

# **SAFETY DATA SHEET**

Version 6.6 Revision Date 03/04/2024 Print Date 05/11/2024

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

#### **1.1 Product identifiers**

	Product name	:	Cyclohexanemethylamine
	Product Number Brand CAS-No.	-	101842 Aldrich 3218-02-8
1.2	Relevant identified uses of the substance or mixture and uses advised again		of the substance or mixture and uses advised against
	Identified uses	:	Laboratory chemicals, Synthesis of substances
1.3	Details of the supplier of the safety data sheet		
	Company	:	Sigma-Aldrich Inc. 3050 SPRUCE ST ST. LOUIS MO 63103 UNITED STATES

Telephone	:	+1 314 771-5765
Fax	:	+1 800 325-5052

#### **1.4 Emergency telephone**

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

# GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 3), H226 Skin corrosion (Category 1B), H314 Serious eye damage (Category 1), H318 Short-term (acute) aquatic hazard (Category 3), H402 Long-term (chronic) aquatic hazard (Category 3), H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### 2.2 GHS Label elements, including precautionary statements

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Pictogram	
Signal Word	Danger
Hazard Statements H226 H314 H412	Flammable liquid and vapor. Causes severe skin burns and eye damage. Harmful to aquatic life with long lasting effects.
	Harmun to aquatic me with long lasting effects.
Precautionary Statements P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241 P242	Use explosion-proof electrical/ventilating/lighting/equipment.
P243	Use only non-sparking tools. Take precautionary measures against static discharge.
P264	Wash skin thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338 +	IF IN EYES: Rinse cautiously with water for several minutes.
P310	Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P363	Wash contaminated clothing before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

# 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

# **SECTION 3:** Composition/information on ingredients

3.1	<b>Substances</b> Synonyms	:	: (Aminomethyl)cyclohexane Hexahydrobenzylamine		
	Formula Molecular weight CAS-No. EC-No.		C <sub>7</sub> H <sub>15</sub> N 113.20 g/mol 3218-02-8 221-741-8		
	Component			Classification	Concentration

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Cyclohexanemethylamine		
	Flam. Liq. 3; Skin Corr. 1B; Eye Dam. 1; Aquatic Acute 3; Aquatic Chronic 3; H226, H314, H318, H402, H412	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

# **SECTION 4: First aid measures**

# 4.1 Description of first-aid measures

# General advice

First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

# If inhaled

After inhalation: fresh air. Call in physician.

# In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.

# In case of eye contact

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

## If swallowed

After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralise.

- **4.2 Most important symptoms and effects, both acute and delayed** The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
- **4.3 Indication of any immediate medical attention and special treatment needed** No data available

# **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

## **Suitable extinguishing media** Foam Carbon dioxide (CO2) Dry powder

# **Unsuitable extinguishing media** For this substance/mixture no limitations of extinguishing agents are given.

# 5.2 Special hazards arising from the substance or mixture

Carbon oxides Nitrogen oxides (NOx) Combustible. Aldrich - 101842

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Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air at elevated temperatures. Development of hazardous combustion gases or vapours possible in the event of fire.

# 5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

# 5.4 Further information

Remove container from danger zone and cool with water. Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

# **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

**6.2 Environmental precautions** Do not let product enter drains. Risk of explosion.

# 6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb $\mathbb{R}$ ). Dispose of properly. Clean up affected area.

**6.4** Reference to other sections For disposal see section 13.

# SECTION 7: Handling and storage

## 7.1 Precautions for safe handling

## Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

# **Hygiene measures**

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2.

## 7.2 Conditions for safe storage, including any incompatibilities

## Storage conditions

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition.

## Storage class

Storage class (TRGS 510): 3: Flammable liquids

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# 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

#### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

# Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

#### 8.2 Exposure controls

## Appropriate engineering controls

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

#### **Personal protective equipment**

#### Eye/face protection

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

#### Skin protection

required

# **Body Protection**

Flame retardant antistatic protective clothing.

## **Respiratory protection**

Recommended Filter type: Filter type ABEK The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

required when vapours/aerosols are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

## **Control of environmental exposure**

Do not let product enter drains. Risk of explosion.

#### **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

- a) Appearance Form: liquid
- b) Odor No data available
- c) Odor Threshold No data available
- d) pH No data available

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e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	159 - 161 °C 318 - 322 °F - lit.
g)	Flash point	48 °C (118 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	No data available
I)	Vapor density	No data available
m)	Density	0.87 g/cm3 at 25 °C (77 °F) - lit.
	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Autoignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available
Oth	ver safety informatio	n

9.2 Other safety information No data available

# SECTION 10: Stability and reactivity

#### **10.1 Reactivity**

Vapor/air-mixtures are explosive at intense warming.

#### **10.2 Chemical stability**

The product is chemically stable under standard ambient conditions (room temperature) .

## **10.3 Possibility of hazardous reactions** No data available

#### **10.4** Conditions to avoid Heating.

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# **10.5** Incompatible materials

acids, Acid chlorides, Acid anhydrides, Strong oxidizing agents, Carbon dioxide (CO2)

#### **10.6 Hazardous decomposition products** In the event of fire: see section 5

#### **SECTION 11:** Toxicological information

## 11.1 Information on toxicological effects

#### Acute toxicity

Oral: No data available Inhalation: No data available Dermal: No data available No data available

#### Skin corrosion/irritation

Remarks: No data available

**Serious eye damage/eye irritation** Remarks: No data available

#### **Respiratory or skin sensitization** No data available

Germ cell mutagenicity

No data available

#### Carcinogenicity

- IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

#### **Reproductive toxicity**

No data available 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

## **11.2 Additional Information**

#### RTECS: GV6128000

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

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# SECTION 12: Ecological information

## 12.1 Toxicity

Toxicity to daphnia EC50 - Daphnia magna (Water flea) - 24.2 mg/l - 48 h and other aquatic invertebrates

- 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 PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

- **12.6 Endocrine disrupting properties** No data available
- **12.7 Other adverse effects**

No data available

# **SECTION 13: Disposal considerations**

## **13.1** Waste treatment methods

## Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

# **SECTION 14: Transport information**

## DOT (US)

UN number: 2734 Class: 8 (3) Packing group: II Proper shipping name: Amines, liquid, corrosive, flammable, n.o.s. (Cyclohexanemethylamine) Reportable Quantity (RQ): Poison Inhalation Hazard: No

## IMDG

UN number: 2734 Class: 8 (3)

Packing group: II

EMS-No: F-E, S-C

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Proper shipping name: AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S. (Cyclohexanemethylamine)

#### ΙΑΤΑ

UN number: 2734 Class: 8 (3) Packing group: II Proper shipping name: Amines, liquid, corrosive, flammable, n.o.s. (Cyclohexanemethylamine)

# SECTION 15: Regulatory information

#### SARA 302 Components

This material does not contain any components with a section 302 EHS TPQ.

## SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard

#### **Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

## **SECTION 16: Other information**

#### **Further information**

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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