

Creation Date 23-Sep-2010 Revision Date Revision Number 0

#### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier** 

Product Description: (-)-Epinephrine (+)-bitartrate salt

Cat No. 430140000; 430140010; 430140050; 430140250

Synonyms L-Adrenaline (+)-bitartrate salt; L-Adrenaline D-hydrogentartrate; L-3,4-Dihydroxy-alfa-

(methylaminomethyl)benzyl alcohol D-hydrogen bitartrate salt

Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Laboratory chemicals
Uses advised against No Information available

Details of the supplier of the safety data sheet

Company

Acros Organics BVBA

Janssen Pharmaceuticalaan 3a

2440 Geel, Belgium

**E-mail address** begel.sdsdesk@thermofisher.com

**Emergency Telephone Number** 

For information in the US, call: 001-800-ACROS-01 For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99 Emergency Number, US: 001-201-796-7100

CHEMTREC Phone Number, US: 001-800-424-9300 CHEMTREC Phone Number, Europe: 001-703-527-3887

#### 2. HAZARDS IDENTIFICATION

# Classification of the substance or mixture

# REGULATION (EC) No 1272/2008

Acute oral toxicity	Category 2
Skin Corrosion / irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ systemic toxicity (single exposure)	Category 3

#### Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R phrases mentioned in this Section, see Section 16

Symbol(s) T+ - Very toxic

R -phrase(s) R28 - Very toxic if swallowed

**Risk Combination Phrases** R36/37/38 - Irritating to eyes, respiratory system and skin



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## 2. HAZARDS IDENTIFICATION

#### **Label Elements**



Signal Word

**Danger** 

#### **Hazard Statements**

H335 - May cause respiratory irritation

H315 - Causes skin irritation

H300 - Fatal if swallowed

H319 - Causes serious eye irritation

#### Precautionary Statements - EU (§28, 1272/2008)

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician

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

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

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

#### Other Hazards

No information available.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	EC No.	Weight %	CAS-No	Classification	GHSCLAS	REACH Reg. No.
1,2-Benzenediol, 4-[1-hydroxy-2-	EEC No. 200-	>95	51-42-3	T+;R28	STOT SE 3	=
(methylamino)ethyl]-, (R)-, [R-(R,R)]-	097-1			Xi;R36/37/38	(H335)	
2,3-dihydroxybutanedioate (1:1) (salt)					Skin Irrit. 2	
51-42-3					(H315)	
					Eye Irrit. 2	
					(H319)	
					Acute Tox. 2	
					(H300)	

For the full text of the R phrases mentioned in this Section, see Section 16

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## 4. FIRST AID MEASURES

Description of first aid measures

**Eye Contact**Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes Obtain

medical attention

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes Obtain medical attention

Ingestion Do not induce vomiting Call a physician or Poison Control Center immediately

**Inhalation** Move to fresh air If breathing is difficult, give oxygen Do not use mouth-to-mouth resuscitation

if victim ingested or inhaled the substance; induce artificial respiration with a respiratory

medical device Obtain medical attention

Notes to Physician Treat symptomatically

#### 5. FIRE-FIGHTING MEASURES

**Extinguishing media** 

**Suitable Extinguishing Media** 

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

Extinguishing media which must not be used for safety reasons

No information available.

Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors

Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear Thermal decomposition can lead to release of irritating gases and vapors

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas. Avoid dust formation.

**Environmental precautions** 

Should not be released into the environment.

Methods and material for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.

#### 7. HANDLING AND STORAGE

**Precautions for Safe Handling** 

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#### 7. HANDLING AND STORAGE

Use only under a chemical fume hood Wear personal protective equipment Do not get in eyes, on skin, or on clothing Avoid dust formation Do not breathe vapors/dust Do not ingest

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place Keep refrigerated Keep locked-up Store under an inert atmosphere

Specific End Uses

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

**Exposure limits** This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

**Derived No Effect Level (DNEL) Predicted No Effect Concentration** 

(PNEC)

**Exposure controls Engineering Measures** 

Use only under a chemical fume hood Ensure that eyewash stations and safety showers are

close to the workstation location

No information available.

