

Safety Data Sheet

acc. to OSHA HCS (29 CFR § 1910.1200)

Printing date 01/17/2024

Reviewed on 01/17/2024

1 Identification

- **Product identifier**
- **Trade name: Chocolate Supreme OS Natural**
- **Product number:** 6113
- **Application of the substance / the mixture** Flavoring Ingredients
- **Details of the supplier of the safety data sheet**
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- **Manufacturer/Supplier:**
 Advanced Biotech
 10 Taft Road
 Totowa, NJ 07512 USA
- **Information department:**
 Product Safety Department
 productsafety@adv-bio.com
- **Emergency telephone number:**
 Infotrac: 1-800-535-5053 (Domestic) & 1-352-323-3500 (International)
 Email: responders@infotrac.net & During normal business hours: 1-973-339-6242

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flammable Liquids 3 H226 Flammable liquid and vapor.

- **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**



GHS02

- **Signal word** Warning

- **Hazard statements**
 H226 Flammable liquid and vapor.

- **Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 P241 Use explosion-proof electrical/ventilating/lighting/equipment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.

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P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P403+P235 Store in a well-ventilated place. Keep cool.

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

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 0
Fire = 3
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



HEALTH 0 Health = 0
FIRE 3 Fire = 3
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:**

Proprietary GRAS Ingredient

⚠ Eye Irritation 2A, H319 ≤2.5%

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.

· **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:**

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **Special hazards arising from the substance or mixture** No further relevant information available.

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- **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**
 Wear protective equipment. Keep unprotected persons away.
- **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.
- **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: 100-51-6	Benzyl alcohol	30 ppm
CAS: 57-10-3	Palmitic acid	0.19 mg/m ³
CAS: 64-19-7	Acetic acid	5 ppm
	α-Furfuraldehyde	2 ppm
CAS: 112-12-9	2-Undecanone	0.91 ppm
CAS: 57-55-6	Propylene glycol	30 mg/m ³
CAS: 100-52-7	Benzaldehyde	4 ppm
CAS: 64-17-5	Ethanol	1,800 ppm
CAS: 123-72-8	Butyraldehyde	75 ppm
CAS: 79-31-2	Isobutyric acid	0.23 ppm
CAS: 120-51-4	Benzyl benzoate	5.7 mg/m ³

· **PAC-2:**

CAS: 100-51-6	Benzyl alcohol	52 ppm
CAS: 57-10-3	Palmitic acid	2.1 mg/m ³
CAS: 64-19-7	Acetic acid	35 ppm
	α-Furfuraldehyde	10 ppm
CAS: 112-12-9	2-Undecanone	10 ppm
CAS: 57-55-6	Propylene glycol	1,300 mg/m ³
CAS: 100-52-7	Benzaldehyde	9.9 ppm
CAS: 64-17-5	Ethanol	3300* ppm
CAS: 123-72-8	Butyraldehyde	430 ppm
CAS: 79-31-2	Isobutyric acid	2.6 ppm
CAS: 120-51-4	Benzyl benzoate	63 mg/m ³

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· PAC-3:		
CAS: 100-51-6	Benzyl alcohol	740 ppm
CAS: 57-10-3	Palmitic acid	12 mg/m ³
CAS: 64-19-7	Acetic acid	250 ppm
	α-Furfuraldehyde	100 ppm
CAS: 112-12-9	2-Undecanone	60 ppm
CAS: 57-55-6	Propylene glycol	7,900 mg/m ³
CAS: 100-52-7	Benzaldehyde	59 ppm
CAS: 64-17-5	Ethanol	15000* ppm
CAS: 123-72-8	Butyraldehyde	830 ppm
CAS: 79-31-2	Isobutyric acid	15 ppm
CAS: 120-51-4	Benzyl benzoate	380 mg/m ³

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about protection against explosions and fires:**
 Keep ignition sources away - Do not smoke.
 Protect against electrostatic charges.
- **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:** Keep receptacle tightly sealed.
- **Specific end use(s)** No further relevant information available.

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:**

Proprietary GRAS Ingredient	
WEEL	Long-term value: 10 mg/m ³

- **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:** Not required.

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· **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:**



Tightly sealed goggles

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

General Information

Molecular Weight: 276.29 g/mol

· **Appearance:**

Form:

Liquid

Color:

According to product specification

· **Odor:**

According to product specification

· **Odor threshold:**

Not determined.

· **pH-value:**

Not determined.

· **Change in condition**

Melting point/Melting range:

Undetermined.

Boiling point/Boiling range:

Undetermined.

· **Flash point:**

25.1 °C (77.2 °F)

· **Flammability (solid, gaseous):**

Flammable.

· **Decomposition temperature:**

Not determined.

· **Ignition temperature:**

Product is not selfigniting.

· **Danger of explosion:**

Product is not explosive. However, formation of explosive air/ vapor mixtures are possible.

· **Explosion limits:**

Lower:

Not determined.

