

# SAFETY DATA SHEET

Version 6.4 Revision Date 11/25/2023 Print Date 02/10/2024

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

#### 1.1 Product identifiers

Product name : Acetone azine

Product Number : 273155 Brand : Aldrich CAS-No. : 627-70-3

## 1.2 Relevant identified uses 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 Acute toxicity, Oral (Category 4), H302 Acute toxicity, Dermal (Category 3), H311

Skin irritation (Category 2), H315 Eye irritation (Category 2A), H319 Carcinogenicity (Category 1B), H350

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

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

# 2.2 GHS Label elements, including precautionary statements

Aldrich - 273155

Page 1 of 10



Pictogram		
Signal Word	Danger	
Hazard Statements H226 H302 H311 H315 H319 H335	Flammable liquid and vapor. Harmful if swallowed. Toxic in contact with skin. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause cancer.	
Precautionary Statements		
P201 P202	Obtain special instructions before use.  Do not handle until all safety precautions have been read and understood.	
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	Use explosion-proof electrical/ ventilating/ lighting/ equipment.	
P242	Use only non-sparking tools.	
P243	Take precautionary measures against static discharge.	
P261	Avoid breathing mist or vapors.	
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.	
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.	
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.	
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.	
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.	
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P308 + P313	IF exposed or concerned: Get medical advice/ attention.	
P332 + P313	If skin irritation occurs: Get medical advice/ attention.	
P337 + P313	If eye irritation persists: Get medical advice/ attention.	
P362	Take off contaminated clothing and wash before reuse.	
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.	
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.	
P403 + P235	Store in a well-ventilated place. Keep cool.	
P405	Store locked up.	
P501	Dispose of contents/ container to an approved waste disposal	

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

plant.

Aldrich - 273155 Page 2 of 10



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

#### 3.1 Substances

Component	Classification	Concentration	
Acetone azine			
	Flam. Liq. 3; Acute Tox. 4; Acute Tox. 3; Skin Irrit. 2; Eye Irrit. 2A; Carc. 1B; STOT SE 3; H226, H302, H311, H315, H319, H350, H335		

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. Call in ophthalmologist. Remove contact lenses.

# If swallowed

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

## 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

Aldrich - 273155

Page 3 of 10



#### **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.

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 carefully with liquid-absorbent material (e.g. Chemizorb®). 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 safe handling

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

Aldrich - 273155

Page 4 of 10



# 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. Keep locked up or in an area accessible only to qualified or authorized persons.

Air and moisture sensitive.

#### Storage class

Storage class (TRGS 510): 3: Flammable liquids

## 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). Safety glasses

# **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.

Aldrich - 273155

Page 5 of 10



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**

## .1 Information on basic physical and chemical properties

a) Appearance Form: liquid

Color: light yellow

b) Odorc) Odor Thresholdd) pHNo data availableNo data available

e) Melting point/range: -125 °C (-193 °F)

point/freezing point

) Initial boiling point 133 °C 271 °F at 1,017 hPa and boiling range

g) Flash point 31 °C (88 °F) - closed cup

h) Evaporation rate No data availablei) Flammability (solid, No data available

gas)
j) Upper/lower

explosive limits

Upper/lower No data available flammability or

k) Vapor pressure No data availablel) Vapor density No data available

m) Density 0.842 g/cm3

Relative density
No data available
No data available
Partition coefficient:
No data available

n-octanol/water

p) Autoignition No data available

temperature

q) Decomposition No data available

temperature

r) Viscosity No data available

s) Explosive properties Not classified as explosive.

t) Oxidizing properties none

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## 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.

## 10.5 Incompatible materials

Water, Strong oxidizing agents, acids

## 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

Acute toxicity estimate Oral - 431.63 mg/kg

(Calculation method)

Inhalation: No data available

Dermal: No data available

Acute toxicity estimate Dermal - 665.31 mg/kg

(Calculation method) 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

Aldrich - 273155

Page 7 of 10



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

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## **SECTION 12: Ecological information**

## 12.1 Toxicity

No data available

# 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

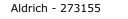
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

## 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: 1992 Class: 3 (6.1) Packing group: III

Proper shipping name: Flammable liquids, toxic, n.o.s. (Acetone azine)

Reportable Quantity (RQ):

Poison Inhalation Hazard: No

## **IMDG**

UN number: 1992 Class: 3 (6.1) Packing group: III EMS-No: F-E, S-D

Proper shipping name: FLAMMABLE LIQUID, TOXIC, N.O.S. (Acetone azine)

#### **IATA**

UN number: 1992 Class: 3 (6.1) Packing group: III

Proper shipping name: Flammable liquid, toxic, n.o.s. (Acetone azine)

## **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

Aldrich - 273155

Page 9 of 10



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