

INTATRADE
MATERIAL SAFETY DATA SHEET
according to 1907/2006/EC, Article 31

Printed: 28.02.2022

1. IDENTIFICATION OF SUBSTANCE AND OF THE COMPANY

Product name: **Triisopropylphosphine**
Product code: EO00679
Company: INTATRADE Chemicals GmbH
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2. HAZARDS IDENTIFICATION

Hazard designation: C Corrosive
F Highly flammable
Information pertaining to particular dangers for man and environment: R 17 Spontaneously flammable in air.
R 34 Causes burns.
GHS label elements:



Danger

H250 Catches fire spontaneously if exposed to air.
H252 Self-heating in large quantities; may catch fire.



Danger

Prevention: H314 Causes severe skin burns and eye damage.
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Response: P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage: P405 Store locked up.
P422 Store contents under inert gas.
Disposal: P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization
Designation: Triisopropylphosphine
CAS-No.: 6476-36-4
EC-No.: 229-333-1

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| General information | Instantly remove any clothing soiled by the product. After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Seek immediate medical advice. |
| After skin contact | Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice. |
| After eye contact | Rinse opened eye for several minutes under running water. Then consult doctor. |
| After swallowing | Seek immediate medical advice. |

5. FIRE FIGHTING MEASURES

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| Suitable extinguishing agents: For safety reasons unsuitable extinguishing agents: | CO ₂ , sand, extinguishing powder. Do not use water. Water. |
| Special hazards caused by the material, its products of combustion or flue gases: | Spontaneously flammable in air. Can be released in case of fire: Carbon monoxide and carbon dioxide Phosphorus oxides Hydrogen phosphide |
| Protective equipment: | Wear self-contained breathing apparatus. Wear full protective suit. |

6. ACCIDENTAL RELEASE MEASURES

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| Person-related safety precautions: | Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Keep away from ignition sources |
| Measures for environmental protection: | Do not allow material to be released to the environment without proper governmental permits. |
| Measures for cleaning/collecting: | Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. Dispose of contaminated material as waste according to item 13. Ensure adequate ventilation. Keep away from ignition sources. |

7. HANDLING AND STORAGE

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| Handling Information for safe handling: | Handle under dry protective gas. Keep containers tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace. |
| Information about protection against explosions and fires: | Keep ignition sources away - Do not smoke. Substance/product is auto-flammable. |
| Storage Requirements to be met by storerooms and containers: Information about storage in one common storage facility: Further information about storage conditions: | No special requirements. Store away from air. Store away from oxidizing agents. Store under dry inert gas. Avoid contact with air / oxygen. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Store in a locked cabinet or with access restricted to technical experts or their assistants. |

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| Additional information about design of technical systems: | Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. |
| Components with critical values that require monitoring at the workplace: | Not required. |
| Personal protective equipment General protective and hygienic measures: | The usual precautionary measures should be adhered to in handling the chemicals. Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work. Avoid contact with the eyes and skin. |
| Breathing equipment: | Use breathing protection with high concentrations. |
| Eye protection: | Safety glasses Tightly sealed safety glasses. Full face protection |
| Face protection: | Face protection |
| Body protection: | Protective work clothing. |

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

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| Form: | Liquid |
| Colour: | Colourless |
| Smell: | Pungent |

Change in condition

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| Melting point/Melting range: | Not determined |
| Boiling point/Boiling range: | 176-178°C |
| Sublimation temperature / start: | Not determined |

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| Flash point: | Not applicable |
| Not determined | |
| Ignition temperature: | Not determined |
| Decomposition temperature: | Not determined |
| Self-inflammability: | Spontaneously flammable in air. |
| Critical values for explosion: | |
| Lower: | Not determined |
| Upper: | Not determined |
| Steam pressure: | Not determined |
| Density at 20°C: | 0.839g/cm ³ |

10. STABILITY AND REACTIVITY

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| Thermal decomposition / conditions to be avoided: | No decomposition if used and stored according to specifications. |
| Materials to be avoided: | Air Water/moisture Oxidizing agents |
| Dangerous reactions: | Spontaneously flammable in air. |
| Dangerous products of decomposition: | Carbon monoxide and carbon dioxide Phosphorus oxides (e.g. P ₂ O ₅) Hydrogen phosphide |

11. TOXICOLOGICAL INFORMATION

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| Acute toxicity: | |
| Primary irritant effect: on the skin: | Corrosive effect on skin and mucous membranes. Irritant for skin and mucous membranes. |

Additional toxicological information: Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.
To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.
No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

12. ECOLOGICAL INFORMATION

Additional ecological information

General notes: Water hazard class 1 (Self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
Do not allow material to be released to the environment without proper governmental permits.

13. DISPOSAL CONSIDERATIONS

Product

Recommendation: Consult state, local or national regulations for proper disposal.
Hand over to disposers of hazardous waste.
Must be specially treated under adherence to official regulations.

Uncleaned packagings

Recommendation: Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)

Class: 4.2 (S1) Substances liable to spontaneous combustion.
Kemler Number: 333
UN-Number: 2845
Packaging group: I
Label: 4.2
Designation of goods: 2845 PYROPHORIC LIQUID, ORGANIC, N.O.S. (Triisopropylphosphine)
Limited quantities (LQ) LQ0
Transport category 0
Tunnel restriction code B/E

Maritime transport IMDG/GGVSea:

Class: 4.2
UN Number: 2845
Label: 4.2
Packaging group: I
Marine pollutant: No
Correct technical name: PYROPHORIC LIQUID, ORGANIC, N.O.S. (Triisopropylphosphine)

Air transport ICAO-TI and IATA-DGR:

Class: 4.2
UN/ID Number: 2845
Label: 4.2
Packaging group: I
Correct technical name: PYROPHORIC LIQUID, ORGANIC, N.O.S. (Triisopropylphosphine)

UN "Model Regulation": UN2845, PYROPHORIC LIQUID, ORGANIC, N.O.S., 4.2, I

15. REGULATORY INFORMATION

Designation according to EC guidelines

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| Risk phrases: | 1/ | Spontaneously flammable in air. |
| | 34 | Causes burns. |
| Safety phrases: | 26 | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |
| | 36/37/39 | Wear suitable protective clothing, gloves and eye/face protection. |
| | 45 | In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). |
| National regulations | | |
| Information about limitation of use: | | For use only by technically qualified individuals. Employment restrictions concerning young persons must be observed. |
| Water hazard class: | | Water hazard class 1 (Self-assessment): slightly hazardous for water. |

16. OTHER INFORMATION

Warranty

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Intatrade Chemicals GmbH shall not be held liable for any damage resulting from handling or from contact with the above product.