

SAFETY DATA SHEET

According to OSHA HazCom 2012
Revision date 12-Jun-2024
Revision Number 2.06

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**Product identifier**

Product Name Ethyltriphenylphosphonium Iodide

Other means of identification

Product Code(s) 328-42812

Recommended use of the chemical and restrictions on use

Recommended Use For research use only.
Uses advised against Seek expert judgment when using for purposes other than those recommended.

Details of the supplier of the safety data sheet**Distributor**

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2. HAZARDS IDENTIFICATION**GHS classification****Classification of the substance or mixture**

| | |
|---|-------------|
| Acute toxicity - Oral | Category 3 |
| Acute toxicity - Dermal | Category 4 |
| Skin corrosion/irritation | Category 2 |
| Serious eye damage/eye irritation | Category 2A |
| Specific target organ toxicity (single exposure) | Category 3 |
| Category 3 Respiratory irritation | |

Pictograms

Signal word Danger

Hazard statements

H315 - Causes skin irritation
H319 - Causes serious eye irritation
H301 - Toxic if swallowed
H312 - Harmful in contact with skin
H335 - 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

Precautionary statements-(Response)

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: Wash with plenty of soap and water Call a POISON CENTER or doctor/physician if you feel unwell If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse

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

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Rinse mouth

Precautionary statements-(Storage)

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

Precautionary statements-(Disposal)

Dispose of contents/container to an approved waste disposal plant

Others

Other hazards Not available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Substance

Formula C₂₀H₂₀IP

| Chemical Name | Molecular weight | CAS RN | Weight-% |
|-----------------------------------|------------------|-----------|----------|
| Ethyl triphenylphosphonium iodide | 418.25 | 4736-60-1 | 97 |

Impurities and/or Additives: Not applicable

4. FIRST AID MEASURES

First aid measures

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Skin contact Wash skin with soap and water.

Inhalation Remove to fresh air.

Ingestion Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards arising from the chemical

No information available.

Explosion data

Sensitivity to Mechanical Impact none.
Sensitivity to Static Discharge none.

Protective equipment and precautions for firefighters

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation, especially in confined areas.

Environmental precautions

Environmental precautions See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods and material for containment and cleaning up Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical measures Avoid contact with strong oxidizing agents.
Protective measures Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage conditions Keep container protect from light, store in well-ventilated place at room temperature (preferably cool). Keep container tightly closed.

Packaging materials Glass.

Incompatible materials Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and hand- and eye-wash facility. And display their position clearly.

Exposure limits Not applicable

Personal protective equipment

Respiratory protection Dust mask (JIS T 8151)
Hand protection chemical protective gloves (JIS T 8116)
Eye protection protective eyeglasses or chemical safety goggles (JIS T 8147)
Skin and body protection Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|-------------------------------|
| Form | |
| Color | White - slightly brown |
| Appearance | crystals - crystalline powder |
| Odor | no data available |
| pH | no data available |
| Melting point/freezing point | 169 - 171 °C |
| Boiling point, initial boiling point and boiling range | no data available |
| Flash point | no data available |
| Evaporation rate: | no data available |
| Flammability (solid, gas): | no data available |
| Upper/lower flammability or explosive limits | |
| Upper: | no data available |
| Lower: | no data available |
| Vapour pressure | no data available |
| Vapour density | no data available |
| Specific Gravity / Relative density | no data available |
| Solubilities | water : soluble . |
| n-Octanol/water partition coefficient:(log Pow) | no data available |
| Auto-ignition temperature: | no data available |
| Decomposition temperature: | no data available |
| Viscosity (coefficient of viscosity) | no data available |
| Dynamic viscosity | no data available |

10. STABILITY AND REACTIVITY

Stability

| | |
|---------------------------|--------------------------|
| Chemical stability | May be altered by light. |
| Reactivity | no data available |

Hazardous reactions

None under normal processing

Conditions to avoid

Extremes of temperature and direct sunlight

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

Carbon monoxide (CO), Carbon dioxide (CO₂), Phosphorus oxide, Halides

11. TOXICOLOGICAL INFORMATION

Acute toxicity

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|-----------------------------------|------------------|-------------|-----------------|
| Ethyl triphenylphosphonium iodide | 79 mg/kg (Rat) | N/A | N/A |

| | |
|--|-------------------|
| Skin irritation/corrosion | no data available |
| Serious eye damage/ irritation | no data available |
| Respiratory or skin sensitization | no data available |
| Reproductive cell mutagenicity | no data available |
| Carcinogenicity | no data available |
| Reproductive toxicity | no data available |

| | |
|------------------------|-------------------|
| STOT-single exposure | no data available |
| STOT-repeated exposure | no data available |
| Aspiration hazard | no data available |

12. ECOLOGICAL INFORMATION

Ecotoxicity

no data available

Persistence and degradability

No information available

Bioaccumulative potential

No information available

Mobility

no data available

Mobility in soil

No information available

Other Data

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

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

Precautionary including method of disposing contaminated packaging Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

DOT

| | |
|-------------------------|---|
| UN/ID No | UN3464 |
| Proper shipping name: | Organophosphorus compound, solid, toxic, n.o.s. (Ethyl triphenylphosphonium iodide) |
| UN classification | 6.1 |
| Subsidiary hazard class | |
| Packing group | III |
| Marine pollutant | Not applicable |

IATA

| | |
|-------------------------------------|---|
| UN/ID No | UN3464 |
| Proper shipping name: | Organophosphorus compound, solid, toxic, n.o.s. (Ethyl triphenylphosphonium iodide) |
| UN classification | 6.1 |
| Subsidiary hazard class | |
| Packing group | III |
| Environmentally Hazardous Substance | Not applicable |

IMDG

| | |
|-------------------------|---|
| UN/ID No | UN3464 |
| Proper shipping name: | Organophosphorus compound, solid, toxic, n.o.s. (Ethyl triphenylphosphonium iodide) |
| UN classification | 6.1 |
| Subsidiary hazard class | |
| Packing group | III |
| Marine pollutant (Sea) | Not applicable |

15. REGULATORY INFORMATION

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical Name | CAS RN | Weight-% | SARA 313 - Threshold Values % |
|---|-----------|----------|-------------------------------|
| Ethyl triphenylphosphonium iodide - 4736-60-1 | 4736-60-1 | 97 | N/A |

SARA 311/312 Hazard Categories

| | |
|--|----|
| Acute health hazard | No |
| Chronic Health Hazard | No |
| Fire hazard | No |
| Sudden release of pressure hazard | No |
| Reactive Hazard | No |

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65

This product does not contain any chemicals regulated by Proposition 65

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

Issue Date 10-Jun-2024

Revision date 12-Jun-2024

Revision Note

No information available

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet