### SBM LIFE SCIENCE CORP.

SAFETY DATA SHEET



## BIOADVANCED SCIENCE-BASED SOLUTIONS COMPLETE BRAND INSECT KILLER WITH GERM\* KILLER

Version 1.0 / USA 102000016791

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Revision Date: 01/22/2019

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

Product identifier BIOADVANCED SCIENCE-BASED

Trade name SOLUTIONS COMPLETE BRAND INSECT

KILLER WITH GERM\* KILLER

**Product code** 

**SDS Number** 102000016791

**EPA Registration No.** 92564-37

Relevant identified uses of the substance or mixture and uses advised against

**Use** Insecticide

**Restrictions on use**See product label for restrictions.

Information on manufacturer

SBM Life Science Corp. 1001 Winstead, Ste 500

Cary, NC 27513 United States

**Emergency Telephone** 

Number (24hr/ 7 days) 1-877-229-3763

Product Information 1-877-229-3724 Telephone Number

SDS Information or Request SDS@sbm-company.com

### **SECTION 2: HAZARDS IDENTIFICATION**

Classification in accordance with regulation HCS 29CFR §1910.1200

Eye irritation : Category 2B Signal word: Warning

### **Hazard statements**

Causes eye irritation.

### **Precautionary statements**

Wash hands thoroughly after handling.

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 hazards

No other hazards known.



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

Hazardous Component NameCAS-No.Concentration % by weight(1,1'-Biphenyl)-2-ol, sodium salt132-27-40.3Beta-Cyfluthrin68359-37-50.05

### **SECTION 4: FIRST AID MEASURES**

### Description of first aid measures

General advice When possible, have the product container or label with you when

calling a poison control center or doctor or going for treatment.

**Inhalation** 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.

Skin contact 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.

**Eye contact** 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.

**Ingestion** 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.

Most important symptoms and effects, both acute and delayed

**Symptoms** To date no symptoms are known.

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.

### **SECTION 5: FIREFIGHTING MEASURES**

**Extinguishing media** 

Suitable Water spray, Foam, Carbon dioxide (CO2), Dry chemical

Unsuitable None known.



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Advice for firefighters

Special protective Firefighters should wear NIOSH approved self-contained breathing

**equipment for fire-fighters** apparatus and full protective clothing.

Further information Fight fire from upwind position. Keep out of smoke. Cool closed

containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Whenever possible,

contain fire-fighting water by diking area with sand or earth.

Flash point  $> 93.3 \, ^{\circ}$ 

Autoignition temperature no data available

Lower explosion limit no data available

Upper explosion limit no data available

Explosivity not applicable

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures

Precautions Isolate hazard area. Keep unauthorized people away. 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.

**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.

### **SECTION 7: HANDLING AND STORAGE**

Precautions for safe handling

**Advice on safe handling** 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. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean



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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.

### **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Control parameters**

Components	CAS-No.	Control parameters	Update	Basis
Beta-Cyfluthrin	68359-37-5	5ug/m3	02 2013	TX ESL
(Particulate.)		(AN ESL)		
Beta-Cyfluthrin	68359-37-5	50ug/m3	02 2013	TX ESL
(Particulate.)		(ST ESL)		

### **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** Safety glasses with side-shields

**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**

Appearance white Physical State liquid

Odor characteristic
Odour Threshold no data available
pH 6.0 - 7.5 at 100 %



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Vapor Pressure no data available
Vapor Density (Air = 1) no data available

**Density** ca. 1.00 g/cm³ at 20 ℃

Evapouration rate no data available

Boiling Point no data available

Melting / Freezing Point no data available

Water solubility no data available

Minimum Ignition Energy not applicable

Decomposition temperature

Partition coefficient: n-

octanol/water

no data available

**Viscosity** 

no data available

Flash point  $> 93.3 \,^{\circ}$ 

Autoignition temperature no data available
Lower explosion limit no data available
Upper explosion limit no data available
Explosivity not applicable

### **SECTION 10: STABILITY AND REACTIVITY**

Reactivity

Thermal decomposition not applicable

**Chemical stability** Stable under recommended storage conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid freezing

Incompatible materials no data available

**Hazardous decomposition** 

products

No decomposition products expected under normal conditions of use.

### **SECTION 11: TOXICOLOGICAL INFORMATION**

**Exposure routes** Eye contact, Ingestion, Inhalation, Skin contact



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**Immediate Effects** 

**Eye** Causes eye irritation.

**Skin** May cause slight irritation.

**Ingestion** Harmful if swallowed.

**Inhalation** Harmful if inhaled.

Information on toxicological effects

Acute oral toxicity LD50 (female rat) > 2,000 mg/kg

Acute inhalation toxicity LC50 (rat) > 2.1 mg/l

Exposure time: 4 h

Determined in the form of liquid aerosol.

highest concentration tested

No deaths

LC50 (rat) > 8.4 mg/l Exposure time: 1 h

Determined in the form of liquid aerosol.

