SIGMA-ALDRICH

Material Safety Data Sheet

Version 4.0 Revision Date 07/27/2010 Print Date 01/01/2012

1. PRODUCT AND COMPANY IDENTIFICATION			
Product name	:	Bis(dimethylphosphino)methane	
Product Number Brand	:	592684 Aldrich	
Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA	
Telephone Fax Emergency Phone #	:	+1 800-325-5832 +1 800-325-5052 (314) 776-6555	

2. HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards

Pyrophoric

GHS Label elements, including precautionary statements

Pictogram	
Signal word	Danger
Hazard statement(s) H250	Catches fire spontaneously if exposed to air.
Precautionary statement(s) P222 P231 P422	Do not allow contact with air. Handle under inert gas. Store contents under inert gas.
HMIS Classification Health hazard: Flammability: Physical hazards:	0 4 3
NFPA Rating Health hazard: Fire: Reactivity Hazard:	0 0 3
Potential Health Effects	
Inhalation Skin Eyes Ingestion	May be harmful if inhaled. May cause respiratory tract irritation. May be harmful if absorbed through skin. May cause skin irritation. May cause eye irritation. May be harmful if swallowed.
OMPOSITION/INFORMATION (ON INGREDIENTS

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula	: C ₅ H ₁₄ P ₂
Molecular Weight	: 136.11 g/mol

CAS-No. EC-No. Index-No. Concentration					
Bis(dimethylphosphino)methane					
64065-08-3	-	-	-		

4. FIRST AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

Further information

Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

7. HANDLING AND STORAGE

Precautions for safe handling

Keep away from sources of ignition - No smoking.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Handle and store under inert gas.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection

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

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Protective gloves against thermal risks

Eye protection

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

Skin and body protection

Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form

Safety data

рН	no data available
Melting point	no data available
Boiling point	42 °C (108 °F) at 16 hPa (12 mmHg) - lit.
Flash point	no data available
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Density	0.86 g/cm3 at 25 °C (77 °F)
Water solubility	no data available

liquid

10. STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions Reacts violently with water.

Conditions to avoid no data available

Materials to avoid Strong oxidizing agents

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Oxides of phosphorus

11. TOXICOLOGICAL INFORMATION

Acute toxicity no data available

Skin corrosion/irritation no data available

Serious eye damage/eye irritation no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- NTP: No component 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 identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure (Globally Harmonized System) no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System) no data available

Aspiration hazard no data available

Potential health effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion	May be harmful if swallowed.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.

Additional Information

12. ECOLOGICAL INFORMATION

Toxicity

no data available

Persistence and degradability no data available

Bioaccumulative potential no data available

Mobility in soil no data available

PBT and vPvB assessment no data available

Other adverse effects

no data available

13. DISPOSAL CONSIDERATIONS

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN-Number: 2845 Class: 4.2 Packing group: I Proper shipping name: Pyrophoric liquids, organic, n.o.s. (Bis(dimethylphosphino)methane) Marine pollutant: No Poison Inhalation Hazard: No

IMDG

UN-Number: 2845 Class: 4.2 Packing group: I EMS-No: F-G, S-M Proper shipping name: PYROPHORIC LIQUID, ORGANIC, N.O.S. (Bis(dimethylphosphino)methane) Marine pollutant: No

ΙΑΤΑ

UN-Number: 2845 Class: 4.2 Proper shipping name: Pyrophoric liquid, organic, n.o.s. (Bis(dimethylphosphino)methane) IATA Passenger: Not permitted for transport IATA Cargo: Not permitted for transport

15. REGULATORY INFORMATION

OSHA Hazards

Pyrophoric

DSL Status

This product contains the following components that are not on the Canadian DSL nor NDSL lists.

Bis(dimethylphosphino)methane

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: 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.

CAS-No. 64065-08-3

SARA 311/312 Hazards

Reactivity Hazard

Massachusetts Right To Know Components

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

Pennsylvania Right To Know Components

Bis(dimethylphosphino)methane	CAS-No. 64065-08-3	Revision Date
New Jersey Right To Know Components	CAS-No.	Revision Date
Bis(dimethylphosphino)methane	64065-08-3	

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Further information

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