SAFETY DATA SHEET



BIOADVANCED SCIENCE-BASED SOLUTIONS 12 MONTH TREE & SHRUB PROTECT & FEED READY-TO-USE **GRANULES**

Version 1.0 / USA 102000014562

1/11

Revision Date: 02/01/2019

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

Product identifier

BIOADVANCED SCIENCE-BASED SOLUTIONS 12 MONTH TREE & Trade name

SHRUB PROTECT & FEED READY-TO-USE GRANULES

Product code

SDS Number 102000014562

92564-30 **EPA Registration No.**

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

Use Insecticide. Fertilizer

Restrictions on use See product label for restrictions.

Information on manufacturer

SBM Life Science Corp. 1001 Winstead. Ste 500

Cart. NC 27513 **United States**

Emergency telephone no.

Emergency Telephone

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

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

This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

Other hazards

No particular hazards known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name CAS-No. Concentration % by weight

Imidacloprid 138261-41-3 1.1

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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, Dry chemical, Carbon dioxide (CO2), Foam

Unsuitable None known.

Special hazards arising from the substance or

from the substance or mixture

In the event of fire the following may be released:, Oxides of

phosphorus, Carbon dioxide (CO2), Nitrogen oxides (NOx), Ammonia,

Sulphur oxides

Advice for firefighters

Special protective equipment for fire-fighters

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. Extinguishing measures to suit surroundings. Do not allow run-off from fire fighting to enter drains

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or water courses.

Flash point not applicable

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

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

Avoid dust formation. Sweep up or vacuum up spillage and collect in Methods for cleaning up

suitable container for disposal. 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 Handle and open container in a manner as to prevent spillage. Use only

in area provided with appropriate exhaust ventilation.

Advice on protection against fire and explosion Keep away from heat and sources of ignition.

Remove Personal Protective Equipment (PPE) immediately after **Hygiene measures**

> handling this product. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean

clothing.

Conditions for safe storage, including any incompatibilities

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Requirements for storage areas and containers

Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Imidacloprid	138261-41-3	50ug/m3 (ST ESL)	07 2011	TX ESL
Imidacloprid	138261-41-3	5ug/m3 (AN ESL)	07 2011	TX ESL
Magnesium carbonate (Total)	546-93-0	10 mg/m3 (REL)	2010	NIOSH
Magnesium carbonate (Respirable.)	546-93-0	5 mg/m3 (REL)	2010	NIOSH
Magnesium carbonate (Total dust.)	546-93-0	15 mg/m3 (PEL)	02 2006	OSHA Z1
Magnesium carbonate (Respirable fraction.)	546-93-0	5 mg/m3 (PEL)	02 2006	OSHA Z1
Magnesium carbonate (Respirable fraction.)	546-93-0	5 mg/m3 (TWA)	1989	OSHA Z1A
Magnesium carbonate (Total dust.)	546-93-0	15 mg/m3 (TWA)	1989	OSHA Z1A
Magnesium carbonate (Respirable fraction.)	546-93-0	5 mg/m3 (TWA)	06 2008	TN OEL
Magnesium carbonate (Total dust.)	546-93-0	15 mg/m3 (TWA)	06 2008	TN OEL
Magnesium carbonate (Particulate.)	546-93-0	5ug/m3 (AN ESL)	02 2013	TX ESL
Magnesium carbonate (Particulate.)	546-93-0	50ug/m3 (ST ESL)	02 2013	TX ESL
Calcium lignosulfonate (Particulate.)	8061-52-7	50ug/m3 (ST ESL)	02 2013	TX ESL
Calcium lignosulfonate (Particulate.)	8061-52-7	5ug/m3 (AN ESL)	02 2013	TX ESL
Cellulose	9004-34-6	10 mg/m3 (TWA)	02 2012	ACGIH
Cellulose (Respirable.)	9004-34-6	5 mg/m3 (REL)	2010	NIOSH
Cellulose (Total)	9004-34-6	10 mg/m3 (REL)	2010	NIOSH

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Cellulose (Respirable fraction.)	9004-34-6	5 mg/m3 (PEL)	02 2006	OSHA Z1
Cellulose (Total dust.)	9004-34-6	15 mg/m3 (PEL)	02 2006	OSHA Z1
Cellulose (Respirable fraction.)	9004-34-6	5 mg/m3 (TWA)	1989	OSHA Z1A
Cellulose (Total dust.)	9004-34-6	15 mg/m3 (TWA)	1989	OSHA Z1A
Cellulose (Respirable fraction.)	9004-34-6	5 mg/m3 (TWA)	06 2008	TN OEL
Cellulose (Total dust.)	9004-34-6	15 mg/m3 (TWA)	06 2008	TN OEL
Cellulose (Particulate.)	9004-34-6	5ug/m3 (AN ESL)	02 2013	TX ESL
Cellulose (Particulate.)	9004-34-6	50ug/m3 (ST ESL)	02 2013	TX 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 Wash hands thoroughly with soap and water after handling and

before eating, drinking, chewing gum, using tobacco, using the toilet

or applying cosmetics.

