

# Aaron Chemistry GmbH

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 5.0 Revision Date 27.11.2012

Print Date 28.08.2017

GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

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

1.1 Product identifiers

Product name : (S)-(+)-2-Amino-1-butanol

Product Number : 52242

Brand : Aaron Chemistry GmbH

CAS-No. : 5856-62-2

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

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Aaron Chemistry GmbH

Am Fischweiher 41-43 D-82481 Mittenwald

Telephone : +49 8823 917521 Fax : +49 8823 917523

E-mail address : info@aaron-chemistry.de

1.4 Emergency telephone number

Emergency Phone # : +49 8823 917521

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Acute toxicity, Oral (Category 4) Skin corrosion (Category 1B)

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

Harmful if swallowed. Causes burns. Irritating to respiratory system.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 [CLP]

Pictogram

Signal word Danger

Hazard statement(s)

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

Precautionary statement(s)

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. Immediately call a POISON CENTER or doctor/ physician.

Supplemental Hazard none

Statements

P310

Aaron Chemistry - 52242 Page 1 of 6

#### According to European Directive 67/548/EEC as amended.

Hazard symbol(s)

\*\*\*

R-phrase(s)

R22 Harmful if swallowed. R34 Causes burns.

R37 Irritating to respiratory system.

S-phrase(s)

S26 In case of contact with eyes, rinse immediately with plenty of water and

seek medical advice.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S45 In case of accident or if you feel unwell, seek medical advice immediately

(show the label where possible).

### 2.3 Other hazards - none

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Formula :  $C_4H_{11}NO$ Molecular Weight : 89,14 g/mol

Component		Concentration
(+)-2-Amino-1-butanol		
CAS-No.	5856-62-2	-
EC-No.	227-475-9	

### 4. FIRST AID MEASURES

# 4.1 Description of first aid measures

## General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

### In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

# In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 4.2 Most important symptoms and effects, both acute and delayed

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea

# 4.3 Indication of any immediate medical attention and special treatment needed

no data available

### 5. FIREFIGHTING MEASURES

### 5.1 Extinguishing media

### Suitable extinguishing media

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

Aaron Chemistry - 52242 Page 2 of 6

#### 5.2 Special hazards arising from the substance or mixture

Carbon oxides, nitrogen oxides (NOx)

#### 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

#### 5.4 **Further information**

no data available

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

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

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

#### 6.2 **Environmental precautions**

Do not let product enter drains.

#### Methods and materials for containment and cleaning up 6.3

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

For disposal see section 13.

#### 7. **HANDLING AND STORAGE**

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Normal measures for preventive fire protection.

#### Conditions for safe storage, including any incompatibilities 7.2

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

#### 7.3 Specific end uses

no data available

#### **EXPOSURE CONTROLS/PERSONAL PROTECTION** 8.

#### 8.1 **Control parameters**

Components with workplace control parameters

#### 8.2 **Exposure controls**

### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

# Personal protective equipment

# Eye/face protection

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

# **Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Aaron Chemistry - 52242 Page 3 of 6

### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### PHYSICAL AND CHEMICAL PROPERTIES 9.

#### 9.1 Information on basic physical and chemical properties

a) Appearance Form: clear, viscous liquid

Colour: light yellow

b) Odour no data available no data available c) Odour Threshold d) no data available e) Melting point/freezing no data available

point

Initial boiling point and

172 - 174 °C - lit.

boiling range Flash point

95 °C - closed cup no data available

h) Evaporation rate Flammability (solid, gas) no data available

Upper/lower flammability or explosive limits no data available

k) Vapour pressure no data available Vapour density no data available m) Relative density 0,944 g/cm3 at 25 °C n) Water solubility no data available

o) Partition coefficient: noctanol/water

no data available

p) Autoignition temperature no data available

Decomposition temperature

no data available

r) Viscosity no data available s) Explosive properties no data available Oxidizing properties no data available

#### 9.2 Other safety information

no data available

#### STABILITY AND REACTIVITY 10.

#### 10.1 Reactivity

no data available

### 10.2 Chemical stability

no data available

### 10.3 Possibility of hazardous reactions

no data available

Page 4 of 6 Aaron Chemistry - 52242

### 10.4 Conditions to avoid

no data available

#### 10.5 Incompatible materials

Oxidizing agents, Do not store near acids., Aluminum, Copper, Brass

### 10.6 Hazardous decomposition products

Other decomposition products - no data available

### 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

### **Acute toxicity**

no data available

#### Skin corrosion/irritation

no data available

### Serious eye damage/eye irritation

no data available

# Respiratory or skin sensitization

no data available

### Germ cell mutagenicity

no data available

# Carcinogenicity

IARC:

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### Reproductive toxicity

no data available

### Specific target organ toxicity - single exposure

no data available

### Specific target organ toxicity - repeated exposure

no data available

# **Aspiration hazard**

no data available

# Potential health effects

**Inhalation** May be harmful if inhaled. Material is extremely destructive to the tissue of

the mucous membranes and upper respiratory tract.

**Ingestion** Harmful if swallowed. Causes burns.

**Skin** May be harmful if absorbed through skin. Causes skin burns.

**Eyes** Causes eye burns.

# Signs and Symptoms of Exposure

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea

# **Additional Information**

RTECS: Not available

# 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

no data available

### 12.2 Persistence and degradability

no data available

# 12.3 Bioaccumulative potential

no data available

Aaron Chemistry - 52242 Page 5 of 6

### 12.4 Mobility in soil

no data available

#### 12.5 Results of PBT and vPvB assessment

no data available

#### 12.6 Other adverse effects

no data available

### 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

#### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

#### Contaminated packaging

Dispose of as unused product.

### 14. TRANSPORT INFORMATION

#### 14.1 UN number

ADR/RID: 2735 IMDG: 2735 IATA: 2735

### 14.2 UN proper shipping name

ADR/RID: AMINES, LIQUID, CORROSIVE, N.O.S. ((+)-2-Amino-1-butanol) IMDG: AMINES, LIQUID, CORROSIVE, N.O.S. ((+)-2-Amino-1-butanol) Amines, liquid, corrosive, n.o.s. ((+)-2-Amino-1-butanol)

14.3 Transport hazard class(es)

ADR/RID: 8 IMDG: 8 IATA: 8

14.4 Packaging group

ADR/RID: III IMDG: III IATA: III

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

# 14.6 Special precautions for user

no data available

### 15. REGULATORY INFORMATION

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

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture no data available

# 15.2 Chemical Safety Assessment

no data available

### 16. OTHER INFORMATION

### **Further information**

Copyright 2012 Aaron Chemistry GmbH. License granted to make unlimited paper copies for internal use only.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Aaron Chemistry GmbH shall not be held

liable for any damage resulting from handling or from contact with the above product. See www.aaron-chemistry.de

Aaron Chemistry - 52242 Page 6 of 6