SAFETY DATA SHEET



BIOADVANCED SCIENCE-BASED SOLUTIONS 24-HOUR GRUB KILLER PLUS READY-TO-SPREAD GRANULES

Version 1.0 / USA 102000016526 **1/10** Revision Date:04/02/2020

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

Product identifier

Trade name BIOADVANCED SCIENCE-BASED SOLUTIONS 24-HOUR GRUB

KILLER PLUS READY-TO-SPREAD GRANULES

Product code

SDS Number 102000016526

EPA Registration No. 92564-40

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

Use Insecticide

Restrictions on useSee 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 Telephone Number

1-877-229-3724

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 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 Name CAS-No. Average % by Weight

Trichlorfon 52-68-6 9.30

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

Risks This product is a cholinesterase inhibiting organophosphorous

pesticide. Prolonged exposure will cause cholinesterase depression.

Treatment Appropriate supportive and symptomatic treatment as indicated by the

patient's condition is recommended. Atropine Sulfate is antidotal. 2-PAM is also antidotal and may be administered in conjunction with

atropine.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

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

Unsuitable None known.

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Special hazards arising from the substance or

mixture

Accumulation of fine dust may entail the risk of a dust explosion in the

presence of air.

In the event of fire the following may be released:, Nitrogen oxides

(NOx), Carbon monoxide (CO)

Advice for firefighters

Special protective equipment for fire-fighters Firefighters should wear NIOSH approved self-contained breathing

apparatus and full protective clothing.

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

containers exposed to fire with water spray. Do not allow run-off from

fire fighting to enter drains 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 Use only in area provided with appropriate exhaust ventilation. Handle

and open container in a manner as to prevent spillage.

Remove Personal Protective Equipment (PPE) immediately after Hygiene measures

handling this product. Remove soiled clothing immediately and clean



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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 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
Trichlorfon (Inhalable fraction.)	52-68-6	1 mg/m3 (TWA)	02 2012	ACGIH
Trichlorfon	52-68-6	10ug/m3 (ST ESL)	07 2011	TX ESL
Trichlorfon	52-68-6	1ug/m3 (AN ESL)	07 2011	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 Goggles

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

General protective measures There are no known hazards associated with this product when used

according to the label directions. The following guidelines should be

followed.

Avoid breathing dust.

Avoid contact with skin and eyes.

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.

Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet

or applying cosmetics.



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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance tan

Physical State dry, free flowing granules

Odor sweet

Odour Threshold no data available

pH 4 - 5

Vapor Pressureno data availableVapor Density (Air = 1)no data availableBulk density30 - 35 lb/ft³Evapouration ratenot applicableBoiling Pointnot applicableMelting / Freezing Pointnot applicableWater solubilitydispersible

Minimum Ignition Energyno data availableDecompositionno data available

temperature

Partition coefficient: n-

octanol/water

no data available

Viscosity

not applicable

Flash point not applicable

Autoignition temperature no data available

Lower explosion limit not applicable

Upper explosion limit not applicable

Explosivity no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity

Thermal decomposition no data available

Chemical stability Stable under normal conditions.

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Possibility of hazardous

reactions

No hazardous reactions when stored and handled according to

prescribed instructions.

Conditions to avoid no data available

Incompatible materials Strong acids, Oxidizing agents, Bases

Hazardous decomposition

products

No decomposition products expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes Eye contact, Ingestion, Inhalation, Skin contact

Immediate Effects

Eye May cause slight irritation.

Skin Prolonged or frequently repeated skin contact may cause allergic

reactions in some individuals.

Ingestion Harmful if swallowed.

Inhalation Dusts may cause upper respiratory tract irritation, coughing.

Information on toxicological effects

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

Acute dermal toxicity LD50 (rat) > 5,000 mg/kgSkin irritation Slight irritation (rabbit)

Moderate eye irritation. (rabbit) Eye irritation Sensitisation Non-sensitizing. (guinea pig)

Assessment repeated dose toxicity

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

Assessment Mutagenicity

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

Assessment Carcinogenicity

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

ACGIH

Trichlorfon 52-68-6 Group A4

NTP

None.

IARC

Trichlorfon 52-68-6 Overall evaluation: 3

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OSHA

None.

Assessment toxicity to reproduction

Trichlorfon is not considered a reproductive toxicant at non-maternally toxic dose levels.

Assessment developmental toxicity

Trichlorfon did not cause developmental toxicity in rats and rabbits.

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

Biodegradability Trichlorfon: ; rapidly biodegradable

Koc Trichlorfon: Koc: 0

Bioaccumulation Trichlorfon: Bioconcentration factor (BCF) 0.41; Does not

bioaccumulate.

Trichlorfon: Highly mobile in soils Mobility 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

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.

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SECTION 14: TRANSPORT INFORMATION

49CFR

UN number 3077
Class 9
Packaging group III

Marine pollutant Marine pollutant

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID,

N.O.S.

(TRICHLORFON)

RQ Reportable Quantity is reached with 1,075 lb of product.

IMDG

UN number 3077
Class 9
Packaging group III
Marine pollutant YES

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(TRICHLORFON MIXTURE)

IATA

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

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(TRICHLORFON 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.

Freight Classification: COMPOUNDS, TREE OR WEED KILLING, N.O.I. other than

poison, HAVING A DENSITY OF 20 LBS OR GREATER PER

CUBIC FOOT

SECTION 15: REGULATORY INFORMATION

EPA Registration No. 92564-40

US Federal Regulations

TSCA list None.

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.

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SARA Title III - Section 313 - Toxic Chemical Release Reporting

25,000lbs Trichlorfon 52-68-6

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

Trichlorfon CA, CT, IL, NJ, RI 52-68-6

Canadian Regulations

Canadian Domestic Substance List

Trichlorfon 52-68-6

Environmental

CERCLA

Trichlorfon 52-68-6 100 lbs

Clean Water Section 307 Priority Pollutants

Safe Drinking Water Act Maximum Contaminant Levels

None.

International Regulations

European Inventory of Existing Commercial Substances (EINECS)

Trichlorfon 52-68-6

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!

Harmful if swallowed. Hazard statements:

Do not breathe dust.

Avoid contact with skin, eyes and clothing.

Prolonged or frequently repeated skin contact may cause allergic

reactions in some individuals.

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 Section 4 First Aid to add advice to physicians

Date of Previous Revision: 01/21/2019

This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions. The product names are trademarks of SBM Life Science Corp.