No information available.

Personal protective equipment

**Eve Protection Hand Protection**  Safety glasses with side-shields

Protective gloves

Skin and body protection **Respiratory Protection** 

Wear appropriate protective gloves and clothing to prevent skin exposure

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits

are exceeded or if irritation or other symptoms are experienced

**Hygiene Measures** 

Handle in accordance with good industrial hygiene and safety practice

**Environmental exposure controls** 

No information available.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State** Solid **Appearance** White

4 20 g/L aq.sol. pН

No information available. **Boiling Point/Range** 

**Melting Point/Range** 155°C

**Flash Point** No information available. **Autoignition Temperature** No information available. Molecular Formula C9 H13 N O3 . C4 H6 O6

**Molecular Weight** 333.29

## 10. STABILITY AND REACTIVITY

Reactivity



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## 10. STABILITY AND REACTIVITY

**Chemical Stability** 

Light sensitive. Air sensitive.

**Possibility of Hazardous Reactions** 

Hazardous Polymerization Hazardous polymerization does not occur.

**Hazardous Reactions** . None under normal processing..

**Conditions to Avoid** 

Incompatible products, Excess heat, Avoid dust formation, Exposure to air, Exposure to light.

**Incompatible Materials** 

Bases, copper, Oxidizing agents.

**Hazardous Decomposition Products** 

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NOx).

## 11. TOXICOLOGICAL INFORMATION

#### **Information on Toxicological Effects**

**Acute Toxicity** 

**Product Information** See actual entry in RTECS for complete information.

**Component Information** 

**Chronic Toxicity** 

Carcinogenicity There are no known carcinogenic chemicals in this product

SensitizationNo information available.Mutagenic EffectsNo information availableReproductive EffectsNo information available.Developmental EffectsNo information available.

Target Organs Respiratory system Eyes Skin Liver

Other Adverse Effects The toxicological properties have not been fully investigated. See actual entry in RTECS for

complete information

**Endocrine Disruptor Information** None known

#### 12. ECOLOGICAL INFORMATION

**Toxicity** 

**Ecotoxicity effects** Do not empty into drains

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## 12. ECOLOGICAL INFORMATION

#### Persistence and degradability

No information available

# Bioaccumulative potential

No information available.

#### Mobility in soil

No information available.

#### Results of PBT and vPvB assessment

Other adverse effects

No information available

# 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from Residues / Unused

**Products** 

Dispose of in accordance with local regulations

Contaminated Packaging Empty containers should be taken for local recycling, recovery or waste disposal

# 14. TRANSPORT INFORMATION

#### IMDG/IMO

UN-No UN2811 Hazard Class 6.1 Packing Group I

Proper Shipping Name Toxic solid, organic, n.o.s

**ADR** 

UN-No UN2811 Hazard Class 6.1 Packing Group I

Proper Shipping Name

Toxic solid, organic, n.o.s

**IATA** 

UN-No UN2811 Hazard Class 6.1 Packing Group I

Proper Shipping Name Toxic solid, organic, n.o.s



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#### 15. REGULATORY INFORMATION

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

#### International Inventories

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	CHINA	AICS	KECL
1,2-Benzenediol, 4-[1-hydroxy-2-	200-097-1	-		-	Χ	-	-	-	-	X	-
(methylamino)ethyl]-, (R)-, [R- (R,R)]-2,3-dihydroxybutanedioate (1:1) (salt)											

#### Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

**EINECS/ELINCS** - European Inventory Lists

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**CHINA** - China Inventory of Existing Chemical Substances

**AICS** - Inventory of Chemical Substances

**KECL** - Existing and Evaluated Chemical Substances

#### **Chemical Safety Assessment**

## **16. OTHER INFORMATION**

#### Text of R phrases mentioned in Section 2-3

No information available.

#### **Revision Date**

Revision Summary Not applicable

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text

**End of Safety Data Sheet** 

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