

**BIOADVANCED SCIENCE-BASED  
SOLUTIONS ALL-IN-ONE LAWN  
WEED & CRABGRASS KILLER  
READY-TO-USE**

Version 1.0 / USA  
20NAHER228

**1/11**

Revision Date: 12/27/2024

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

**Product identifier**

**Trade name** BIOADVANCED SCIENCE-BASED  
SOLUTIONS ALL-IN-ONE LAWN WEED &  
CRABGRASS KILLER READY-TO-USE

**Product code**

**SDS Number** 20NAHER228

**EPA Registration No.** 92564-86

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

**Use** Herbicide

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

**Information on manufacturer**

SBM Life Science Corp.  
11000 Weston Parkway, Suite150  
Cary, NC 27513  
United States

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

**Product Information  
Telephone Number** 1-877-229-3724

**SDS Information or Request** SDS@sbm-company.com

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**SECTION 2: HAZARDS IDENTIFICATION**

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

**Signal word: Caution**

**Hazard statements**

**Precautionary statements**

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.

IF exposed or concerned: Get medical advice/attention.

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Store locked up.  
Dispose of contents/container in accordance with local regulation.

**Other Hazards Not Otherwise Classified (HNOC)**

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

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

| Hazardous Component Name | CAS-No.     | % by Weight |
|--------------------------|-------------|-------------|
| Topramezone              | 210631-68-8 | 0.0033      |
| Bentazone Na salt        | 50723-80-3  | 0.1289      |

**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. |

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

**Symptoms** No symptoms known or expected.

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

**Unsuitable** No Data

**Special hazards arising from the substance or mixture** No Data - Liquid Formulation

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

**Special protective equipment for fire-fighters** Keep out of smoke. Fight fire from upwind position. Do not allow run-off from fire fighting to enter drains or water courses.

**Further information**

**Flash point** > 100 C (Closed Cup)

**Autoignition temperature** not applicable

**Lower explosion limit** not applicable

**Upper explosion limit** not applicable

**Explosivity** not shock sensitive

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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** Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations.

**Additional advice** Use personal protective equipment.

**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**

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**Precautions for safe handling**

|                                |                                                                                                                                                                                                                                                                                      |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Advice on safe handling</b> | Handle and open container in a manner as to prevent spillage.                                                                                                                                                                                                                        |
| <b>Hygiene measures</b>        | Remove Personal Protective Equipment (PPE) immediately after handling this product. Remove Gloves and dispose of properly. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics. |

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

|                                                      |                                                                                                                                                                                                                                                        |
|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Requirements for storage areas and containers</b> | 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**

| Components  | CAS-No.     | Control parameters    | Update | Basis |
|-------------|-------------|-----------------------|--------|-------|
| Topramezone | 210631-68-8 | No Limits established |        |       |

| Components | CAS-No.    | Control parameters    | Update | Basis |
|------------|------------|-----------------------|--------|-------|
| Bentazone  | 25057-89-0 | No Limits established |        |       |

**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.

|                                    |                                                                                                                                                                                                                  |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Respiratory protection</b>      | 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. |
| <b>Hand protection</b>             | Latex rubber gloves                                                                                                                                                                                              |
| <b>Eye protection</b>              | Safety glasses with side-shields                                                                                                                                                                                 |
| <b>Skin and body protection</b>    | Wear long-sleeved shirt and long pants and shoes plus socks.                                                                                                                                                     |
| <b>General protective measures</b> | Do not allow children or pets to enter the treated area until grass or soil is dry.                                                                                                                              |

