

SAFETY DATA SHEET

1. IDENTIFICATION

Product name: Triphenylphosphine

CAS No. : 603-35-0

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2. HAZARDS IDENTIFICATION

GHS classification

PHYSICAL HAZARDS

Not classified

HEALTH HAZARDS

Acute toxicity (Oral) Category 4

Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2A

Skin sensitization Category 1

Specific target organ toxicity Respiratory tract irritation

- Single exposure [Category 3]

Specific target organ toxicity Nervous system, Heart

- Repeated exposure [Category 1]

Specific target organ toxicity Liver

- Repeated exposure [Category 2]

ENVIRONMENTAL HAZARDS

Long-term aquatic hazard Category 4

GHS label elements, including precautionary statements

Pictograms or hazard symbols



Signal word

Danger

Hazard statements

Harmful if swallowed

Causes skin irritation

Causes serious eye irritation

May cause an allergic skin reaction

Causes damage to organs through prolonged or repeated exposure : Nervous system Heart

May cause damage to organs through prolonged or repeated exposure : Liver

May cause respiratory irritation

May cause long lasting harmful effects to aquatic life

Precautionary statements

[Prevention]

Do not breathe dust/fume/gas/mist/vapours/spray.

Use only outdoors or in a well-ventilated area.

Avoid release to the environment.

Do not eat, drink or smoke when using this product.

Contaminated work clothing should not be allowed out of the workplace.

Wash hands thoroughly after handling.

Wear protective gloves/eye protection/face protection.

[Response]

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

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

Rinse mouth.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Gently wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

Get medical advice/attention if you feel unwell.

[Storage]

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

Store locked up.

[Disposal]

Dispose of contents/container through a waste management company authorized by the local government.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Substance

Components: Triphenylphosphine

CAS No.: 603-35-0

Chemical Formula: C₁₈H₁₅P

4. FIRST AID MEASURES

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

Get medical advice/attention if you feel unwell.

Skin contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

Most important Cough, Sore throat, Redness, Pain symptoms/effects, acute and delayed:

Protection of first-aiders: A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Dry chemical, foam, water spray, carbon dioxide.

Specific hazards arising from the chemical: Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.

Precautions for firefighters: Fire-extinguishing work is done from the windward and the suitable fire-extinguishing

method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable

containers if safe to do so.

Special protective When extinguishing fire, be sure to wear personal protective equipment. equipment for firefighters:

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, Use extra personal protective equipment (P3 filter respirator for toxic particles). Keep protective equipment and people away from and upwind of spill/leak. Entry to non-involved personnel should

emergency procedures: be controlled around the leakage area by roping off, etc.

Environmental precautions: Prevent product from entering drains.

Methods and materials for Sweep dust to collect it into an airtight container, taking care not to disperse it.

containment and cleaning Adhered or collected material should be promptly disposed of, in accordance with

up: appropriate laws and regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical measures: Handling is performed in a well ventilated place. Wear suitable protective equipment.

Prevent dispersion of dust. Wash hands and face thoroughly after handling.

Use a closed system if possible. Use a local exhaust if dust or aerosol will be generated.

Advice on safe handling: Avoid contact with skin, eyes and clothing. Conditions for safe storage, including any

Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store locked up.

Store away from incompatible materials such as oxidizing agents.

Packaging material: Comply with laws.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: Install a closed system or local exhaust. Also install safety shower and eye bath.

Personal protective equipment

Respiratory protection: Dust respirator, self-contained breathing apparatus(SCBA), supplied air respirator,

etc. Use respirators approved under appropriate government standards and follow local and national regulations.

Hand protection: Impervious gloves.

Eye protection: Safety goggles. A face-shield, if the situation requires.

Skin and body protection: Impervious protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Solid

Form: Crystal- Powder

Colour: White

Odour: Odorless

pH: No data available

Melting point/freezing point:81°C

Boiling point/range: 260°C/3.3kPa

Flash point: No data available

Flammability or explosive

limits:

Lower: No data available

Upper: No data available

Vapour pressure: 96Pa/210°C

Vapour density: 9.0

Relative density: No data available

Solubility(ies):

[Water] Insoluble (0.3mg/L, 25°C)

[Other solvents]

Very soluble: Ether

Soluble: Benzene, Chloroform, Toluene, Many organic solvents

Slightly soluble: Alcohols

Log Pow: 5.69

10. STABILITY AND REACTIVITY

Chemical stability: Stable under proper conditions.

Possibility of hazardous reactions: No special reactivity has been reported.

reactions:

Incompatible materials: Oxidizing agents

Hazardous decomposition products: Carbon monoxide, Carbon dioxide, Phosphorus oxides, Phosphine

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: orl-rat LD50:700 mg/kg

skn-rbt LD50:>5 g/kg

ihl-rat LC50:1135 ppm/4H

ims-rat LD50:1500 mg/kg

Skin corrosion/irritation: skn-rbt 500 mg/24H MLD

Serious eye eye-rbt 500 mg/24H MLD

damage/irritation:

Germ cell mutagenicity: No data available

Carcinogenicity:

IARC = No data available

NTP = No data available

Reproductive toxicity: No data available

RTECS Number: SZ3500000

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Fish: No data available

Crustacea: No data available

Algae: No data available

Persistence / degradability: No data available

Bioaccumulative potential: No data available

potential(BCF):

Mobility in soil

Log Pow: 5.69

Soil adsorption (Koc): No data available

Henry's Law constant: 2.3×10^{-3}

constant(PaM³/mol):

13. DISPOSAL CONSIDERATIONS

Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

Hazards Class: Does not correspond to the classification standard of the United Nations

UN-No: Not listed

15. REGULATORY INFORMATION

Regulations on the Control over Safety of Dangerous Chemicals (State Council announces on January 26, 2002 and revised on February 16,2011): Safe use and production, the storage of a dangerous

chemical, transport, loading and unloading were prescribed. This product is included in the list of dangerous chemicals(2015)/Serial No.: 1743

16. OTHER INFORMATION

This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.