

## SAFETY DATA SHEET

### ANALYTICAL REFERENCE STANDARD

Date created: November 28, 2017

Date reviewed: N/A

## SECTION 1 - Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Product name: d,l-Amphetamine.hydrochloride (1.0 mg base/1 ml in methanol)  
Article number: AMP-95-HC-1LM

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

Reference material for analytical purposes only.

### 1.3 Details of the supplier of the safety data sheet

Lipomed AG	Tel: +41 (0) 61 702 02 00
Fabrikmattenweg 4	Fax: +41 (0) 61 702 02 20
CH-4144 Arlesheim	eMail: lipomed@lipomed.com

### 1.4 Emergency phone number

Tel: +41 (0) 44 321 34 33

## SECTION 2 - Hazard identification

### 2.1 Classification of the substance or mixture

#### Classification according to European Regulation (EC) 1272/2008 (EU-GHS/CLP)

Flammable liquids (Cat. 2)	H225: Highly flammable liquid and vapour.
Acute toxicity oral (Cat. 3)	H301: Toxic if swallowed.
Acute toxicity dermal (Cat. 3)	H311: Toxic in contact with skin.
Acute toxicity inhalation (Cat. 3)	H331: Toxic if inhaled.
Specific target organ toxicity (Cat. 1) Single exposure	H370: Causes damage to organs.

### 2.2 Label elements

#### Labelling according to European Regulation (EC) 1272/2008 (CLP)

##### Hazard Pictograms:



GHS02



GHS06



GHS08

Signal word: Danger.

##### Hazard Statements:

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.

H311 Toxic in contact with skin.  
H331 Toxic if inhaled.  
H370 Causes damage to organs.

Precautionary Statements:

Prevention

P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking.  
P260 Do not breathe dust/fume/gas/mist/vapors/spray.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P303+P361+P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P307+P311 If Exposed: Call a POISON CENTER or doctor/physician.  
P361 Remove/Take off immediately all contaminated clothing.  
P405 Store locked up.

## 2.3 Others hazards

None.

## SECTION 3 - Composition/information on ingredients

### 3.1 Substances

Not applicable.

### 3.2 Mixtures

d,l-Amphetamine.hydrochloride (1.0 mg base/1 ml in methanol)

Product Name	Methanol	d,l-Amphetamine.hydrochloride
Formula	CH4O	C9H13N.HCl
Molecular Weight	32.04	135.21+36.46
CAS Number	67-56-1	2706-50-5
EC Number	200-659-6	634-778-3
Percent	99.9	0.1

## SECTION 4 - First aid measures

### 4.1 Description of first aid measures

FOLLOWING ANY ROUTE OF EXPOSURE GET MEDICAL ATTENTION IMMEDIATELY.

SERIOUS TOXICITY IS PRECEDED BY VOMITING IN MOST CASES OF ORAL INGESTION.

**Inhalation:**

If inhaled, remove to fresh air. If breathing is labored or with coughing, give 100% supplemental oxygen. If not breathing, begin artificial respiration. DO NOT GIVE MOUTH-TO-MOUTH RESUSCITATION.

**Ingestion:**

If swallowed, get medical attention immediately; do not induce vomiting. Never give anything by mouth to an unconscious person. If not breathing, begin artificial respiration. Call a physician immediately.

**Skin Contact:**

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician immediately.

**Eye Contact:**

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Call a physician immediately.

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

The most important known symptoms and effects are described in section 11.

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

No data available.

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### **SECTION 5 - Firefighting measures**

#### **5.1 Extinguishing Media**

Suitable: Water spray; carbon dioxide; dry chemical powder; appropriate foam.

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

Specific Hazard: Flammable liquid, emit toxic fumes under fire conditions.

Explosion Hazard: Vapor may travel considerable distance to source of ignition and flash back.

#### **5.3 Advice for firefighters**

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

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### **SECTION 6 - Accidental release measures**

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

Wear protective equipment. Avoid breathing vapors. Shut off all sources of ignition. Keep unprotected persons away.

#### **6.2 Environmental precautions**

Dilute with plenty of water. Do not allow material to enter drains and water sources.

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

To clean up, cover with dry-lime, sand or soda ash. Place in covered containers using non-sparking tools and transport outdoors. Wash spill site with appropriate cleaning agent to removal residual traces of spilled material.

### 6.4 Reference to other sections

See section 13 for disposal.

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## SECTION 7 - Handling and storage

### 7.1 Precautions for safe handling

Do not breathe vapor. Do not get in eyes, on skin, on clothing. Avoid prolonged and repeated exposure. Ensure good ventilation at workplace. Do not smoke.

