

Preparation Date 20-Mar-2019

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Revision Number: 01

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product Description	Dimethyl Phosphite
Pure Substance/preparation	Substance
CAS-No	868-85-9
EC number	212-783-8

### Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Recommended use	Industrial chemical, Manufacture of substance
Uses advised against	Non labeled activities

### Details of the Supplier of the Safety Data Sheet

#### Supplier

#### UPL Limited

CTS No 610 B/2, Behind, Off,  
Western Express Hwy, Teacher's Colony,  
Bandra East, Mumbai,  
Maharashtra 400051

E-mail address info.in@uniphos.com

### Emergency Telephone Number

Company Phone number +91-(022) -2646-8000 (From 9:00 A.M. to 5:00 P.M.)  
Emergency telephone number Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887  
Medical: Rocky Mountain Poison Control Center  
(866) 673-6671 (24hrs)

## 2. Hazard Identification

### Classification

#### OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Sensitization	Category 1 - (H317)
Mutagenicity	Category 2 - (H341)
Carcinogenicity	Category 2 - (H351)
Aquatic chronic toxicity	Category 3 - (H412)

### Label elements

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**Signal Word** - Warning

**Hazard Statement**

- H317 - May cause an allergic skin reaction
- H341 - May cause genetic defects
- H351 - May cause cancer
- H412 - Harmful to aquatic life with long lasting effect

**Precautionary Statements - EU (§28, 1272/2008)**

**Prevention**

- P201 Obtain special instruction before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
- P272 - Contaminated work clothing should not be allowed out of the workplace.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P273 - Avoid release to the environment.

**Response**

- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P321 Specific treatment (see ... on this label)
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P391 Collect spillage

**Storage**

- P403+ P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.

**Disposal**

- P501 Dispose of contents/container to an approved waste disposal plant.

**2.3 Other Hazards**

No other information available.

## 3. Composition/information on Ingredients

Chemical name	CAS-No	EC No	W/ W %	EU - GHS Substance Classification (REGULATION (EC) No 1272/2008)	REACH No.
Dimethyl Phosphite	868-85-9	212-783-8	<=100	Skin Sens. 1; Muta. 2; Carc. 2; Aquatic Chronic 3; H317, H341,H351,H412	no data available

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

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## 4. First aid measures

### Description of first-aid measures

<b>General advice</b>	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
<b>Eye contact</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If in contact with eyes, get immediate medical attention.
<b>Skin contact</b>	Wash off with soap and plenty of water for at least 15 minutes. Clean contaminated clothing and shoes before reuse or discard if they cannot be thoroughly cleaned. If skin irritation or rash occurs, get medical attention.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Rinse mouth. Do not induce vomiting unless told by physician. If vomiting occurs ensure patient can breathe. Seek medical attention, if you feel unwell.
<b>Inhalation</b>	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Give artificial respiration if victim is not breathing. Seek medical attention, if you feel unwell.

### Most Important Symptoms and Effects, Both Acute and Delayed

The most important known symptoms and effects are described in labeling see section (2) and/or in section 11.

### Indication of immediate medical attention and special treatment needed

Treat symptomatically and supportively.

## 5. Fire-fighting measures

### Extinguishing media

<b>Suitable extinguishing media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Unsuitable extinguishing media</b>	High pressure water jets may scatter and spread the fire.

### Special hazards arising from the substance or mixture

<b>Special Hazard</b>	Thermal decomposition can lead to release of irritating gases and vapors.
<b>Hazardous combustion products</b>	Phosphorous acid, methanol, Carbon oxide

### Advice for Firefighters

Wear self-contained breathing apparatus and protective suit. In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of involved material.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

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Do not eat, drink or smoke while using this product. Avoid contact with skin and eyes. Do not breathe vapor/mist. Keep unnecessary people away. Isolate area. Keep out of low areas. Ventilate closed spaces before entering.

## **Environmental Precautions**

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. See Section 12 for additional ecological information. Avoid release to the environment. Collect spillage.

## **Methods and materials for containment and cleaning up**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Follow all label instructions regarding spill clean-up and residual disposal methods.

## **Reference to other sections**

Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

## **7. Handling and Storage**

### **Precautions for Safe Handling**

#### **Handling**

Do not handle until all safety precautions have been read and understood. Wear Suitable protective equipment. Keep away from heat/spark/flames/hot surfaces. No smoking. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof electrical/ventilating lighting/.../equipment. Use only non-sparking tools. Take off precautionary measures against static discharge. Avoid contact with skin and eyes. Avoid breathing vapor or mist. Ensure adequate ventilation. Wash hands, face and exposed skin thoroughly after handling. Avoid release to environment. Empty containers may contain hazardous residues. Do not reuse empty container.

#### **Hygiene measures**

Wash hands, face and exposed skin thoroughly after handling. Keep away from food, drink and animal feedingstuffs. Handle in accordance with good industrial hygiene and safety practice.

### **Conditions for safe storage, including any incompatibilities**

Store in accordance with local regulation. Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Keep away from incompatible material. Do not store in unlabelled containers. Keep out of reach of children. Do not store material near food, feed or drinking water. Use appropriate containment to avoid environmental contamination.