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

|                                        |                                    |
|----------------------------------------|------------------------------------|
| Appearance                             | opaque light straw color           |
| Physical State                         | liquid                             |
| Odor                                   | Odorless                           |
| Odour Threshold                        | no data available                  |
| pH                                     | 4.27 (neat)                        |
| Vapor Pressure                         | not applicable                     |
| Vapor Density (Air = 1)                | not applicable                     |
| Bulk density                           | 1.000 @ 20 C                       |
| Evaporation rate                       | not applicable                     |
| Boiling Point                          | not applicable                     |
| Melting / Freezing Point               | not applicable                     |
| Water solubility                       | Partially soluble                  |
| Minimum Ignition Energy                | Not applicable                     |
| Decomposition temperature              | no data available                  |
| Partition coefficient: n-octanol/water | not applicable                     |
| Viscosity                              | 1.04 cPs at 20 C, 0.69 cPs at 40 C |
| Flash point                            | >100 .1C (Closed Cup)              |
| Autoignition temperature               | not applicable                     |
| Lower explosion limit                  | not applicable                     |
| Upper explosion limit                  | not applicable                     |
| Explosivity                            | Liquid formulation                 |

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**SECTION 10: STABILITY AND REACTIVITY**

**Reactivity**

|                                           |                                                                    |
|-------------------------------------------|--------------------------------------------------------------------|
| <b>Thermal decomposition</b>              | no data available                                                  |
| <b>Chemical stability</b>                 | Stable under normal conditions.                                    |
| <b>Possibility of hazardous reactions</b> | No dangerous reaction known under conditions of normal use.        |
| <b>Conditions to avoid</b>                | Heat, flames and sparks.                                           |
| <b>Incompatible materials</b>             | None noted                                                         |
| <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>                      | Skin contact, Eye contact, Ingestion                                                                   |
| <b>Immediate Effects</b>                    |                                                                                                        |
| <b>Eye</b>                                  | No eye irritation noted.                                                                               |
| <b>Skin</b>                                 | May cause slight irritation.                                                                           |
| <b>Ingestion</b>                            | Non toxic                                                                                              |
| <b>Inhalation</b>                           | Inhalation not likely.                                                                                 |
| <b>Information on toxicological effects</b> |                                                                                                        |
| <b>Acute oral toxicity</b>                  | LD50 (male/female combined rat) > 5,000 mg/kg                                                          |
| <b>Acute inhalation toxicity</b>            | LC50 (male/female combined rat) > 2.15 mg/l<br>Exposure time: 4 h<br>Determined in the form of aerosol |
| <b>Acute dermal toxicity</b>                | LD50 (male/female combined rat) > 5,000 mg/kg                                                          |
| <b>Skin irritation</b>                      | Mild skin irritation. (rabbit)                                                                         |
| <b>Eye irritation</b>                       | No eye irritation. (rabbit)                                                                            |
| <b>Sensitisation</b>                        | Non-sensitizing. (mice)                                                                                |

**Assessment repeated dose toxicity**

No Data

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**Assessment Mutagenicity**

Topramezone was not mutagenic in tests with mammalian cell cultures  
Bentazone - no data available.

**Assessment Carcinogenicity**

Topramezone is not expected to be carcinogenic to animals in low doses

Bentazone - Tumors have been seen in rats given 200 mg/kg/day of bentazon, results  
questionable

**ACGIH**

None.

**NTP**

None.

**IARC**

None.

**OSHA**

None.

**Assessment toxicity to reproduction**

Topramezone - No data

Bentazone - No data

**Assessment developmental toxicity**

Topramezone -animal studies gave indication of developmental toxic/ teratogenic  
effects with high doses. May cause harm to the unborn child

Bentazone: - No data

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**SECTION 12: ECOLOGICAL INFORMATION**

