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Reviewed on 01/24/2025





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Safety Data Sheet acc. to OSHA HCS (29 CFR § 1910.1200)

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		(Continuation of page 1)
Hazard-o	determining components of labeling:	
Beta Dar	nascenone	
Hazard s	statements	
H315 Ca	uses skin irritation.	
H317 Ma	y cause an allergic skin reaction.	
	onary statements	
P261	Avoid breathing dust/fume/gas/mist/vapors/spray	
P280	Wear protective gloves.	
	64 Take off contaminated clothing and wash it before reuse.	
P333+P3	13 If skin irritation or rash occurs: Get medical advice/attention.	
P321	Specific treatment (see on this label).	
P501	Dispose of contents/container in accordance with local/regional/r	ational/international
	regulations.	
	ion pertaining to particular dangers for man and environment:	
Classific	ation system:	
NFPA ra	tings (scale 0 - 4)	
	Health = 1	
	Fire = 1	
	Reactivity = 0	
HMIS-rat	tings (scale 0 - 4)	
HEALTH	1 Health = 1	
FIRE	1 Fire = 1	
REACTIVIT	Yo Reactivity = 0	
Other ha	zards	
	of PBT and vPvB assessment	
	t applicable.	
	ot applicable.	
	ation according to (d)(1)(ii) of § 1910.1200	
	S issuer does not object to the classifications provided by importers	or manufacturers of
	r products.	
	not otherwise classified	
	e no adverse physical or health effects known that are not covered by the	hazard classes of the
	Communications Standard.	
Compo	osition/information on ingredients	
Chemica	I characterization: Substances	
CAS No.	Description	
	696-85-7 Beta Damascenone	
Identific	ation number(s)	
	hor: 245 933 2	

• EC number: 245-833-2

4 First-aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately rinse with water.

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- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult 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:
 CO2, powder or alcoholresistant foam.
 CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- 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: 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.
- Protective Action Criteria for Chemicals
- · PAC-1:

Substance is not listed.

· PAC-2:

Substance is not listed.

· PAC-3:

Substance is not listed.

· 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.

7 Handling and storage

- 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.

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- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles:
- 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.

8 Exposure controls/personal protection

- · Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the creation were used as a basis.
- Exposure controls
- Appropriate engineering controls No further data; see section 7.
- 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.

· 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.

· Information on basic physical an	d chemical properties	
General Information	Molecular Weight: 190.28566 g/mol	
 Physical state 	Liquid	
· Color:	According to product specification	
· Odor:	According to product specification	
· Odor threshold:	Not determined.	



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Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	275 °C (527 °F)
Flammability:	Not applicable.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	107 °C (224.6 °F)
Decomposition temperature:	Not determined.
pH-value:	Not determined.
Viscosity:	
Kinematic:	Not determined.
Dynamic:	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	Not determined.
Vapor pressure at 20 °C (68 °F):	0.02 hPa (0 mm Hg)
Vapor pressure:	
Density at 20 °C (68 °F):	0.95 g/cm³ (7.92775 lbs/gal)
Relative density	Not determined.
Refractive Index	
Vapor density	Not determined.
Particle characteristics	Not applicable.
Other information	
Appearance:	
Form:	Liquid
Important information on protection of h	
and environment, and on safety.	
Ignition temperature:	Not determined.
Danger of explosion:	Product does not present an explosion hazard.
VOC content:	0.00 %
	0.0 g/l / 0.00 lb/gal
Change in condition	5 5
Evaporation rate	Not determined.

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.
- \cdot 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:
- · LD/LC50 values that are relevant for classification:
- CAS: 23696-85-7 Beta Damascenone
- Dermal LD50 2,900 mg/kg (ATE)
- Primary irritant effect:
- on the skin: No irritant effect.
- · on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- Additional toxicological information:
- · Interactive effects No interactive effects between components are known.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

Substance is not listed.

· NTP (National Toxicology Program)

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

· Alternative sources for toxicological information

No non-standard sources for toxicological information where used.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · **Bioaccumulative potential** No further relevant information available.
- Mobility in soil No further relevant information available.
- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 2 (Assessment by list): 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.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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• Uncleaned packagings:
 • Recommendation: Disposal must be made according to official regulations.

UN-Number	
DOT, IMDG, IATA	UN3082
UN proper shipping name	
DOT	Environmentally hazardous substance, liquid, n.o.s. (Be
IMDG, IATA	Damascenone) ENVIRONMENTALLY HAZARDOUS SUBSTANC
	LIQUID, N.O.S. (Beta Damascenone)
Transport hazard class(es)	
DOT	
A	
<i>«</i> ∩Ih <i>»</i>	
*	
Class	9 Miscellaneous dangerous substances and articles
Label	9
IMDG, IATA	
	C
Class	9 Miscellaneous dangerous substances and articles
Label	9
Packing group	
DOT, IMDG, IATA	III
Environmental hazards:	Νο
Marine pollutant:	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
Special marking (IATA):	Symbol (fish and tree)
Transport in bulk according to Annex	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: No limit On cargo aircraft only: No limit



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IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
Special precautions for user	Warning: Miscellaneous dangerous substances a
	articles
Stowage Category	Α
UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOL
-	SUBSTANCE, LIQUID, N.O.S. (BETA DAMASCENON
	9. []]

15 Regulatory information

 $^{\cdot}$ Safety, health and environmental regulations/legislation specific for the substance or mixture $^{\cdot}$ Sara

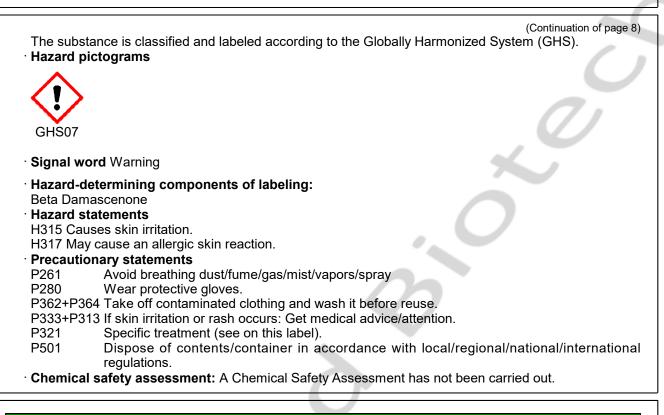
Suit
Section 355 (extremely hazardous substances):
Substance is not listed.
· Section 313 (Specific toxic chemical listings):
Substance is not listed.
• TSCA (Toxic Substances Control Act):
ACTIVE
· Hazardous Air Pollutants
Substance is not listed.
· Proposition 65
· Chemicals known to cause cancer:
Substance is not listed.
· Chemicals known to cause reproductive toxicity for females:
Substance is not listed.
· Chemicals known to cause reproductive toxicity for males:
Substance is not listed.
· Chemicals known to cause developmental toxicity:
Substance is not listed.
· Carcinogenic categories
· EPA (Environmental Protection Agency)
Substance is not listed.
· TLV (Threshold Limit Value)
Substance is not listed.
• NIOSH-Ca (National Institute for Occupational Safety and Health)
Substance is not listed.
 GHS label elements Pictograms on label shall be in the shape of a square set at a point and shall include a black haza symbol on a white background with a red frame sufficiently wide to be clearly visible.
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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.

- · Department issuing SDS: Product Safety Department
- · Contact: **Product Safety Department** productsafety@adv-bio.com Date of previous version 01/10/2023 • Date of preparation 01/24/2025 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 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, ÉU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent 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 1A: Skin sensitisation - Category 1A