

MATERIAL SAFETY DATA SHEET

According to **GB/T 16483-2008, GB/T 17519-2013**

SECTION 1 Identification of the chemical and supplier

Chemical Name: triphenyl phosphine oxide

Synonyms: -

CAS No.: 791-28-6

EC No.: 212-338-8

Molecular Formula: C₁₈H₁₅OP

Recommended Uses: Please consult manufacturer.

Restrictions on Use: Please consult manufacturer.

Name of the company: Shandong Hongchuan
Chemical Co., Ltd

Address of the company: 417# Meiyuan

Building, Dongying, Shandong, China

Post code: 257091

Fax number: 86-546-8339803

Telephone number: 86-546-8339803

E-mail address: hcccl777@yahoo.com

Emergency phone number: 86-546-8339803

SECTION 2 Hazards identification

Dangerous classification of substances or mixtures



Acute toxicity (diameter) type 4 H302 swallowing is harmful, Acute toxicity (diameter) type 4 H302 swallowing is harmful

The harm of water environment (acute) class 3 H402 harmful to aquatic organisms

The harm of water environment (chronic) class 3 H412 harmful to aquatic organisms and have long-lasting effects don't lead to other dangerous no known information classification.

The label element

The GHS label elements according to the chemical classification and labeling system (GHS) for the global unified classification and marking.

Hazard pictograms



GHS07

Risk warning signal words explaining H302 swallowing harmful

H402 harmful to aquatic organisms

H412 harmful to aquatic organisms and have long-lasting effects

To prevent that

P273 avoid release to the environment.

P264 operations after a thorough cleaning.

P270 don't eat, drink or smoke when using this product.

P301 + P312 as mistakenly swallow, such as feeling unwell, call detoxification center/doctor /...

P330 gargle.

P501 in accordance with local/regional/national/international regulations of handling inclusions/container.

Other hazards

VPvB (high persistent and high biological enrichment material) : not applicable

SECTION 3 Composition/information on ingredients

Pure substance or mixture: pure substance

Name of CAS number:

791-28-6 oxygen triphenyl phosphine

Identification number:

The eu number: 212-338-8

SECTION 4 First aid measures

First aid measures describe when inhaled: provide fresh air. If necessary, provide artificial respiration. Let the patient to keep warm. If symptoms continue to ask the doctor. Seek medical advice immediately.

After skin contact: immediately with soap and water thoroughly flushed. Seek medical advice immediately.

After eye contact: rinse with water opened his eyes for a few minutes. Then consult a doctor. Eat later: seek medical treatment.

To the doctor's information:

The most important data on acute delayed symptoms and its effects no more.

Need any medical care, and don't handle instructions. No more related information.

SECTION 5 Firefighting measures

Extinguishing media

Suitable extinguishing agent: use carbon dioxide (CO₂), extinguishing fire powder or spray. If the fire is very big, please use the sprinkler or alcohol foam fluid.

The particularly dangerous substance or mixture

If this product in case of fire, will release the following material:

Carbon monoxide and carbon dioxide

Phosphorus oxide.

Suggestions to firefighters

SECTION 6 Accidental release measures

Prevention of the individual, protective equipment and emergency procedures Wear protective device and not protected people stay away from. Ensure adequate ventilation

The environment prevention measures: do not let any water into the drainage system and product. Sealing and purification methods and materials: please according to article 13 terms of dealing with the contaminated materials. Prevent secondary hazard prevention measures: no special measures required. On the other parts

See section 7 for information on safe handling.

See section 8 for information on personal protective measures.

Please refer to section 13 on disposal of data.

SECTION 7 Handling and storage

Treatment safety precautions Keep container sealed.

An airtight container and store in a cool, dry place.Ensure good ventilation and exhaust device in workshop.

The relevant information for fire and explosion prevention: no known information.

Safe storage conditions (such as common storage substance) storage:

Repository and the container need to reach the requirements of the: no special requirements.Information about storage facilities in public storage reservoir: stay away from storage.More information about storage conditions:

Please seal the container.

Sealed storage and in the shade

Cool, dry place.

Use no more relevant details

SECTION 8 Exposure controls/personal protection

More information technology systems design: for dangerous chemicals in normal working conditions of the fume hood cover mouth wind speed should be at least 100 feet per minute.Control parameters

With the need of the critical value in the workplace monitoring components: this product does not contain any need in the workplace monitoring, has a critical value of the material.

Additional information: no data

Exposure control personal protective equipment: general protection and health measures:

When processing chemicals, should follow the general preventive measures.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties of a Ming said

Appearance:

Shape: crystalline powder

Color: white

Bouquet: not sure

Olfactory threshold: not sure.

PH nt: not applicable.

According to the condition changes

Melting point/melting range: 153-159 ° C

Boiling point/boiling range: 360 ° C

Sublimation temperature/start: not sure

Flash: 180 ° C

Combustible (solid, gas) not decided.

Burns: 590 ° C

Decomposition temperature: not sure

Spontaneous combustion: not sure.

The danger of explosion: not sure explosion limit:

Low: not sure

High: not sure

Vapor pressure: not applicable.

Density in 20 ° C 1.2 g/cm after

Phase dominated density in the air

Vapor density is not applicable

Evaporation rate is not applicable

SECTION 10 Stability and reactivity

Reactive no known information.

