

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 Natural
- **Product number:** 6098
- **Application of the substance / the mixture** Flavoring Ingredients
- **Details of the supplier of the safety data sheet**
 DISCLAIMER: The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. Advanced Biotech makes NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the Advanced Biotech product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of an Advanced Biotech product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the Advanced Biotech product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.
- **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**



GHS07

Eye Irritation 2A H319 Causes serious eye irritation.

Flammable Liquids 4 H227 Combustible liquid.

- **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 statements**

H227 Combustible liquid.

H319 Causes serious eye irritation.

- **Precautionary statements**

P210

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

(Continued on page 2)

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

Printing date 01/17/2024

Reviewed on 01/17/2024

Trade name: Chocolate Supreme Natural

(Continuation of page 1)

- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- 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)**



· **HMIS-ratings (scale 0 - 4)**



· **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:**

	Glycerine	50-100%
CAS: 64-17-5 EINECS: 200-578-6	Ethanol ⚠ Flammable Liquids 2, H225; ⚠ Eye Irritation 2A, H319	10-25%
	Proprietary GRAS Ingredient ⚠ Eye Irritation 2A, H319	≤2.5%

4 First-aid measures

· **Description of first aid measures**

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **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.

US

(Continued on page 3)

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

Printing date 01/17/2024

Reviewed on 01/17/2024

Trade name: **Chocolate Supreme Natural**

(Continuation of page 2)

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.
- **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**
Wear protective equipment. Keep unprotected persons away.
- **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:**

	Glycerine	45 mg/m ³
CAS: 64-17-5	Ethanol	1,800 ppm
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:**

	Glycerine	180 mg/m ³
CAS: 64-17-5	Ethanol	3300* ppm
CAS: 100-51-6	Benzyl alcohol	52 ppm
CAS: 57-10-3	Palmitic acid	2.1 mg/m ³

(Continued on page 4)

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

Printing date 01/17/2024

Reviewed on 01/17/2024

Trade name: Chocolate Supreme Natural

(Continuation of page 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

PAC-3:

	Glycerine	1,100 mg/m ³
CAS: 64-17-5	Ethanol	15000* ppm
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.
- **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.

(Continued on page 5)

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

Printing date 01/17/2024

Reviewed on 01/17/2024

Trade name: Chocolate Supreme Natural

(Continuation of page 4)

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

Glycerine	
PEL	Long-term value: 15* 5** mg/m ³ mist; *total dust **respirable fraction
TLV	TLV withdrawn-insufficient data human occup. exp.
CAS: 64-17-5 Ethanol	
PEL	Long-term value: 1900 mg/m ³ , 1000 ppm
REL	Long-term value: 1900 mg/m ³ , 1000 ppm
TLV	Short-term value: 1000 ppm A3
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:**

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes.
- Avoid contact with the eyes and skin.

· **Breathing equipment:** Not required.

· **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.

(Continued on page 6)

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

Printing date 01/17/2024

Reviewed on 01/17/2024

Trade name: Chocolate Supreme Natural

(Continuation of page 5)

· **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

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

· **General Information**

· **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:**

71.1 °C (160 °F)

· **Flammability (solid, gaseous):**

Not applicable.

· **Auto igniting:**

400 °C (752 °F)

· **Decomposition temperature:**

Not determined.

· **Ignition temperature:**

Product is not selfigniting.

· **Danger of explosion:**

Not determined.

· **Explosion limits:**

· **Lower:**

3.5 Vol %

· **Upper:**

15 Vol %

· **Vapor pressure at 20 °C (68 °F):**

59 hPa (44.3 mm Hg)

· **Density at 20 °C (68 °F):**

1.13-1.16 g/cm³ (9.42985-9.6802 lbs/gal)

· **Specific Gravity**

1.130 – 1.160 @ 20 °C (34 – 34.1 @ 68 °F)

· **Relative density**

Not determined.

· **Vapor density**

Not determined.

· **Evaporation rate**

Not determined.

· **Solubility in / Miscibility with**

· **Water:**

Fully miscible.

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity:**

· **Dynamic:**

Not determined.

· **Kinematic:**

Not determined.

· **Solvent content:**

· **Organic solvents:**

97.8 %

(Continued on page 7)

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

Printing date 01/17/2024

Reviewed on 01/17/2024

Trade name: Chocolate Supreme Natural

(Continuation of page 6)

Water:	0 %
VOC content:	21.58 % 243.8-250.3 g/l / 2.03-2.09 lb/gal
Solids content:	2.8 %
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:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **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)		
CAS: 64-17-5	Ethanol	1
	α-Furfuraldehyde	3
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.

