

Material Safety Data Sheet

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Section 1 - Product and Company Information

Product Name Product Number

Brand

PSEUDOCUMENE, STANDARD FOR GC

82540

Fluka Chemical

Company Address City, State, Zip, Country Technical Phone:

Sigma-Aldrich 3050 Spruce Street

SAINT LOUIS, MO 63103 US 800-325-5832

800-325-5052

Emergency Phone:

314-776-6555

EC no

202-436-9

Section 2 - Composition/Information on Ingredient

Substance Name

CAS# 95-63-6 **SARA 313**

Annex I Index Number 601-043-00-3

1,2,4-TRIMETHYLBENZENE

Formula Synonyms

Asymmetrical trimethylbenzene, Benzene, 1,2,5trimethyl-, psi-Cumene, Pseudocumene,

Pseudocumol, as-Trimethylbenzene

Section 3 - Hazards Identification

Emergency Overview

Combustible (USA) Flammable (EU). Harmful. Dangerous for the environment.

Flammable. Irritating to eyes, respiratory system and skin. Toxic to aquatic organisms, may cause longterm adverse effects in the aquatic environment.

Target organ(s): Central nervous system.

HMIS Rating

Health: 2*

Flammability: 2

Reactivity: 0

NFPA Rating

Health: 2

Flammability: 2

Reactivity: 0

*additional chronic hazards present

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.

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

Flammable Hazards

Explosion Hazards

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

Container explosion may occur under fire conditions.

Flash Point:

118.4 °F

48 °C Upper: 6.4 %

Explosion Limits: Lower: 0.9 %

515 °C

Flammability:

Yes

Autoignition Temp: Extinguishing Media

Suitable

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be effective. Cool all affected containers with flooding quantities of water.

Firefighting

Protective Equipment

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

Specific Hazard(s)

Flammable liquid. Emils toxic fumes under fire conditions.

Section 6 - Accidental Release Measures

Procedure to be Followed in Case of Leak or Spill

Evacuate area Shut off all sources of ignition.

Procedure(s) of Personal Precaution(s)

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

Methods for Cleaning Up

Cover with dry-lime, sand, or soda ash. Place in covered containers using nonsparking tools and transport outdoors. Ventilate area and wash spill site aftermaterial pickup is complete.

Section 7 - Handling and Storage

Handling

User Exposure

Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Storage

Suitable

Keep container closed. Keep away from heat, sparks, and open flame.

Section 8 - Exposure Controls / PPE

Engineering Controls

Safety shower and eye bath Use nonsparking tools Mechanical exhaust required

Personal Protective Equipment

Respiratory

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Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a full accrespirator with multi-purpose

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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.

44.4 °C

Compatible chemical-resistant gloves

Eye

Chemical safety goggles

General Hygiene Measures

Wash thoroughly after handling Wash contaminated clothing before reuse.

Exposure Limits

Country Poland Poland Poland

Method: closed cup

Method: closed cup

Section 9 - Physical/Chemical Properties

Appearance

Physical State Clear liquid

Color Colorless

Molecular Weight

120.2 AMU

pΗ

N/A 168 - 169 °C

N/A

BP/BP Range MP/MP Range -43.7 °C

Freezing Point Vapor Pressure

7 mmHg Vapor Density 4.2 g/l

Saturated Vapor Conc. N/A 0.876 g/cm3 SG/Density N/A

Bulk Density Odor Threshold 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 Flash Point °C

Explosion Limits

118.4 °F 48 °C Lower. 0.9 %

Upper. 6.4 % Flammability N/A Autoignition Temp 515 °C Refractive Index 1.505

Type NDS NDSCh NDSP

Value 100 mg/m3 170 mg/m3

Solubility

Solubility in Water: Insoluble

N/A = not available

Section 10 - Stability and Reactivity

Stable

Stable

Materials to Avoid Strong oxidizing agents

Hazardous Decomposition Products Hazardous Decomposition Products

Carbon monoxide, Carbon dioxide

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.

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

Ingestion

May be harmful if swallowed.

Target Organ(s) or System(s)

Central nervous system

Signs and Symptoms of Exposure

Prolonged exposure can cause: Narcotic effect. Bronchitis. Headache, nausea, drowsiness, and fatigue. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

RTECS Number: DC3325000

Toxicity Data

Oral - Rat: 5000 mg/kg (LD50)

Inhalation - Rat: 18,000 mg/m3(LC50)

Chronic Exposure - Mutagen

Species Mouse

<u>Dose</u> 900 MG/KG <u>Route</u>

Intraperitoneal

Mutation test

Sister chromatid exchange

Section 12 - Ecological Information

No data available

Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation

Contact a licensed professional waste disposal service to dispose of this material

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Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as thirmaterial is highly flammable.

Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

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

Class: 3

Packing Group: Packing Group III Hazard Label: Flammable liquid

PIH: Not PIH

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

IATA UN Number: 3295 Hazard Class: 3 Packing Group: III

Section 15 - Regulatory Information

EU Directives Classification

Symbol of Danger: Xn N

Indication of Danger

Harmful Dangerous for the environment.

Risk Statements

R: 10 20 36/37/38 51/53

Flammable. Harmful by inhalation Irritating to eyes, respiratory system and skin Toxic to aquatic organisms, may cause longterm

adverse effects in the aqualic environment.

Safety Statements

In case of contact with eyes, rinse immediately with plenty of water and seek medical adviceAvoid release to the environment.

Refer to special instructions/safety data sheets.

US Classification and Label Text

Indication of Danger

Combustible (USA) Flammable (EU) Harmful Dangerous for the environment.

Risk Statements

Flammable. Irritating to eyes, respiratory system and skin. Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

Safety Statements

In case of contact with eyes, rinse immediately with plenty of water and seek medical adviz. Avoid release to the environment, Refer to special instructions/safety data sheets.

US Statements

Target organ(s): Central nervous system.

United States Regulatory Information

SARA Listed: Yes Deminimis: 1 %

Notes: This product is subject to SARA section 313 reporting requirements.

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

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 stateof 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. SigmAldrich Inc., shall not be held liable for any damage resulting from handling or forn contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright2007 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

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