Chemical stability recommended storage condition is stable.

Thermal decomposition/to avoid environment: if used in accordance with regulations and storage will not break down.

Harmful reaction possibility and strong oxidizer

Should avoid the condition of no more related information.

Incompatible substances: oxide

Hazardous decomposition products:

Carbon monoxide and carbon dioxide

Phosphorus oxide (such as P₂O₅)

SECTION 11 Toxicological information

Information about the toxicity of learning effects Acute toxicity

Swallowing harmful

Toxicity of chemical substances contained the acute toxicity of the material data in the database.

Related to the classification of LD/LC₅₀ value:

The mouth cavity	LD ₅₀	1380 mg/kg (mus)
------------------	------------------	------------------

Skin irritation or corrosion may be stimulating.

Eye stimulation or corrosion may be stimulating

Breathing or skin allergy no known sensitizing effects.

Have no effect on reproductive cells respectively.

Carcinogenicity EPA, IARC, NTP, OSHA and ACGIH without the material the carcinogenicity of categorical data.

Have no effect on reproductive toxicity.

Specific target organ system toxicity - repeated exposure.

Specific target organ system toxicity - disposable contact has no effect.

Inhalation hazard has no effect.

Poison in pharmacokinetics, metabolism, and no data distribution information

Subacute and chronic poisoning: have no effect.

More toxicology data: according to the current knowledge of our master, this kind of material of acute/chronic toxicity is unknown.

SECTION 12 Ecological information

The toxicity of

Aquatic animal toxicity: no more related information.

Persistence and degradability, no more related information.

Potential biological cumulative no more related information.

No more mobility in the soil of relevant information.

Ecological toxicity effect:

Note: harmful to aquatic organisms

More information ecology: general comments: don't let the product into the groundwater, water, or drainage system.

Water hazard level 2 (regulation), Germany (via the list into the line since I review) : harmful to water. Even a small amount of product into the underground, will also be dangerous for drinking water. May cause long-lasting harmful effects to aquatic organisms

Must avoid into the environment. Harmful organic compounds in water

PBT (persistent, biological enrichment, toxic substances) and vPvB (high persistent and high biological enrichment material) the evaluation results

PBT (persistent, biological enrichment, toxic substances) : not applicable.

VPvB (high persistent and high biological enrichment material) : not applicable.

Other side effects, no more related information.

SECTION 13 Disposal considerations

Waste disposal method is proposed to the product to the professional hazardous waste for disposal. Must comply with the regulations of the government to special treatment.

Please refer to the state, local and national regulations for proper handling.

Not clean packaging:

Suggestion: should be dealt with according to the official rules.

SECTION 14 Transport information

UN no. ADN IMDG, IATA has no effect
The UN transport name right ADN IMDG, IATA has no effect
The carriage of dangerous level Level has no effect
The packaging group IMDG, IATA no effect
Bad for the environment: do not apply.
Special prevention measures shall not apply to the user
Please according to MARPOL73/78 (for ship Marine pollution prevention agreement) attachment book II and IBCCode (international shipping goods coding) do not apply to mass transport.

SECTION 15 Regulatory information

Pure substance or mixture of safety, health and environmental regulations/laws
Chinese Chemical Inventory of Existing Chemical Substances are listed out of the material.

Australia has listed the material chemical warehouse.

Of drugs or drug standard unified didn't have the material.

The GHS label elements according to the chemical classification and labeling system (GHS) for the global unified classification and marking.

Dangerous pictographic chart



GHS07

GHS07

The signal word warning

The statement

H302 swallowing harmful

H402 harmful to aquatic organisms

H412 harmful to aquatic organisms and have long-lasting effects

Prevention of statement

P273 avoid release to the environment.

P264 operations after a thorough cleaning.

P270 don't eat, drink or smoke when using this product.

P301 + P312 as mistakenly swallow, such as feeling unwell, call detoxification center/doctor /...

P330 gargle.

P501 in accordance with local/regional/national/international regulations of handling inclusions/container.

National regulations

Information on use restrictions:

The employment of young men must abide by the relevant restrictions.

Qualified technical personnel to use only.

Water level of harm: dangerous level 2 (via the single into the line since I review) : harmful to water. The rest of the rules, restrictions and regulations prohibited

Through the REACH, Article 57, attention to substance not listed. Chemical safety assessment: not yet chemicals safety evaluation

SECTION 16 Others

Employers should give this information to supplement their other information obtained, and the applicability of the independent judgment this information, to ensure the correct use and employee health and safety. Do this information is not fully guarantee, not use the product according to the material safety data sheet or when used in conjunction with other products and the operation process, the consequences is responsible by the users themselves.

Department issued a safety data sheet: global marketing abbreviations:

ADR: Accord europeen sur le transport des marchandises dangereuses par Route (European agreement on international road transport of dangerous goods) EINECS: Europe's existing commercial chemical list

CAS: chemical abstract club (branches of the American chemical society)

LC50: lethal concentration, 50%

The lethal dose, 50%

VPvB: very Persistent and very Bioaccumulative

ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: occupational safety and health administration (United States)

The NTP: the National Toxicology Program (USA)

The IARC: International Agency for Research on Cancer

EPA: Environmental Protection Agency (USA)