|                                          |                                                                                                                                                |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Toxicity to fish</b>                  | LC50 (Rainbow trout (Oncorhynchus mykiss) 8.71 mg/l<br>Exposure time: 96 h<br>The value mentioned relates to the active ingredient Topramezone |
|                                          | NOEC >9.16 mg/liter (Pimephales promelas)<br>Exposure time: 35 days<br>The value mentioned relates to the active ingredient Bentazon           |
| <b>Toxicity to aquatic invertebrates</b> | EC50 (Water flea (Daphnia magna)) 12.1 mg/l<br>Exposure time: 48 Hours<br>The value mentioned relates to the active ingredient Topramezone     |
|                                          | NOEC - >91.6 mg/ liter (Daphnia magna)<br>Exposure time: 21 days<br>The value mentioned relates to the formulated Bentazon                     |
| <b>Toxicity to aquatic plants</b>        | NOEC - 0.001mg / liter (Lemna gibba)<br>Exposure time: 7 days<br>The value mentioned relates to the active ingredient Topramezone              |
| <b>Toxicity to aquatic animals</b>       | LD50 (Mallard duck) 2000 mg/kg<br>LD50 (Japanese quail) 720 mg/kg<br>The values mentioned relates to the formulated Bentazon                   |
|                                          |                                                                                                                                                |
| <b>Biodegradability</b>                  | Topramezone - not readily biodegradable<br>Bentazone - not readily biodegradable                                                               |
|                                          |                                                                                                                                                |

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|                                  |                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Koc</b>                       | Topramezone: log Kow: -1.52<br>Bentazone - : No data                                                                                                                                                                                                                                                                                                                                 |
| <b>Bioaccumulation</b>           | Topramezone: No significant<br>bioaccumulation potential<br>Bentazone: Low bioaccumulation potential                                                                                                                                                                                                                                                                                 |
| <b>Mobility in soil</b>          | Topramezone: Moderately mobile in soils<br>Bentazone: No data                                                                                                                                                                                                                                                                                                                        |
| <b>Environmental precautions</b> | Do not apply directly to water, to areas where surface water is present<br>or to intertidal areas below the mean high water mark.<br>Do not contaminate surface or ground water by cleaning equipment or<br>disposal of wastes, including equipment wash water.<br>Apply this product as specified on the label.<br>Do not allow to get into surface water, drains and ground water. |

## SECTION 13: DISPOSAL CONSIDERATIONS

### Waste treatment methods

|                               |                                                                                                                                                                                                               |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product</b>                | Pesticide, or rinse water that cannot be used according to label<br>instructions may be disposed of on site or at an approved waste<br>disposal facility.                                                     |
| <b>Contaminated packaging</b> | Rinsed packaging may be acceptable for landfill, otherwise incineration<br>will be required in accordance with local regulations.<br>If burned, stay out of smoke.                                            |
| <b>RCRA Information</b>       | Characterization and proper disposal of this material as a special or<br>hazardous waste is dependent upon Federal, State and local laws and<br>are the user's responsibility. RCRA classification may apply. |

## SECTION 14: TRANSPORT INFORMATION

|                      |                                                                                  |
|----------------------|----------------------------------------------------------------------------------|
| <b>49CFR</b>         | Not dangerous goods / not hazardous material                                     |
| <b>IMDG</b>          |                                                                                  |
| UN number            | <b>3082</b>                                                                      |
| Class                | 9                                                                                |
| Packaging group      | III                                                                              |
| Marine pollutant     | YES                                                                              |
| Proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE,<br>LIQUID, N.O.S.<br>(Contains Topramezone) |

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**IATA**

|                          |                                                                                  |
|--------------------------|----------------------------------------------------------------------------------|
| UN number                | 3082                                                                             |
| Class                    | 9                                                                                |
| Packaging group          | III                                                                              |
| Environm. Hazardous Mark | YES                                                                              |
| Proper shipping name     | ENVIRONMENTALLY HAZARDOUS SUBSTANCE,<br>LIQUID, N.O.S.<br>(Contains Topramezone) |

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.** 92564-86

**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**

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

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**EPA/FIFRA**

**Information:** EPA Reg #  
92564-86

**Signal word:** Caution!

**Hazard statements:** Avoid contact with skin, eyes and clothing.  
Wash thoroughly with soap and water after handling.

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**SECTION 16: OTHER INFORMATION**

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

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

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

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

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

**Reason for Revision:** New Issue

**Date of Previous Revision:** Not Applicable

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