keep and wash PPE separately from other laundry.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	nearly colorless
<b>Physical State</b>	cloudy liquid
<b>Odor</b>	mild bitter
<b>Odour Threshold</b>	No data available
<b>pH</b>	5.1 at 1% solution
<b>Vapor Pressure</b>	No data available
<b>Vapor Density (Air = 1)</b>	No data available
<b>Density</b>	1.02 g/cm <sup>3</sup> at 24 °C
<b>Evaporation rate</b>	No data available
<b>Boiling Point</b>	No data available
<b>Melting / Freezing Point</b>	No data available
<b>Water solubility</b>	miscible
<b>Minimum Ignition Energy</b>	Not applicable
<b>Decomposition temperature</b>	Not applicable
<b>Partition coefficient: n-octanol/water</b>	Not applicable
<b>Viscosity</b>	1.78 cP at 25 C 1.17 cP at 39 C
<b>Flash point</b>	> 110.0 °C

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<b>Auto-ignition temperature</b>	No data available
<b>Lower explosion limit</b>	No data available
<b>Upper explosion limit</b>	No data available
<b>Explosivity</b>	Not applicable

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**SECTION 10: STABILITY AND REACTIVITY**

**Reactivity**

<b>Thermal decomposition</b>	Not applicable
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	freezing
<b>Incompatible materials</b>	None known
<b>Hazardous decomposition products</b>	No decomposition products expected under normal conditions of use.

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**SECTION 11: TOXICOLOGICAL INFORMATION**

<b>Exposure routes</b>	Ingestion, Skin contact, Inhalation, Eye contact
<b>Immediate Effects</b>	
<b>Eye</b>	Moderate eye irritation.
<b>Skin</b>	May be harmful if absorbed through skin. May cause skin irritation.
<b>Ingestion</b>	Harmful if swallowed.
<b>Inhalation</b>	May be harmful if inhaled.
<b>Information on toxicological effects</b>	
<b>Acute oral toxicity</b>	LD50 (Rat) 3,129 mg/kg
<b>Acute inhalation toxicity</b>	LC50 (Rat) > 2.15 mg/l Exposure time: 4 h Determined in the form of liquid aerosol.
<b>Acute dermal toxicity</b>	LD50 (Rat) > 5,000 mg/kg
<b>Skin irritation</b>	Slight skin irritation. (Rabbit)
<b>Eye irritation</b>	Moderately irritating. (Rabbit)
<b>Sensitisation</b>	Non-sensitizing. (Mouse)

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**Assessment repeated dose toxicity**

No Data reported

**Assessment mutagenicity**

No Data reported

**Assessment carcinogenicity**

No Data Reported

**ACGIH**

None.

**NTP**

None.

**IARC**

None.

**OSHA**

None.

**Assessment toxicity to reproduction**

No Data reported

**Assessment developmental toxicity**

No Data reported

**Further information**

None

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**SECTION 12: ECOLOGICAL INFORMATION**

**Biodegradability**

No Data reported

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**Koc** No Data reported

**Bioaccumulation** No Data reported

**Mobility in soil** No Data reported

**Environmental precautions** Do not allow to get into surface water, drains and ground water.  
Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water.  
Drift or runoff from treated areas may adversely affect non-target plants.  
Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites.  
Apply this product as specified on the label.

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### **SECTION 13: DISPOSAL CONSIDERATIONS**

#### **Waste treatment methods**

**Product** Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law.  
If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.  
Never place unused product down any indoor or outdoor drain.

**Contaminated packaging** Do not re-use empty containers.  
Place empty container in trash.  
Follow advice on product label and/or leaflet.

**RCRA Information** Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply.

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### **SECTION 14: TRANSPORT INFORMATION**

**49CFR**



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UN number Not Regulated  
Class  
Packaging group  
Proper shipping name

RQ

**IMDG** UN3082, Environmentally Hazardous substance, liquid, n. o. s.(Bifenthrin),  
9, PGIII

**IATA** UN3082, Environmentally Hazardous substance, liquid, n. o. s.(Bifenthrin),  
9, PGIII

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

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**SECTION 15: REGULATORY INFORMATION**

**EPA Registration No.** 92564-83

**US Federal Regulations**

**TSCA list**

None.

**US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)**

None.

**SARA Title III - Section 302 - Notification and Information**

None.

**SARA Title III - Section 313 - Toxic Chemical Release Reporting**

Bifenthrin 82657-04-3 1.317%

**US States Regulatory Reporting**

**CA Prop65**

This product does not contain any substances known to the State of California to cause cancer.

This product does not contain any substances known to the State of California to cause reproductive harm.

**US State Right-To-Know Ingredients**

Bifenthrin 82657-04-3 NJ

**Canadian Regulations**

**Canadian Domestic Substance List**

None.

**Environmental**

**CERCLA**

None.

**Clean Water Section 307 Priority Pollutants**

None.

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### Safe Drinking Water Act Maximum Contaminant Levels None.

#### EPA/FIFRA Information:

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 required on the pesticide label:

**Signal word:** Caution!

**Hazard statements:** Harmful if swallowed.  
Slight eye irritation.  
Avoid contact with skin, eyes and clothing.

## SECTION 16: OTHER INFORMATION

### Abbreviations and acronyms

49CFR	Code of Federal Regulations, Title 49
ACGIH	US. ACGIH Threshold Limit Values
ATE	Acute toxicity estimate
CAS-Nr.	Chemical Abstracts Service number
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
EINECS	European inventory of existing commercial substances
ELINCS	European list of notified chemical substances
IARC	US. IARC Monographs on Occupational Exposures to Chemical Agents
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
N.O.S.	Not otherwise specified
NTP	US. National Toxicology Program (NTP) Report on Carcinogens
OECD	Organization for Economic Co-operation and Development
TDG	Transportation of Dangerous Goods
TWA	Time weighted average
UN	United Nations
WHO	World health organisation

### NFPA 704 (National Fire Protection Association):

Health - 1      Flammability - 0      Instability - 0      Others - none

### HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Health - 1      Flammability - 1      Physical Hazard - 0      PPE - 1

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

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**Reason for Revision:** New Issue

**Date of Previous Revision:** Not Applicable

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