(Continued on page 8)

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

Printing date 01/17/2024

Reviewed on 01/17/2024

Trade name: **Chocolate Supreme Natural**



(Continuation of page 7)

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

14 Transport information

- | | |
|---|-----------------------------|
| · UN-Number | |
| · DOT, IMDG, IATA | UN1197 |
| · UN proper shipping name | |
| · DOT | Extracts, flavoring, liquid |
| · IMDG | EXTRACTS, LIQUID |
| · IATA | Extracts, liquid |
| · Transport hazard class(es) | |
| · DOT | |
|  | |
| · Class | 3 Flammable liquids |
| · Label | 3 |
| ----- | |
| · IMDG, IATA | |
|  | |
| · Class | 3 Flammable liquids |

(Continued on page 9)

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

Printing date 01/17/2024

Reviewed on 01/17/2024

Trade name: **Chocolate Supreme Natural**

(Continuation of page 8)

· Label	3
· Packing group	
· DOT, IMDG, IATA	III
· 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.

· Section 313 (Specific toxic chemical listings):

CAS: 123-72-8 | Butyraldehyde

· TSCA (Toxic Substances Control Act):

	Glycerine	ACTIVE
CAS: 64-17-5	Ethanol	ACTIVE
	Proprietary GRAS Ingredient	ACTIVE
CAS: 100-51-6	Benzyl alcohol	ACTIVE
CAS: 57-10-3	Palmitic acid	ACTIVE
CAS: 14667-55-1	2,3,5-Trimethylpyrazine	ACTIVE
CAS: 118-71-8	Maltol (3-Hydroxy-2-methyl-4-pyrone)	ACTIVE
CAS: 590-86-3	3-Methylbutyraldehyde	ACTIVE
CAS: 3658-77-3	Furaneol	ACTIVE
CAS: 64-19-7	Acetic acid	ACTIVE
CAS: 90-05-1	Guaiacol	ACTIVE
CAS: 1124-11-4	2,3,5,6-Tetramethylpyrazine	ACTIVE

(Continued on page 10)

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

Printing date 01/17/2024

Reviewed on 01/17/2024

Trade name: Chocolate Supreme Natural

(Continuation of page 9)

	α-Furfuraldehyde	ACTIVE
CAS: 80-71-7	Methylcyclopentenolone	ACTIVE
	Proprietary GRAS Ingredient	ACTIVE
CAS: 101-97-3	Ethyl phenylacetate	ACTIVE
CAS: 108-50-9	2,6-Dimethylpyrazine	ACTIVE
CAS: 120-57-0	Piperonal	ACTIVE
CAS: 112-12-9	2-Undecanone	ACTIVE
CAS: 13360-64-0	2-Ethyl-5-Methyl Pyrazine	ACTIVE
CAS: 123-32-0	2,5-Dimethylpyrazine	ACTIVE
CAS: 57-55-6	Propylene glycol	ACTIVE
CAS: 100-52-7	Benzaldehyde	ACTIVE
CAS: 620-02-0	5-Methylfurfural	ACTIVE
CAS: 64-17-5	Ethanol	ACTIVE
CAS: 13360-65-1	2-Ethyl-3,6-dimethylpyrazine	ACTIVE
CAS: 13925-07-0	2-Ethyl-3,5-dimethylpyrazine	ACTIVE
CAS: 123-72-8	Butyraldehyde	ACTIVE
CAS: 79-31-2	Isobutyric acid	ACTIVE
CAS: 106-32-1	Ethyl octanoate	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.

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

CAS: 64-17-5 Ethanol

CAS: 64-17-5 Ethanol

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value)**

CAS: 64-17-5 Ethanol A3

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.

(Continued on page 11)

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

Printing date 01/17/2024

Reviewed on 01/17/2024

Trade name: Chocolate Supreme Natural

(Continuation of page 10)

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

· **Hazard pictograms**



GHS07

· **Signal word** Warning

· **Hazard statements**

H227 Combustible liquid.

H319 Causes serious eye irritation.

· **Precautionary statements**

P210

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

P280

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

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

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**

H225 Highly flammable liquid and vapor.

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)

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 2: Flammable liquids – Category 2

Flammable Liquids 4: Flammable liquids – Category 4

Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A