Do not allow children or pets to enter the treated area until granules

have been watered into the soil and the grass or soil is dry.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance yellow to brown

Physical State granular
Odor woody

Odour Threshold no data available

pH ca. 6.0 - 7.5 at 10 %

aqueous suspension

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Vapor Pressureno data availableVapor Density (Air = 1)no data availableBulk densityca. 55 - 65 lb/ft³Evapouration ratenot applicableBoiling Pointnot applicableMelting / Freezing Pointnot applicable

Water solubility soluble

Minimum Ignition Energynot applicableDecompositionno data availabletemperature

Partition coefficient: n-

octanol/water

not applicable

Viscosity

not applicable

Flash point not applicable

Autoignition temperatureno data availableLower explosion limitnot applicableUpper explosion limitnot applicableExplosivityno data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity

Thermal decomposition no data available

Chemical stability Stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Heat, flames and sparks.

Incompatible materials Acids

Hazardous decomposition

products

No decomposition products expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

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Exposure routes Ingestion, Eye contact, Skin Absorption

Immediate Effects

Eye Causes eye irritation.

Skin Harmful if absorbed through skin.

Ingestion Harmful if swallowed.

Information on toxicological effects

Acute oral toxicity LD50 (male/female combined rat) > 4,820 mg/kg

Acute inhalation toxicity LC50 (male/female combined rat) > 5.1 mg/l

Exposure time: 4 h

Determined in the form of dust.

(actual)

Acute dermal toxicity LD50 (male/female combined rabbit) > 2,000 mg/kg

Skin irritationNo skin irritation (rabbit)Eye irritationMild eye irritation. (rabbit)

Sensitisation Non-sensitizing. (guinea pig)

Assessment repeated dose toxicity

Imidacloprid did not cause specific target organ toxicity in experimental animal studies.

Assessment mutagenicity

Imidacloprid was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.

Assessment carcinogenicity

Imidacloprid was not carcinogenic in lifetime feeding studies in rats and mice.

ACGIH

None.

NTP

None.

IARC

None.

OSHA

None.

Assessment toxicity to reproduction

Imidacloprid 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 Imidacloprid is related to parental toxicity.

Assessment developmental toxicity

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

Further information

Acute toxicity studies have been bridged from a similar formulation(s). The non-acute information pertains to the active ingredient(s).

SECTION 12: ECOLOGICAL INFORMATION

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)) 211 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient imidacloprid.

Toxicity to aquatic invertebrates

EC50 (Daphnia magna (Water flea)) 85 mg/l

Exposure time: 48 h

The value mentioned relates to the active ingredient imidacloprid.

LC50 (Chironomus riparius (non-biting midge)) 0.0552 mg/l

Exposure time: 24 h

The value mentioned relates to the active ingredient imidacloprid.

EC10 (Chironomus riparius (non-biting midge)) 2,09 μg/l

Exposure time: 28 d

The value mentioned relates to the active ingredient imidacloprid.

Toxicity to aquatic plants EC50 (Desmodesmus subspicatus) > 10 mg/l

Growth rate; Exposure time: 72 h

The value mentioned relates to the active ingredient imidacloprid.

Biodegradability Imidacloprid: ; not rapidly biodegradable

Koc Imidacloprid: Koc: 225

Bioaccumulation Imidacloprid: ; Does not bioaccumulate.

Mobility in soil Imidacloprid: Moderately mobile in soils

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.

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 3077
Class 9
Packaging group III
Marine pollutant YES

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(IMIDACLOPRID MIXTURE)

IATA

UN number 3077
Class 9
Packaging group III
Environm, Hazardous Mark YES

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(IMIDACLOPRID MIXTURE)

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.

SECTION 15: REGULATORY INFORMATION

EPA Registration No. US Federal Regulations

92564-30

TSCA list

None.

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

SARA Title III - Section 302 - Notification and Information

None.

SARA Title III - Section 313 - Toxic Chemical Release Reporting

None.

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

None.

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 if swallowed or absorbed through skin.

Moderate eye irritation.

Avoid contact with skin, eyes and clothing.

Wash thoroughly with soap and water after handling.

SECTION 16: OTHER INFORMATION

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NFPA 704 (National Fire Protection Association):

Health - 1 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: 05/01/2017

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