Extrapolated from the 4 hr LC50.

Acute dermal toxicity LD50 (rat) > 5,000 mg/kg

**Skin irritation** Slight irritation (rabbit)

**Eye irritation** Mild eye irritation. (rabbit)

Sensitisation Non-sensitizing. (guinea pig)

### Assessment repeated dose toxicity

The toxic effects of Beta-Cyfluthrin are related to transient hyperactivity typical for pyrethroid neurotoxicity.

### **Assessment mutagenicity**

Beta-Cyfluthrin was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

### Assessment carcinogenicity

Beta-Cyfluthrin was not carcinogenic in lifetime feeding studies in rats and mice.

### **ACGIH**

None.

NTP

None.

**IARC** 

(1,1'-Biphenyl)-2-ol, sodium salt 132-27-4 Overall evaluation: 2B

**OSHA** 

None.

Assessment toxicity to reproduction



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Beta-Cyfluthrin caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Beta-Cyfluthrin is related to parental toxicity.

### Assessment developmental toxicity

Beta-Cyfluthrin caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Beta-Cyfluthrin are related to maternal toxicity.

### **Further information**

Only acute toxicity studies have been performed on the formulated product.

The non-acute information pertains to the active ingredient(s).

#### **SECTION 12: ECOLOGICAL INFORMATION**

**Toxicity to fish** LC50 (Oncorhynchus mykiss (rainbow trout)) 0.000068 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient beta-cyfluthrin.

Toxicity to aquatic

invertebrates

Exposure time: 48 h

The value mentioned relates to the active ingredient beta-cyfluthrin.

**Toxicity to aquatic plants** EC50 (Desmodesmus subspicatus (green algae)) > 0.01 mg/l

Exposure time: 72 h

The value mentioned relates to the active ingredient beta-cyfluthrin.

No acute toxicity was observed at its limit of water solubility.

EC50 (Daphnia magna (Water flea)) 0.00029 mg/l

**Biodegradability** Beta-Cyfluthrin:

not rapidly biodegradable

**Koc** Beta-Cyfluthrin: Koc: 508 - 3179

**Bioaccumulation** Beta-Cyfluthrin: Bioconcentration factor (BCF) 506

Does not bioaccumulate.

**Mobility in soil** Beta-Cyfluthrin: Immobile in soil

**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.

Apply this product as specified on the label.

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

Waste treatment methods



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**Product** It is best to use all of the product in accordance with label directions. If it

is necessary to dispose of unused product, please follow container label

instructions and applicable local guidelines.

Never place unused product down any indoor or outdoor drain.

Follow advice on product label and/or leaflet.

**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.

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

**49CFR** Not dangerous goods / not hazardous material

**IMDG** 

UN number 3082
Class 9
Packaging group III
Marine pollutant YES

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(BETA-CYFLUTHRIN SOLUTION)

**IATA** 

UN number 3082
Class 9
Packaging group III
Environm. Hazardous Mark YES

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(BETA-CYFLUTHRIN SOLUTION)

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.

Freight Classification: INSECTICIDES OR FUNGICIDES, N.O.I., OTHER THAN

POISON

### **SECTION 15: REGULATORY INFORMATION**

**EPA Registration No.** 92564-37

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**US Federal Regulations** 

**TSCA list** 

(1,1'-Biphenyl)-2-ol, sodium salt 132-27-4

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

(1,1'-Biphenyl)-2-ol, sodium salt 132-27-4 0.1% Beta-Cyfluthrin 68359-37-5 25,000lbs

**US States Regulatory Reporting** 

CA Prop65

This product contains a chemical known to the State of California to cause cancer.

(1,1'-Biphenyl)-2-ol, sodium salt 132-27-4

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

(1,1'-Biphenyl)-2-ol, sodium salt 132-27-4 CA, MN, NJ, RI

Beta-Cyfluthrin 68359-37-5 NJ, RI

**Canadian Regulations** 

**Canadian Domestic Substance List** 

None.

**Environmental** 

**CERCLA** 

None.

**Clean Water Section 307 Priority Pollutants** 

None.

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 by inhalation and if swallowed.

Causes eye irritation.

Avoid contact with skin, eyes and clothing.

Avoid inhalation of vapour or mist.

Remove and wash contaminated clothing before re-use.

**SECTION 16: OTHER INFORMATION** 



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### Abbreviations and acronyms

49CFR Code of Federal Regulations, Title 49
ACGIH US. ACGIH Threshold Limit Values
CAS-Nr. Chemical Abstracts Service number

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 - 2 Flammability - 1 Instability - 0 Others - none

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

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

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

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

Date of Previous Revision: 04/06/2018

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