

# Safety Data Sheet

acc. to OSHA HCS (29 CFR § 1910.1200)

Printing date 01/16/2024

Reviewed on 01/16/2024

## 1 Identification

- **Product identifier**
- **Trade name: Beta Damascone 1% TAC Natural**
- **Product number:** 1880
- **Application of the substance / the mixture** Flavoring Ingredients
- **Details of the supplier of the safety data sheet**  
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## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS07

Sensitization - Skin 1 H317 May cause an allergic skin reaction.

- **GHS label elements**

Pictograms on label shall be in the shape of a square set at a point and shall include a black hazard symbol on a white background with a red frame sufficiently wide to be clearly visible.

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS07

- **Signal word** Warning
- **Hazard-determining components of labeling:**

Beta-Damascone

- **Hazard statements**

H317 May cause an allergic skin reaction.

- **Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P280 Wear protective gloves.

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- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P321 Specific treatment (see on this label).
- P363 Wash contaminated clothing before reuse.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



Health = 0  
Fire = 1  
Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



HEALTH 1 Health = 1  
FIRE 1 Fire = 1  
REACTIVITY 0 Reactivity = 0

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

|                   |  |          |
|-------------------|--|----------|
| CAS: 23726-91-2   | Beta-Damascone   | ≥1-≤2.5% |
| EINECS: 245-842-1 | ⚠ Skin Irritation 2, H315; Sensitization - Skin 1B, H317 |          |

### 4 First-aid measures

- **Description of first aid measures**
- **After inhalation:**  
Supply fresh air and be sure to call for a doctor.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or alcoholresistant foam.

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CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire fighting measures that suit the environment.

- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.
- **Additional information**  
Cool endangered receptacles with water spray.  
Collect contaminated fire fighting water separately. It must not enter the sewage system.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:**  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to section 13.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· **PAC-1:**

|               |           |                      |
|---------------|-----------|----------------------|
| CAS: 102-76-1 | Triacetin | 19 mg/m <sup>3</sup> |
|---------------|-----------|----------------------|

· **PAC-2:**

|               |           |                       |
|---------------|-----------|-----------------------|
| CAS: 102-76-1 | Triacetin | 210 mg/m <sup>3</sup> |
|---------------|-----------|-----------------------|

· **PAC-3:**

|               |           |                         |
|---------------|-----------|-------------------------|
| CAS: 102-76-1 | Triacetin | 1,200 mg/m <sup>3</sup> |
|---------------|-----------|-------------------------|

### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
No special requirements.  
Please refer to the product specification and/or Certificate of Analysis for product storage requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Specific end use(s)** No further relevant information available.

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## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
 The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation were used as a basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
 Immediately remove all soiled and contaminated clothing.  
 Wash hands before breaks and at the end of work.
- **Breathing equipment:**  
 In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material should be based on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**  
 The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**  
 The exact break through time has to be determined by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Goggles recommended during refilling.

## 9 Physical and chemical properties

- |  |                                    |
|--|------------------------------------|
| <b>Information on basic physical and chemical properties</b> |                                    |
| <b>General Information</b>                                   | Molecular Weight: 218.21 g/mol     |
| <b>Appearance:</b>   |                                    |
| <b>Form:</b>   | Liquid                             |
| <b>Color:</b>  | According to product specification |
| <b>Odor:</b>   | According to product specification |
| <b>Odor threshold:</b>                                       | Not determined.                    |
| <b>pH-value:</b>   | Not determined.                    |
| <b>Change in condition</b>                                   |                                    |
| <b>Melting point/Melting range:</b>                          | Undetermined.                      |

