

An ISO 9001 : 2015 & GMP Certified Company

101, Aarkay Ruby Industrial Estate (1B), Opp Shree Narayan Industrial Estate, Chinchpada, Vasai East, Waliv, Maharashtra 401208. Tel: + 91 98200 41841

Email: info@ottokemi.com Web: www.ottokemi.com

Creation Date :- 19-05-2025 Rivision Date :- 02-08-2030

### **MATERIAL SAFETY DATA SHEET (MSDS)**

### **SECTION 1. Product identifiers**

Product name: Diphenylphosphine oxide, 98%

Product Code: D 2768 CAS No : 4559-70-0

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use: Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet

Company identification
OTTO CHEMIE PVT LTD

101, Aarkay Ruby Industrial Estate(1B), Opp Shree Narayan Industrial Estate,

Chinchpada, Vasai East, Waliv, Maharashtra 401208.

Email info@ottokemi.com

1.4. Emergency telephone number

Phone no.: + 91 22 2207 0099 (9:00am - 6:00 pm)

#### SECTION 2. Hazard(s) identification

Classification

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

Label Elements Signal Word

Warning

Hazard Statements

Harmful if swallowed

Company

Fisher Scientific Company

One Reagent Lane Fair Lawn, NJ 07410

Tel: (201) 796-7100

Acros Organics

One Reagent Lane

Fair Lawn, NJ 07410

Acute oral toxicity Category 4

Skin Corrosion/Irritation Category 2

Serious Eye Damage/Eye Irritation Category 2

Specific target organ toxicity (single exposure) Category 3

Target Organs - Respiratory system.

Causes serious eye irritation

May cause respiratory irritation

Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continuerinsinglf eye irritation persists: Get medical advice/attention

### DISCLAIMER

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Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Storage

Store in a well-ventilated place. Keep container tightly closed

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

## **SECTION 3. Composition/information on Ingredients**

Component	CAS No	Weight %
Diphenylphosphine oxide	4559-70-0	<=100

#### **SECTION 4. First-aid measures**

General Advice If symptoms persist, call a physician. Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Getmedical attention. Skin Contact Wash off immediately with plenty of water for at least 15 minutes. If skin irritationpersists.call a physician.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. Get medical attentionif symptoms occur.

drink afterwards plenty of water. Get medical attentionif

symptoms occur. Most important symptoms and

effects

None reasonably foreseeable.

Notes to Physician Treat symptomatically

### SECTION 5. Fire-fighting measures

Suitable Extinguishing Media Water spray. Carbon dioxide (CO 2). Dry chemical. Chemical foam. Unsuitable Extinguishing Media No information available

Flash Point No information available

Method - No information available

Autoignition Temperature No information available

**Explosion Limits** 

Upper No data available

Lower No data available

Sensitivity to Mechanical Impact No information available

Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition. Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO2). Oxides of phosphorus. Phosphorus trihydride (phosphine). Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) andfull protective gear.

. NFPA

## **SECTION 6. Accidental release measures**

Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required. Avoiddust formation. Environmental Precautions Should not be released into the environment. Methods for Containment and Clean UpSweep up and shovel into suitable containers for disposal. Keep in suitable, closedcontainers for disposal.

## SECTION 7. Handling and Storage

Handling Wear personal protective equipment/face protection. Ensure adequate ventilation. Donot get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation. Storage. Keep in a dry, cool and wellventilated place. Keep container tightly closed. IncompatibleMaterials. Water. Strong oxidizing agents.

## SECTION 8. Exposure controls / personal protection

Exposure Guidelines This product does not contain any hazardous materials with occupational exposurelimitsestablished by the region specific regulatory bodies.

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Engineering Measures None under normal use conditions. Ensure that eyewash stations and safety showersareclose to the workstation location. Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as describedbyOSHA's eye and face protection regulations in 29 CFR 1910.133 or EuropeanStandardEN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure. Respiratory Protection No protective equipment is needed under normal use conditions. Recommended Filter type: Particle filter. Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

## **SECTION 9. Physical and chemical properties**

Physical State

Yellow-orange Appearance Odor Odorless

Odor Threshold No information available

рΗ Not applicable

Melting Point/Range 50 - 57 °C / 122 - 134.6 °F Boiling Point/Range No information available No information available Flash Point **Evaporation Rate** Not applicable

Flammability (solid,gas) No information available Flammability or explosive limits

Upper No data available Lower No data available Vapor Pressure No information available Vapor Density Not applicable

Specific Gravity No information available

Solubility No information available Partition coefficient; n-octanol/water No data available Autoignition Temperature No information available

Decomposition Temperature No information available

Not applicable Viscosity Molecular Formula C12 H11 O P Molecular Weight 202.2

## **SECTION 10. Stability and reactivity**

Reactive Hazard None known, based on information available

Stability Stable under normal conditions. Conditions to Avoid Incompatible products. Exposure to moist air or water.

