

Material Safety Data Sheet

Date Printed: 04/14/2004 Date Updated: 03/06/2004 Version 1.30

Section 1 - Product and Company Information

Product Name Product Number

Brand

Phenylacetaldehyde, 90+%

107395

Aldrich Chemical

Company Street Address Sigma-Aldrich 3050 Spruce Street

City, State, Zip, Country Technical Phone:

SAINT LOUIS, MO 63103 US 314 771 5765 800 325 5052

55 Emergency Phone:

414 273 3850 Ext. 5996

Section 2 - Composition/Information on Ingredient

Substance Name

CAS#

SARA 313

EC no

Annex I Index Number

PHENYLACETALDEHYDE

IALULITIUL

122-78-1

204-574-5

5

Formula

C8H8C

Synonyms

Acetaldehyde, phenyl-, Hyacinthin, Phenylacetaldehyde, Phenylacetic aldehyde, Phenylethanal,

alpha-Tolualdehyde, alpha-Toluic aldehyde

Section 3 - Hazards Identification

Emergency Overview

Harmful.

Harmful if swallowed. Irritating to eyes, respiratory system and skin.

Combustible.

HMIS Rating Health: 2

Flammability: 2

Reactivity: 0

NFPA Rating

Health: 2

Flammability: 2

Reactivity: 0

For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

Oral Exposure

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Inhalation Exposure

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Dermal Exposure

In case of contact, immediately wash skin with soap and copious amounts of water.

Eye Exposure

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

Section 5 - Fire Fighting Measures

Flash Point:

188.6 °F

87 °C

Autoignition Temp:

N/A

Extinguishing Media

uitable

Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

Firefighting

Protective Equipment

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

Specific Hazard(s)

Combustible liquid. Emits toxic fumes under fire conditions.

Section 6 - Accidental Release Measures

Procedure(s) of Personal Precaution(s)

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

Methods for Cleaning Up

Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

Handling

User Exposure

Do not breathe vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Storage

Suitable

Keep tightly closed. Keep away from heat and open flame. Store at 2-8°C

Special Requirements

Store under inert gas.

Section 8 - Exposure Controls / PPE

Engineering Controls

Mechanical exhaust required. Safety shower and eye bath.

Personal Protective Equipment

Respiratory

Government approved respirator.

Hand

Compatible chemical-resistant gloves.

Eye

Chemical safety goggles.

Aldrich Chemical - 107395

Page 2

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General Hygiene Measures

Wash thoroughly after handling.

Section 9 - Physical/Chemical Properties

Appearance

Color

Form

760 mmHg

Slightly yellow-green

Clear liquid

tly yellow-green Clear III

Molecular Weight:

120.15 AMU

<u>Value</u> **Property** N/A BP/BP Range 195 °C MP/MP Range -10 °C Freezing Point N/A Vapor Pressure N/A Vapor Density N/A Saturated Vapor Conc. N/A SG/Density 1.075 a/cm3 Bulk Density Odor Threshold N/A N/A Volatile% N/A **VOC Content** N/A Water Content N/A Solvent Content N/A **Evaporation Rate** N/A Viscosity N/A Partition Coefficient N/A Decomposition Temp. N/A Flash Point °F 188.6 °F Flash Point °C 87 °C **Explosion Limits** N/A Flammability N/A **Autoignition Temp** N/A

At Temperature or Pressure

Method: closed cup

N/A = not available

Refractive Index

Section 10 - Stability and Reactivity

1.518

N/A

Stability

Solubility

Stable Stable.

Stable.

Materials to Avoid

Strong oxidizing agents, Strong bases.

Hazardous Decomposition Products
Hazardous Decomposition Products

Carbon monoxide, Carbon dioxide.

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Page 3

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Hazardous Polymerization Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information

Route of Exposure

Skin Contact

Causes skin irritation.

Skin Absorption

May be harmful if absorbed through the skin.

Eye Contact

Causes eye irritation.

Inhalation

Material is irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

Ingestion

Harmful if swallowed.

Signs and Symptoms of Exposure

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

RTECS Number: CY1420000

Toxicity Data

Oral - Rat: 1550 mg/kg (LD50)

Oral - Mouse: 3890 mg/kg (LD50)

Inhalation - Mouse: 2,000 mg/m3 (LC50)

Skin - Rabbit: > 5000 mg/kg (LD50)

Oral - Guinea pig: 3890 mg/kg (LD50)

Irritation Data

Skin - Human: 2 % 48H

Section 12 - Ecological Information

No data available.

Section 14 - Transport Information

DOT

Proper Shipping Name: Combustible liquid, n.o.s.

UN#: 1993

Class: COMBUSTIBLE LIQUID Packing Group: Packing Group III

Hazard Label: None

PIH: Not PIH

IATA

Non-Hazardous for Air Transport: Non-hazardous for air transport.

Aldrich Chemical - 107395

Page 4

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Section 15 - Regulatory Information

EU Additional Classification

Symbol of Danger: Xn Indication of Danger

Harmful.

Risk Statements R: 22 36/37/38

Harmful if swallowed. Irritating to eyes, respiratory system and skin.

Safety Statements S: 26 36

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

US Classification and Label Text

Indication of Danger

Harmful.

Risk Statements

Harmful if swallowed. Irritating to eyes, respiratory system and skin.

Safety Statements

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

US Statements

Combustible.

United States Regulatory Information

SARA Listed: No

TSCA Inventory Item: Yes

Canada Regulatory Information WHMIS Classification

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information

required by the CPR.

DSL: Yes NDSL: No

Section 16 - Other Information

Disclaimer

For R&D use only. Not for drug, household or other uses.

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. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2004 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

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