

Creation Date 03-Mar-2011 Revision Date 05-Dec-2011 Revision Number 2

# SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product Identifier** 

Product Description: 2-Amino-2-thiazoline

Cat No. 438850000; 438850050; 438851000

**Synonyms** 4,5-Dihydro-2-Thiazolamine; 2-Iminothiazolidine.

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

### **SECTION 2. HAZARDS IDENTIFICATION**

## Classification of the substance or mixture REGULATION (EC) No 1272/2008

Acute oral toxicity	Category 4
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 and H-Statements mentioned in this Section, see Section 16

Symbol(s) Xn - Harmful

R-phrase(s) R22 - Harmful if swallowed

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



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### **SECTION 2. HAZARDS IDENTIFICATION**

#### **Label Elements**



#### Signal Word

#### Warning

#### **Hazard Statements**

H315 - Causes skin irritation

H302 - Harmful if swallowed

H335 - May cause respiratory irritation

H319 - Causes serious eye irritation

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

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

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell

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.

### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	EC-No.	Weight %	CAS-No	67/548/EEC Classification	CLP Classification - Regulation (EC) No 1272/2008	REACH No.
2-Thiazolamine, 4,5-dihydro- 1779-81-3	EEC No. 217-224-1	98	1779-81-3	Xn; R22 Xi; R36/37/38	Acute Tox. 4 (H302) Eye Irrit. 2 (H319) STOT SE 3 (H335) Skin Irrit. 2 (H315)	-

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16



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### **SECTION 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. Remove and wash

contaminated clothing before re-use. Obtain medical attention.

**Ingestion** Do not induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious

person. 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

### **SECTION 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.

### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

#### Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment. 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.



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### SECTION 7. HANDLING AND STORAGE

#### **Precautions for Safe Handling**

Wear personal protective equipment. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.

#### Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Store under an inert atmosphere.

#### **Specific End Uses**

### SECTION 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.

This product, as supplied, does not contain any hazardous materials with biological limits **Biological limit values** 

established by the region specific regulatory bodies.

No information available. **Derived No Effect Level (DNEL) Predicted No Effect Concentration** 

(PNEC)

No information available.

**Exposure controls** 

Ensure that eyewash stations and safety showers are close to the workstation location Ensure **Engineering Measures** 

adequate ventilation, especially in confined areas

Personal protective equipment

Safety glasses with side-shields **Eye Protection** 

**Hand Protection** Protective gloves

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure

**Respiratory Protection** 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.

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

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

No information available odor No information available. pН

**Boiling Point/Range** 221.8°C / 431.2°F @ 760 mmHg Melting Point/Range 80 - 82°C / 176 - 179.6°F



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### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Flash Point **Autoignition Temperature Molecular Formula Molecular Weight** 

87.9°C / 190.2°F No information available. C3H6N2S

### **SECTION 10. STABILITY AND REACTIVITY**

102.15

#### Reactivity

### **Chemical Stability**

Stable under recommended storage conditions. 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.

#### **Incompatible Materials**

Strong oxidizing agents, Strong acids, Strong bases.

#### **Hazardous Decomposition Products**

Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NOx). Sulfur oxides.

### **SECTION 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

No information available. Sensitization No information available **Mutagenic Effects** 



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### **SECTION 11. TOXICOLOGICAL INFORMATION**

Reproductive Effects
Developmental Effects
No information available.
No information available.
Skin Respiratory system Eyes

**Endocrine Disruptor Information** None known

### **SECTION 12. ECOLOGICAL INFORMATION**

**Toxicity** 

**Ecotoxicity effects**Contains no substances known to be hazardous to the environment or that are not degradable

in waste water treatment plants

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

### **SECTION 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 to local recyclers for disposal

**SECTION 14. TRANSPORT INFORMATION** 

IMDG/IMO Not regulated

ADR Not regulated



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### **SECTION 14. TRANSPORT INFORMATION**

IATA Not regulated

### **SECTION 15. REGULATORY INFORMATION**

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

#### **International Inventories**

Component	<b>EINECS</b>	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	CHINA	AICS	KECL
2-Thiazolamine, 4,5-dihydro-	217-224-1	-		Χ	-	Χ		i	i	-	-

### Legend

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

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

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**

### **SECTION 16. OTHER INFORMATION**

### Full text of R-phrases referred to under sections 2 and 3

R22 - Harmful if swallowed

R36/37/38 - Irritating to eyes, respiratory system and skin

Revision Date 05-Dec-2011 Revision Summary Not applicable

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



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### **SECTION 16. OTHER INFORMATION**

Disclaimer

The information provided on this Safety Data Sheet 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**