Incompatible material: Strong bases, Strong acids, Acid chlorides

#### **Specific end uses**

Laboratory chemical, Industrial chemical

## **8. Exposure Controls/ Personal Protection**

### **Control Parameters**

**Exposure Limits** Apply technical measures to comply with the occupational exposure limits

**Derived No Effect level (DNEL)** No information available

**Predicted No Effect Concentration** No information available

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## Exposure Controls

Ensure adequate ventilation, especially in confined areas. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

## Personal protective equipment

<b>Eye protection</b>	Avoid contact with eyes. Where there is potential for eye contact have eye flushing equipment available. Tightly fitting safety goggles. Face-shield.
<b>Skin protection</b>	Wear protective gloves/clothing. Long-sleeved clothing.
<b>Hand protection</b>	Wear suitable protective glove/clothing. 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.
<b>Respiratory protection</b>	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**Environmental exposure controls** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. Local authorities should be advised if significant spillage cannot be contained.

## 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

<b>Appearance</b>	Colorless liquid with mild odour
<b>Physical state</b>	Liquid
<b>Odor</b>	Mild
<b>Color</b>	Colorless
<b>Odor threshold</b>	No information available

<u>Property</u>	<u>VALUES</u>	<u>Remarks/ Method</u>
<b>pH</b>	No information available	
<b>Melting point/freezing point</b>	-20°C	
<b>Boiling Point/Range</b>	171.1°C at 1013.25 hPa	
<b>Flash Point</b>	70°C	
<b>Flammability (solid, gas)</b>	Not applicable	
<b>Flammability or explosive limit</b>	No information available	
<b>Upper</b>	No information available	
<b>Lower</b>	No information available	
<b>Specific gravity</b>	1.2 g/cm <sup>3</sup>	
<b>Vapor density</b>	No information available	
<b>Vapor pressure</b>	1.35 hPa at 20°C	
<b>Water solubility</b>	No information available	
<b>Partition coefficient: n-octanol/water</b>	Log Kow = -1.13	
<b>Autoignition temperature</b>	No information available	
<b>Decomposition temperature</b>	No information available	
<b>Viscosity</b>	1.4 mPa.s at 20°C	
<b>Oxidizing properties</b>	No information available	
<b>Explosive properties</b>	No information available	
<b>Surface Tension</b>	No information available	

## 10. Stability and Reactivity

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## **Reactivity**

None known, based on available information.

## **Chemical stability**

Stable under normal conditions.

## **Possibility of hazardous reaction**

Hazardous polymerization does not occur.

## **Conditions to avoid**

Keep away from open flames, hot surfaces and source of ignition.

## **Incompatible Materials**

Strong bases, Strong acids, Acid chlorides

## **Hazardous Decomposition Products**

Thermal decomposition can lead to release of irritating/toxic gases and vapors.

Hazardous decomposition products formed under fire conditions: phosphorous acid, methanol, Carbon oxide

## **11. Toxicological Information**

### **Information on Toxicological Effects**

LD50 ORAL = 3283 mg/kg

LC50 Inhalation = 7100 mg/m<sup>3</sup>

### **Source: ECHA**

#### **Local effect**

<b>Inhalation</b>	Based on available information, classification criteria are not met.
<b>Eye contact</b>	Non-irritant
<b>Skin contact</b>	Non-irritant
<b>Ingestion</b>	Based on available information, classification criteria are not met.

### **Chronic toxicity**

<b>Skin Corrosion/Irritation</b>	Non-irritant
<b>Eye damage/irritation</b>	Non-irritant
<b>Sensitization</b>	May cause an allergic skin reaction
<b>Mutagenic effects</b>	Suspected of causing genetic defects
<b>Carcinogenic effects</b>	Suspected of causing cancer
<b>Reproductive effects</b>	No additional information available
<b>STOT - Single Exposure</b>	No additional information available
<b>STOT - Repeated exposure</b>	No additional information available
<b>Aspiration hazard</b>	No additional information available

## **12. Ecological Information**

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## **Ecotoxicity**

Harmful to aquatic life with long lasting effect.

LC50/96hr/Fish = 15.2 mg/L

EC50/96hr/Daphnia = 24.8 mg/L

EC50/96hr/Alga = 100 mg/L

**Source : ECHA**

## **Persistence and Degradability**

Readily biodegradable

## **Bioaccumulative Potential**

No information available.

## **Mobility in Soil**

No information available.

## **Results of PBT and vPvB Assessment**

No information available.

## **Other Adverse Effects**

No information available.

## **13. Disposal Considerations**

### **Waste Treatment Methods**

**Waste from Residues / Unused Products**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging**

Empty container should be taken for local recycling, recovery or waste disposal. Do not re-use container. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## **14. Transport Information**

**IMDG/IMO**

Not Regulated

**IATA/ICAO**

Not Regulated

## **15. Regulatory Information**

### **Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture**

**International Inventories**

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USINV -  
TSCA -  
EINECS/ELINCS -  
DSL/NDSL -  
PICCS -  
ENCS -  
China -  
AICS -  
KECL -

### Legend

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**ECHA** - European chemical agency

### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

## 16. Other Information

### Full text of H-Statements referred to under sections 2 and 3

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**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

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**End of Safety Data Sheet**





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