# SAFETY DATA SHEET

Version 5.3 Revision Date 05/17/2017 Print Date 06/16/2017

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : (+)-Methamphetamine hydrochloride

**CANADA** 

Product Number : M8750 Brand : Sigma

Product Use : For laboratory research purposes.

Supplier : Sigma-Aldrich Canada Co. Manufactur : Sigma-Aldrich Corporation

2149 Winston Park Drive er 3050 Spruce St.

OAKVILLE ON L6H 6J8 St. Louis, Missouri 63103

**USA** 

Telephone : +1 9058299500 Fax : +1 9058299292

Emergency Phone # (For

**Preparation Information** 

both supplier and manufacturer)

ooth supplier and

Product Safety - Americas Region

: +1-703-527-3887 (CHEMTREC)

Sigma-Aldrich Corporation

1-800-521-8956

### 2. HAZARDS IDENTIFICATION

### **Emergency Overview**

#### **Target Organs**

Central nervous system, Heart

### **WHMIS Classification**

D1A Very Toxic Material Causing Immediate and Highly toxic by ingestion

Serious Toxic Effects

Specific target organ toxicity - single exposure

#### **GHS Classification**

Acute toxicity, Oral (Category 2)

Specific target organ toxicity - single exposure (Category 3), Central nervous system

### GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)

H300 Fatal if swallowed.

H336 May cause drowsiness or dizziness.

Precautionary statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area.

P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a

POISON CENTER/doctor if you feel unwell.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

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P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant.

**HMIS Classification** 

Health hazard: 4
Chronic Health Hazard: \*
Flammability: 0
Physical hazards: 0

#### **Potential Health Effects**

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation. Vapours may cause

drowsiness and dizziness.

**Skin** May be harmful if absorbed through skin. May cause skin irritation.

**Eyes** May cause eye irritation. **Ingestion** May be fatal if swallowed.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : *d*-Desoxyephedrine

d-N,α-Dimethylphenethylamine

Methylamphetamine

Formula :  $C_{10}H_{15}N \cdot HCI$ Molecular weight : 185.69 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
Methamphetamine hydrochloride			
51-57-0	200-106-9	-	<=100%

### 4. FIRST AID MEASURES

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

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

#### In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

## In case of eye contact

Flush eyes with water as a precaution.

### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### 5. FIREFIGHTING MEASURES

#### Suitable extinguishing media

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

#### Special protective equipment for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

## **Hazardous combustion products**

### Explosion data - sensitivity to mechanical impact

No data available

# Explosion data - sensitivity to static discharge

No data available

### 6. ACCIDENTAL RELEASE MEASURES

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### Personal precautions

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

#### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

# Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### 7. HANDLING AND STORAGE

### Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

#### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Personal protective equipment

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) 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).

## **Hand 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.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

#### Eye 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).

# Skin and 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.

## Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

### Specific engineering controls

Use mechanical exhaust or laboratory fumehood to avoid exposure.

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#### 9. PHYSICAL AND CHEMICAL PROPERTIES

## **Appearance**

Form solid Colour white

### Safety data

pH No data available

Melting Point/range: 172 - 174 °C (342 - 345 °F)

point/freezing point

Boiling point No data available
Flash point No data available
Ignition temperature No data available
Auto-ignition No data available

temperature

Lower explosion limit No data available
Upper explosion limit No data available
Vapour pressure No data available
Density No data available
Water solubility No data available
Partition coefficient: No data available
n-octanol/water

Relative vapour

density

No data available

Odour No data available
Odour Threshold No data available
Evaporation rate No data available

## 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

No data available

# **Conditions to avoid**

No data available

### Materials to avoid

Strong oxidizing agents

#### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride gas

Other decomposition products - No data available

## 11. TOXICOLOGICAL INFORMATION

## **Acute toxicity**

#### Oral LD50

No data available

# Inhalation LC50

No data available

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#### **Dermal LD50**

No data available

### Other information on acute toxicity

No data available

#### Skin corrosion/irritation

No data available

### Serious eye damage/eye irritation

No data available

### Respiratory or skin sensitisation

No data available

## Germ cell mutagenicity

No data available

### Carcinogenicity

Carcinogenicity - Rat - Subcutaneous

Tumorigenic:Neoplastic by RTECS criteria. Tumorigenic Effects: Uterine tumors.

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

Reproductive toxicity - Rat - Subcutaneous

Maternal Effects: Other effects. Specific Developmental Abnormalities: Endocrine system. Effects on Newborn:

Biochemical and metabolic.

#### No data available

# **Teratogenicity**

Developmental Toxicity - Mouse - Intraperitoneal

Specific Developmental Abnormalities: Central nervous system. Specific Developmental Abnormalities: Musculoskeletal system.

Scientific publications report amphetamines increase the incidence of congenital anomalies in some animal studies, but effects have been inconsistent; moreover human studies do not suggest an increase in the risk of congenital anomalies, but have shown in some cases a decrease in birth weight.

No data available

### Specific target organ toxicity - single exposure (Globally Harmonized System)

May cause drowsiness or dizziness.

#### Specific target organ toxicity - repeated exposure (Globally Harmonized System)

No data available

#### **Aspiration hazard**

No data available

### Potential health effects

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation. Vapours may cause

drowsiness and dizziness.

**Ingestion** May be fatal if swallowed.

**Skin** May be harmful if absorbed through skin. May cause skin irritation.

**Eyes** May cause eye irritation.

#### Signs and Symptoms of Exposure

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CNS stimulation., Nausea, Dizziness, Headache, Anorexia., Tremors, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### Synergistic effects

No data available

# Additional Information RTECS: SH5455000

# 12. ECOLOGICAL INFORMATION

#### **Toxicity**

No data available

# Persistence and degradability

No data available

#### Bioaccumulative potential

No data available

## Mobility in soil

No data available

#### PBT and vPvB assessment

No data available

#### Other adverse effects

No data available

### 13. DISPOSAL CONSIDERATIONS

#### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

#### Contaminated packaging

Dispose of as unused product.

## 14. TRANSPORT INFORMATION

DOT (US)

UN number: 2811 Class: 6.1 Packing group: II

Proper shipping name: Toxic solids, organic, n.o.s. (Methamphetamine hydrochloride)

Reportable Quantity (RQ): Marine pollutant: No

Poison Inhalation Hazard: No

**IMDG** 

UN number: 2811 Class: 6.1 Packing group: II EMS-No: F-A, S-A Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Methamphetamine hydrochloride)

Marine pollutant: No

**IATA** 

UN number: 2811 Class: 6.1 Packing group: II

Proper shipping name: Toxic solid, organic, n.o.s. (Methamphetamine hydrochloride)

#### 15. REGULATORY INFORMATION

#### WHMIS Classification

D1A Very Toxic Material Causing Immediate and Highly toxic by ingestion

Serious Toxic Effects

Specific target organ toxicity - single exposure

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This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

### **16. OTHER INFORMATION**

#### **Further information**

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