

Printing date 01/16/2024

Reviewed on 01/16/2024

## 1 Identification

- · Product identifier
- · Trade name: Thiazolidine Mixture 808 natural
- Product number: 1378
- · 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



GHS02 Flame

Flammable Liquids 2 H225 Highly flammable liquid and vapor.



Skin Irritation 2 Eye Irritation 2A H315 Causes skin irritation.

H319 Causes serious eye irritation.

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



· Signal word Danger

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### Trade name: Thiazolidine Mixture 808 natural

	(Continuation of page 1
Hazard staten	
	ammable liquid and vapor.
H315 Causes	
	serious eye irritation.
Precautionary	
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P303+P361+P	353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin wit
	water/shower.
P305+P351+P	338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses,
D400 - D005	present and easy to do. Continue rinsing.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.
Classification	
NFPA ratings	(scale 0 - 4)
н	lealth = 2
F	ire = 3
<b>20</b> R	Reactivity = 0
$\checkmark$	
HMIS-ratings	(scale 0 - 4)
HEALTH *2	Health = *2
	Fire = 3
REACTIVITY 0	Reactivity = 0
Other hazards	
	T and vPvB assessment
PBT: Not appli	
vPvB: Not app	blicable

# 3 Composition/information on ingredients

· Chemical characterization: Mixtures

• **Description:** Mixture of the substances listed below with nonhazardous additions.

· Dangerous compor	nents:	
CAS: 64-17-5	Ethanol	25-50%
EINECS: 200-578-6	🚸 Flammable Liquids 2, H225; 🚸 Eye Irritation 2A, H319	
CAS: 141-78-6	Ethyl acetate	≥10-<20%
EINECS: 205-500-4	Flammable Liquids 2, H225;  Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H336	
	2-Isopropyl-5-Methyl-2-Hexenal	≥2.5-<10%
EINECS: 252-406-4	Skin Irritation 2, H315; Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H335; Flammable Liquids 4, H227	
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•	Isovaleric acid	≥1-≤2.5%
EINECS: 207-975-3	Skin Corrosion 1B, H314; Eye Damage 1, H318; Flammable Liquids 4, H227	$\mathcal{O}$
	3-Methylbutyraldehyde	≥0.1-<1%
	Flammable Liquids 2, H225;  Eye Irritation 2A, H319; Sensitization - Skin 1B, H317; Specific Target Organ Toxicity - Single Exposure 3, H335	7

## 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. 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.

## 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.
- 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.

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### Trade name: Thiazolidine Mixture 808 natural

· Protective Action Criteria for Chemicals	(Continuation of page
PAC-1:	
CAS: 64-17-5 Ethanol	1,800 ppm
CAS: 141-78-6 Ethyl acetate	1,200 ppm
PAC-2:	
CAS: 64-17-5 Ethanol	3300* ppm
CAS: 141-78-6 Ethyl acetate	1,700 ppm
PAC-3:	
CAS: 64-17-5 Ethanol	15000* ppm
CAS: 141-78-6 Ethyl acetate	10000** ppm

## 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: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:
- Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

• 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:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

### CAS: 64-17-5 Ethanol

- PEL Long-term value: 1900 mg/m<sup>3</sup>, 1000 ppm
- REL Long-term value: 1900 mg/m<sup>3</sup>, 1000 ppm
- TLV Short-term value: 1000 ppm

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### CAS: 141-78-6 Ethyl acetate

- PEL Long-term value: 1400 mg/m<sup>3</sup>, 400 ppm
- REL Long-term value: 1400 mg/m<sup>3</sup>, 400 ppm

TLV Long-term value: 400 ppm

• Additional information: The lists that were valid during the creation were used as a basis.