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|   |  |
|---|--|
| <b>Boiling point/Boiling range:</b>               | Undetermined.  |
| · <b>Flash point:</b>                             | >110 °C (>230 °F)                                    |
| · <b>Flammability (solid, gaseous):</b>           | Not applicable.                                      |
| · <b>Decomposition temperature:</b>               | Not determined.                                      |
| · <b>Ignition temperature:</b>                    | Product is not selfigniting.                         |
| · <b>Danger of explosion:</b>                     | Product does not present an explosion hazard.        |
| · <b>Explosion limits:</b>                        |  |
| <b>Lower:</b>                                     | 3.5 Vol %  |
| <b>Upper:</b>                                     | 15 Vol %   |
| · <b>Vapor pressure at 20 °C (68 °F):</b>         | 59 hPa (44.3 mm Hg)                                  |
| · <b>Vapor pressure at 50 °C (122 °F):</b>        | 280 hPa (210 mm Hg)                                  |
| · <b>Density at 20 °C (68 °F):</b>                | 1.15-1.16 g/cm <sup>3</sup> (9.59675-9.6802 lbs/gal) |
| · <b>Relative density</b>                         | Not determined.                                      |
| · <b>Vapor density</b>                            | Not determined.                                      |
| · <b>Evaporation rate</b>                         | Not determined.                                      |
| · <b>Solubility in / Miscibility with Water:</b>  | Fully miscible.                                      |
| · <b>Partition coefficient (n-octanol/water):</b> | Not determined.                                      |
| · <b>Viscosity:</b>                               |  |
| <b>Dynamic:</b>                                   | Not determined.                                      |
| <b>Kinematic:</b>                                 | Not determined.                                      |
| · <b>Solvent content:</b>                         |  |
| <b>VOC content:</b>                               | 0.00 %<br>0.0 g/l / 0.00 lb/gal                      |
| <b>Solids content:</b>                            | 0.0 %  |
| · <b>Other information</b>                        | No further relevant information available.           |

**10 Stability and reactivity**

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

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**11 Toxicological information**

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

**12 Ecological information**

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 2 (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

**13 Disposal considerations**

- **Waste treatment methods**
- **Recommendation:**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

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· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

**14 Transport information**

|   |  |
|---|--|
| · UN-Number   |  |
| · DOT, IMDG, IATA   | Not Regulated  |
| · UN proper shipping name   |  |
| · DOT, IMDG, IATA   | Not Regulated  |
| · Transport hazard class(es)  |  |
| · DOT, ADN, IMDG, IATA  |  |
| · Class   | Not Regulated  |
| · Packing group   |  |
| · DOT, IMDG, IATA   | Not Regulated  |
| · Environmental hazards:  | Not applicable.                                      |
| · Special precautions for user  | Not applicable.                                      |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable.                                      |
| · Transport/Additional information:                                       | Not dangerous according to the above specifications. |
| · UN "Model Regulation":  | Not Regulated  |

**15 Regulatory information**

|  |
|--|
| · Safety, health and environmental regulations/legislation specific for the substance or mixture |
| · Sara   |
| · <b>Section 355 (extremely hazardous substances):</b>   |
| None of the ingredients is listed.   |
| · <b>Section 313 (Specific toxic chemical listings):</b>   |
| None of the ingredients is listed.   |
| · <b>TSCA (Toxic Substances Control Act):</b>  |
| All components have the value ACTIVE.  |
| · <b>Hazardous Air Pollutants</b>  |
| None of the ingredients is listed.   |
| · <b>Proposition 65</b>  |
| · <b>Chemicals known to cause cancer:</b>  |
| None of the ingredients is listed.   |
| · <b>Chemicals known to cause reproductive toxicity for females:</b>                             |
| None of the ingredients is listed.   |
| · <b>Chemicals known to cause reproductive toxicity for males:</b>                               |
| None of the ingredients is listed.   |

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· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **GHS label elements**

Pictograms on label shall be in the shape of a square set at a point and shall include a black hazard symbol on a white background with a red frame sufficiently wide to be clearly visible.

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS07

· **Signal word** Warning

· **Hazard-determining components of labeling:**

Beta-Damascone

· **Hazard statements**

H317 May cause an allergic skin reaction.

· **Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P280 Wear protective gloves.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P321 Specific treatment (see on this label).

P363 Wash contaminated clothing before reuse.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

· **Department issuing SDS:** Product Safety Department

· **Contact:**

Product Safety Department

productsafety@adv-bio.com

· **Date of preparation / last revision** 01/16/2024

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**Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 DOT: US Department of Transportation  
 IATA: International Air Transport Association  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 NFPA: National Fire Protection Association (USA)  
 HMIS: Hazardous Materials Identification System (USA)  
 VOC: Volatile Organic Compounds (USA, EU)  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative  
 NIOSH: National Institute for Occupational Safety  
 OSHA: Occupational Safety & Health  
 TLV: Threshold Limit Value  
 PEL: Permissible Exposure Limit  
 REL: Recommended Exposure Limit  
 Skin Irritation 2: Skin corrosion/irritation – Category 2  
 Sensitization - Skin 1: Skin sensitisation – Category 1  
 Sensitization - Skin 1B: Skin sensitisation – Category 1B

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