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

Keep tightly closed. Store in a cold and dry place. Protect from light. Keep away from heat, sparks and open flame. Refer to the manufacturer's certificate for storage conditions.

### 7.3 Specific end use(s)

No specific information.

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## SECTION 8 - Exposure controls/personal protection

### 8.1 Control parameters

Methanol: requires monitoring at working place.

**Exposure limits:** Methanol

REL: Short term value: 250 ppm  
Long term value: 200 ppm

TLV: Short term value: 250 ppm  
Long term value: 200 ppm

### 8.2 Exposure controls

#### **Skin Protection:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374.

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Dispose contaminated material according good laboratory practices.

#### **Eye/face Protection:**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### Personal Respirators (NIOSH Approved):

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose 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).

## SECTION 9 - Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Methanol:

Property	Value
<b>Physical state:</b>	
<b>Colour</b>	Colorless
<b>Form</b>	Liquid
<b>Odour</b>	No data available
<b>Melting point/freezing point</b>	- 98 °C/ No data available
<b>Boiling point or initial boiling point and boiling range</b>	64.6 °C (64 – 65°C) at 1.013 hPa (0.760 mmHg)
<b>Flammability</b>	No data available
<b>Lower and upper explosion limit</b>	Lower explosion limit: 6 % (V) Upper explosion limit: 36 % (V)
<b>Flash point</b>	11 °C
<b>Auto ignition temperature</b>	No data available
<b>Decomposition temperature</b>	No data available
<b>pH</b>	No data available
<b>Kinematic viscosity</b>	No data available
<b>Partition coefficient n-octanol/water</b>	No data available
<b>Vapor pressure</b>	13.02 kPa at 20°C
<b>Density and/or relative density</b>	0.791 g/cm <sup>3</sup> at 20°C
<b>Relative vapor density</b>	No data available

### 9.2 Other information

No data available.

## SECTION 10 - Stability and reactivity

### 10.1 Reactivity

No data available.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available.

### 10.4 Conditions to avoid

Sources of ignition: Heat, flames.

### 10.5 Incompatible materials

Strong acids, strong oxidizing agents, alkali metals, strong reducing agents.

### 10.6 Hazardous decomposition products:

Possible formation of carbon oxides during heat and in case of fire.

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## SECTION 11 - Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity (methanol):

oral; rat: LD50: 5628 mg/kg

inhalation; rat: LC50: 64000 ppm/4h

intraperitoneal; rat: LD50: 7529 mg/kg

oral; mouse: LD50: 7300 mg/kg

intraperitoneal; mouse: LD50: 10765 mg/kg

#### Skin corrosion/irritation

May cause skin irritation.

#### Serious eye damage/irritation

May cause eye damage/irritation.

#### Respiration or skin sensitization

May cause respiration or skin sensitization.

#### 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 (STOT) – single exposure

No data available.

#### Specific target organ toxicity (STOT) – repeated exposure

No data available.

#### Aspiration hazard

No data available.

#### Additional information

RTECS (methanol): PC1400000

Formulation not fully tested yet.

Methanol may be fatal or cause blindness is swallowed.

Effects due to Ingestion may include: Headache, vomiting, Nausea, dizziness.

## SECTION 12 - Ecological information

### 12.1 Toxicity

#### Methanol

Fish: LC50: 24000 mg/l/96h.

### 12.2 Persistence and degradability

No data available.

### 12.3 Bioaccumulative potential

No data available.

### 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT and vPvB assessment

Not applicable.

### 12.6 Other adverse effects

No data available.

## SECTION 13 - Disposal considerations

### 13.1 Waste treatment methods

Contact a licensed professional waste disposal service to dispose of this material. Burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations.

## SECTION 14 – Transport information

### 14.1 UN number

RID/ADR: 1230

IMDG: 1230

IATA: 1230

### 14.2 UN proper shipping name

RID/ADR: Methanol (Mixture)

IMDG: Methanol (Mixture)

IATA: Methanol (Mixture)

### 14.3 Transport hazard class(es)

RID/ADR: 3

IMDG: 3

IATA: 3

Sub. Risk: 6.1

Sub. Risk: 6.1

Sub. Risk: 6.1

### 14.4 Packaging group

RID/ADR: II

IMDG: II

IATA: II

### 14.5 Environmental hazards

RID/ADR: No

IMDG: No marine pollutant

IATA: No

#### 14.6 Special precautions for user

RID/ADR: Small quantities  
exempted

IMDG: Small quantities  
exempted

IATA: Small quantities  
exempted

#### 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

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### SECTION 15 - Regulatory information

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

This SDS complies with Regulation: No.: 1907/2006.

#### 15.2 Chemical safety assessment

Chemical Safety Assessment has not been carried out.

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### SECTION 16 - Other information

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