

Material Safety Data Sheet

Date Printed: 04/05/2007 Date Updated: 02/01/2006 Version 1.30

Section 1 - Product and Company Information

Product Name **Product Number**

252964 Aldrich Chemical

Brand

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

Sigma-Aldrich 3050 Spruce Street

Diphenylphosphine, 98%

SAINT LOUIS, MO 63103 US 800-325-5832

800-325-5052

Emergency Phone:

314-776-6555

212-591-4

Section 2 - Composition/Information on Ingredient

Substance Name

CAS# 829-85-6 **SARA 313**

Annex I Index EC no Number

DIPHENYLPHOSPHINE

Formula Synonyms C12H11P

Section 3 - Hazards Identification

Emergency Overview

Pyrophoric (USA) Highly Flammable (EU). Corrosive. Spontaneously flammable in air. Causes burns

HMIS Rating

Health: 0

Flammability: 4

Reactivity: 4

NFPA Rating

Health: 0

Flammability: 4

Reactivity: 4

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

Section 4 - First Aid Measures

Immediate Treatment - Work Site

In case of contact, immediately flush eyes or skin with copious amounts of water for at least 15 minutes while removing contaminated clothing and shoes.

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.

Section 5 - Fire Fighting Measures

Conditions of Flammability

Calches fire if exposed to air.

Flash Point:

230 °F

110 °C

Autoignition Temp:

Extinguishing Media

Suitable

Dry chemical powder.

Firefighting

Protective Equipment

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

Specific Hazard(s)

Emits loxic fumes under fire conditions.

Section 6 - Accidental Release Measures

Procedure to be Followed in Case of Leak or Spill

Evacuate area.

Procedure(s) of Personal Precaution(s)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

Methods for Cleaning Up

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

Section 7 - Handling and Storage

Handling

User Exposure

Avoid contact and inhalation. Avoid prolonged or repeated exposure.

Storage

Suitable

Keep tightly closed. Handle and store under argon.

Unsuitable

Do not expose to air and fire,

Special Requirements

Light sensitive. Air sensitive.

Section 8 - Exposure Controls / PPE

Engineering Controls

Safety shower and eye bath. Use only in a chemical fume hood, Use nonsparking tools.

Personal Protective Equipment

Other

Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing. Faceshield (8-inch minimum)

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General Hyglene Measures

Wash thoroughly after handling. Discard contaminated clothing and shoes.

Section 9 - Physical/Chemical Properties

Appearance

Physical State

Color

Clear liquid

Faintly yellow

Molecular Weight:

186.2 AMU

Property

Value

At Temperature or Pressure

рΗ BP/BP Range

N/A 280 °C N/A

760 mmHg

MP/MP Range Freezing Point

N/A Vapor Pressure 2 mmHg

110 °C

Vapor Density SG/Density

Saturated Vapor Conc. N/A 1.07 g/cm3 N/A

Bulk Density Odor Threshold N/A Volatile% NI/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. Flash Point °F Flash Point °C

N/A 230 °F 110 °C

N/A

Method: closed cup Method: closed cup

Explosion Limits

Flammability N/A Autoignition Temp N/A Refractive Index 1.625 Solubility N/A

N/A = not available

Section 10 - Stability and Reactivity

Stabillty

Conditions of Instability

May decompose on exposure to air, May decompose on exposure to light,

Materials to Avoid

Strong oxidizing agents.

Hazardous Decomposition Products

Hazardous Decomposition Products

Carbon monoxide, Carbon dioxide, Thermal decomposition may produce toxic fumes of phosphorus oxides and/or phosphine.

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Hazardous Polymerization

Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information

Route of Exposure

Skin Contact

May cause skin irritation.

Skin Absorption

May be harmful if absorbed through the skin.

Eye Contact

May cause eye irritation.

Inhalation

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

Ingestion

May be harmful if swallowed.

RTECS Number: N/A

Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly

Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

Proper Shipping Name: Pyrophoric liquids, organic, n.o.s. UN#: 2845

Class: 4.2

Packing Group: Packing Group I

Hazard Label: Spontaneously combustible

PIH: Not PIH

IATA

Proper Shipping Name: Pyrophoric liquid, organic, n.o.s.

IATA UN Number: 2845 Hazard Class: 4.2 Packing Group: 1

Not Allowed - Aircraft: Not permitted for air transport.

Section 15 - Regulatory Information

EU Additional Classification

Symbol of Danger: F Xi Indication of Danger Highly Flammable, Irritant.

Risk Statements

R: 17 36/37/38 Spontaneously flammable in air, 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.

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US Classification and Label Text

Indication of Danger

Pyrophoric (USA) Highly Flammable (EU), Corrosive.

Risk Statements

Spontaneously flammable in air. Causes burns.

Safety Statements

Keep away from sources of ignition - no smoking. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Take off immediately all contaminated clothing. Wear suitable protective clothing, gloves, and eye/face protection.

United States Regulatory Information

SARA Listed: No

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: No

NDSL: No

Section 16 - Other Information

Disclalmer

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 2007 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

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