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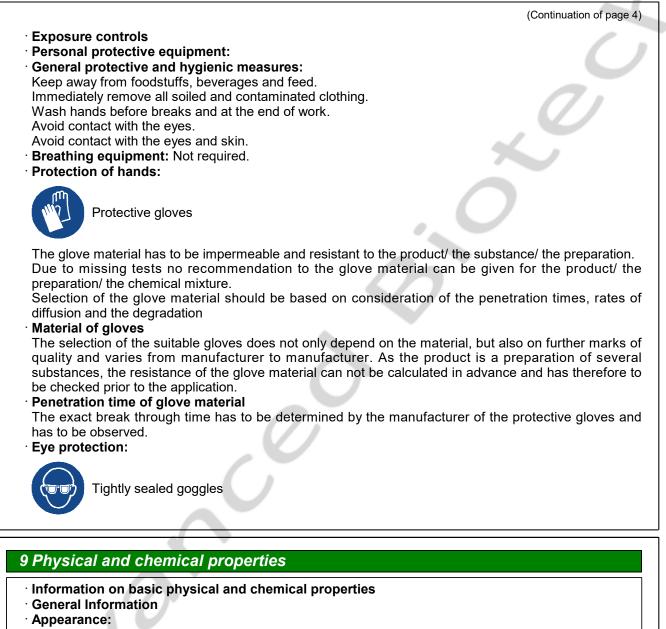
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### Trade name: Thiazolidine Mixture 808 natural



· 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:	9.8 °C (49.6 °F)		
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### Trade name: Thiazolidine Mixture 808 natural

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Flammability (solid, gaseous):	Highly flammable.
Auto igniting:	425 °C (797 °F)
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:	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):	0.875-0.95 g/cm³ (7.30188-7.92775 lbs/gal)
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/wate	er): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	$(\mathcal{T})$
Organic solvents:	51.0 %
VOC content:	51.00 %
	446.3-484.5 g/l / 3.72-4.04 lb/gal
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.

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

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#### Trade name: Thiazolidine Mixture 808 natural

- · 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

### · 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

· DOT, IMDG, IATA

UN1197

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#### Trade name: Thiazolidine Mixture 808 natural (Continuation of page 7) · UN proper shipping name · DOŤ Extracts, flavoring, liquid ·IMDG EXTRACTS, LIQUID ·IATA Extracts, liquid Transport hazard class(es) · DOT 3 Flammable liquids · Class · Label 3 · IMDG, IATA · Class **3** Flammable liquids · Label 3 Packing group · DOT, IMDG, IATA П · Environmental hazards: • Marine pollutant: No · Special precautions for user Warning: Flammable liquids Hazard identification number (Kemler code): 33 · EMS Number: F-E,S-D Stowage Category В · 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: 5 L On cargo aircraft only: 60 L ·IMDG · Limited quantities (LQ) 5L Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml UN 1197 EXTRACTS, LIQUID, 3, II · UN "Model Regulation": US

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#### Trade name: Thiazolidine Mixture 808 natural

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## 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):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

· Hazardous Air Pollutants

None of the ingredients is listed.

### · Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· 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

### · Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

TLV (Threshold Limit Value)

CAS: 64-17-5 Ethanol

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

None of the ingredients is listed.

### · GHS label elements

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## Hazard pictograms



· Signal word Danger

#### · Hazard statements

P210

H225 Highly flammable liquid and vapor.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

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

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acc. to OSHA HCS (29 CFR § 1910.1200)

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#### Trade name: Thiazolidine Mixture 808 natural

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P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P303+P361+P353	B If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with
	water/shower.
P305+P351+P338	B If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.
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Safety Data Sheet

• 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.

H227 Combustible liquid.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

#### · Department issuing SDS: Product Safety Department

· Contact:

Product Safety Department

productsafety@adv-bio.com

Date of preparation / last revision 01/16/2024

 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

Skin Corrosion 1B: Skin corrosion/irritation - Category 1B

Skin Irritation 2: Skin corrosion/irritation - Category 2

Eye Damage 1: Serious eye damage/eye irritation – Category 1

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

Sensitization - Skin 1B: Skin sensitisation - Category 1B

Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) - Category 3