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Upper:	Not determined.
· Vapor pressure:	Not determined.
· Density at 20 °C (68 °F):	1.135-1.155 g/cm ³ (9.47158-9.63848 lbs/gal)
· Specific Gravity	1.135 - 1.155 @ 20 °C (34 - 34.1 @ 68 °F)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	0.1 %
Water:	0 %
VOC content:	0.02 % 0.3 g/l / 0 lb/gal
Solids content:	2.3-2.4 %
· Other information	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.

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:** No sensitizing effects known.
- **Additional toxicological information:**
- **Carcinogenic categories**

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

	α-Furfuraldehyde	3
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CAS: 64-17-5	Ethanol	1
CAS: 123-72-8	Butyraldehyde	3

· **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 1 (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **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.

14 Transport information

· UN-Number	UN1197
· DOT, IMDG, IATA	
· UN proper shipping name	Extracts, flavoring, liquid
· DOT	EXTRACTS, LIQUID
· IMDG	
· IATA	Extracts, liquid

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· Transport hazard class(es)

· DOT



· Class 3 Flammable liquids
· Label 3

· IMDG, IATA



· Class 3 Flammable liquids
· Label 3

· Packing group III
· DOT, IMDG, IATA

· Environmental hazards: Not applicable.

· Special precautions for user Warning: Flammable liquids
· Hazard identification number (Kemler code): 30
· EMS Number: F-E,S-D
· Stowage Category A

· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

· Transport/Additional information:

· DOT
· Quantity limitations On passenger aircraft/rail: 60 L
On cargo aircraft only: 220 L

· 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

· UN "Model Regulation": UN 1197 EXTRACTS, LIQUID, 3, III

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture
· Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

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Section 313 (Specific toxic chemical listings):		
CAS: 123-72-8	Butyraldehyde	
TSCA (Toxic Substances Control Act):		
CAS: 77-93-0	Triethyl citrate	ACTIVE
	Proprietary GRAS Ingredient	ACTIVE
CAS: 100-51-6	Benzyl alcohol	ACTIVE
CAS: 57-10-3	Palmitic acid	ACTIVE
CAS: 118-71-8	Maltol (3-Hydroxy-2-methyl-4-pyrone)	ACTIVE
CAS: 590-86-3	3-Methylbutyraldehyde	ACTIVE
CAS: 64-19-7	Acetic acid	ACTIVE
CAS: 78-70-6	Linalool	ACTIVE
CAS: 90-05-1	Guaiacol	ACTIVE
CAS: 1124-11-4	2,3,5,6-Tetramethylpyrazine	ACTIVE
	α -Furfuraldehyde	ACTIVE
	Proprietary GRAS Ingredient	ACTIVE
CAS: 101-97-3	Ethyl phenylacetate	ACTIVE
CAS: 120-57-0	Piperonal	ACTIVE
CAS: 112-12-9	2-Undecanone	ACTIVE
CAS: 57-55-6	Propylene glycol	ACTIVE
CAS: 108-50-9	2,6-Dimethylpyrazine	ACTIVE
CAS: 100-52-7	Benzaldehyde	ACTIVE
CAS: 620-02-0	5-Methylfurfural	ACTIVE
CAS: 64-17-5	Ethanol	ACTIVE
CAS: 123-72-8	Butyraldehyde	ACTIVE
CAS: 79-31-2	Isobutyric acid	ACTIVE
CAS: 106-32-1	Ethyl octanoate	ACTIVE
CAS: 120-51-4	Benzyl benzoate	ACTIVE
CAS: 503-74-2	Isovaleric acid	ACTIVE
CAS: 110-38-3	Ethyl decanoate	ACTIVE
CAS: 13360-65-1	2-Ethyl-3,6-dimethylpyrazine	ACTIVE
CAS: 13925-07-0	2-Ethyl-3,5-dimethylpyrazine	ACTIVE
CAS: 35158-25-9	2-Isopropyl-5-Methyl-2-Hexenal	ACTIVE
CAS: 7732-18-5	Deionized Water	ACTIVE

Hazardous Air Pollutants
None of the ingredients is listed.

Proposition 65
Chemicals known to cause cancer:
CAS: 100-52-7 | Benzaldehyde

Chemicals known to cause reproductive toxicity for females:
None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:
None of the ingredients is listed.

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

CAS: 64-17-5	Ethanol
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· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value)**

	α -Furfuraldehyde	A3
CAS: 64-17-5	Ethanol	A3

· **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**



GHS02

· **Signal word** Warning

· **Hazard statements**

H226 Flammable liquid and vapor.

· **Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P403+P235 Store in a well-ventilated place. Keep cool.

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**

H319 Causes serious eye irritation.

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

· **Contact:**

Product Safety Department
productsafety@adv-bio.com

· **Date of preparation / last revision** 01/17/2024

· **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)

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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
Flammable Liquids 3: Flammable liquids – Category 3
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A

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