Incompatible Materials Water, Strong oxidizing agents

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2), Oxides of phosphorus, Phosphorustrihydride (phosphine)

Hazardous Polymerization No information available.

## **SECTION 11: Toxicological information**

11.1 Information on toxicological effects

Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Toxicity to Animals:

Oral LD50 Rat: 1500 mg/kg; Dermal LD50 Rabbit: 2000mg/kg

Inhalation LC50 Rat: > 50mg/L.

Chronic Effects on Humans: CARCINOGENIC EFFECTS: Classified None. by NTP, None. by OSHA, None. by NIOSH.

Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of inhalation (lung irritant).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Not available.

## **SECTION 12. Ecological information**

Ecotoxicity

Persistence and Degradability No information available

Bioaccumulation/ Accumulation No information available. Mobility No information available.

SECTION 13. Disposal considerations Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classifiedasahazardous waste. Chemical waste generators must also consult local, regional, andnational hazardous waste regulations to ensure complete and accurate classification.

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### **SECTION 14: Transport information**

DOT Not regulated TDG Not regulated IATA Not regulated IMDG/IMO Not regulated Not regulated Not regulated Not regulated Not regulated Not regulated

### **SECTION 15: Regulatory Information**

United States of America Inventory

Component CAS No TSCA TSCA Inventory notification -

Active-Inactive

TSCA - EPA RegulatoryFlagsDiphenylphosphine oxide 4559-70-0 - - - Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical

Substances & Mixtures, Under TSCA Section 6(h) (PBT)

Not applicable

TSCA 12(b) - Notices of Export Not applicable

International Inventories

X = listed, U.S.A. (TSCA), Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Australia (AICS), Korea (KECL), China (IECSC), Japan (ENCS), Philippines (PICCS), Taiwan (TCSI), Japan (ISHL), New Zealand (NZIoC), Japan (ISHL).

Component CAS No DSL NDSL EINECS PICCS ENCS ISHL AICS IECSCKECLDiphenylphosphine oxide 4559-70-0 - - - - X - - -

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

**SARA 313** 

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not containanychemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

OSHA - Occupational Safety and

Health Administration

Not applicable

**CERCLA** 

This material, as supplied, does not contain any substances regulated as hazardous substances under the ComprehensiveEnvironmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments andReauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or statelevel pertaining to releases of this material. California Proposition 65 This product does not contain any Proposition 65 chemicals.

Regulations

Not applicable

U.S. Department of Transportation

Reportable Quantity (RQ): N

DOT Marine Pollutant N

DOT Severe Marine Pollutant N

U.S. Department of Homeland

Security

This product does not contain any DHS chemicals. Other International Regulations

Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH Not applicable

Component CAS No REACH (1907/2006) -

Annex XIV - Substances

Subject to Authorization

REÁCH (1907/2006) -

Annex XVII - Restrictions

on Certain Dangerous

Substances

REACH Regulation (EC1907/2006) article 59 -Candidate List of

Substances of Very HighConcern (SVHC)

Diphenylphosphine oxide 4559-70-0 - - - Safety, health and environmental regulations/legislation specific for the substance or mixture

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Component CAS No OECD HPV Persistent Organic

Pollutant

Ozone Depletion

Potential

Restriction of

HazardousSubstances (RoHS)Diphenylphosphine oxide 4559-70-0 Not applicable Not ap

Not applicable

Other International Regulations

Component CAS No Seveso III Directive

(2012/18/EC) -

**Qualifying Quantities** 

for Major Accident

Notification

Seveso III Directive

(2012/18/EC) -

Qualifying Quantities

for Safety Report

Requirements

Rotterdam

Convention (PIC)

Basel Convention(Hazardous Waste)Diphenylphosphine oxide 4559-70-0 Not applicable Not applicable Not applicable Not applicable

### **SECTION 16: Other Information**

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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