

Material Safety Data Sheet

Triphenylphosphine

MSDS# 36925

Section 1 - Chemical Product and Company Identification

MSDS Name: Triphenylphosphine

Catalog Numbers: AC140420000, AC140420010, AC140420250, AC140422500, NC9773236, NC9774381

Synonyms: Triphenylphosphane; Triphenylphosphorus.

Company Identification:

Acros Organics BVBA  
Janssen Pharmaceuticalaan 3a  
2440 Geel, Belgium

Company Identification: (USA)

Acros Organics  
One Reagent Lane  
Fair Lawn, NJ 07410

For information in the US, call:

800-ACROS-01

For information in Europe, call:

+32 14 57 52 11

Emergency Number, Europe:

+32 14 57 52 99

Emergency Number US:

201-796-7100

CHEMTREC Phone Number, US:

800-424-9300

CHEMTREC Phone Number, Europe:

703-527-3887

Section 2 - Composition, Information on Ingredients

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CAS#: 603-35-0  
Chemical Name: Triphenylphosphine  
%: 99-100  
EINECS#: 210-036-0

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Hazard Symbols:



XN N



Risk Phrases:

22 43 53

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Warning! May cause allergic skin reaction. Dangerous for the environment. Harmful if swallowed. May cause central nervous system effects. May cause eye, skin, and respiratory tract irritation. Target Organs: Skin.

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. May be harmful if absorbed through the skin.

Ingestion: Harmful if swallowed. May cause effects similar to those for inhalation exposure.

Inhalation: May cause respiratory tract irritation. May cause dyspnea (difficult or labored breathing). May cause neurotoxic effects including paresthesia. Harmful if inhaled.

Chronic: No information found.

Section 4 - First Aid Measures

Eyes: Get medical aid. Immediately flush eyes with plenty of water for at least 15 minutes.

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Get medical aid immediately. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

#### Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

Autoignition Temperature: Not available

Flash Point: 181 deg C ( 357.80 deg F)

Explosion Limits: Not available

Lower:

Explosion Limits: Not available

Upper:

NFPA Rating: health: 2; flammability: 1; instability: 0;

#### Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

#### Section 7 - Handling and Storage

Handling: Minimize dust generation and accumulation. Avoid breathing dust, mist, or vapor. Avoid contact with eyes, skin, and clothing. Use with adequate ventilation.

Storage: Store in a cool, dry place. Store in a tightly closed container.

#### Section 8 - Exposure Controls, Personal Protection

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Triphenylphosphine	none listed	none listed	none listed

OSHA Vacated PELs: Triphenylphosphine: None listed

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Personal Protective Equipment

Eyes: Wear chemical splash goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear a chemical apron.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

#### Section 9 - Physical and Chemical Properties

Physical State: Solid  
Color: white  
Odor: characteristic odor  
pH: Not available  
Vapor Pressure: 5 mm Hg @ 20 deg C  
Vapor Density: 9  
Evaporation Rate: Not available  
Viscosity: Not available  
Boiling Point: 377 deg C @ 760.00mm Hg ( 710.60°F)  
Freezing/Melting Point: 80 - 81 deg C

Decomposition Temperature: Not available  
Solubility in water: practically insoluble

Specific Gravity/Density:  
Molecular Formula: C18H15P  
Molecular Weight: 262.28

#### Section 10 - Stability and Reactivity

Chemical Stability: Stable at room temperature in closed containers under normal storage and handling conditions.

Conditions to Avoid: Dust generation.

Incompatibilities with Other Materials  
Not available

Hazardous Decomposition Products  
Phosphine, carbon monoxide, oxides of phosphorus, carbon dioxide.

Hazardous Polymerization  
Will not occur.

#### Section 11 - Toxicological Information

RTECS#: CAS# 603-35-0: SZ3500000

RTECS:  
**CAS# 603-35-0:** Draize test, rabbit, eye: 500 mg/24H Mild;  
Draize test, rabbit, skin: 500 mg/24H Mild;  
Inhalation, rat: LC50 = 1135 ppm/4H;  
Oral, mouse: LD50 = 1 gm/kg;  
Oral, rat: LD50 = 700 mg/kg;  
Skin, rabbit: LD50 = >5 gm/kg;

Carcinogenicity: Triphenylphosphine - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other: See actual entry in RTECS for complete information.

#### Section 12 - Ecological Information

Ecotoxicity: Not available

#### Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

#### Section 14 - Transport Information

#### US DOT

Shipping Name: ORGANOPHOSPHORUS COMPOUND, SOLID, TOXIC, (Triphenyl phosphine)

Hazard Class: 6.1

UN Number: UN3464

Packing Group: II

Canada TDG

Shipping Name: ORGANOPHOSPHORUS COMPOUND, SOLID, TOXIC, (Triphenyl phosphine)

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## Section 15 - Regulatory Information

### European/International Regulations

#### European Labeling in Accordance with EC Directives

Hazard Symbols: XN N

Risk Phrases:

R 22 Harmful if swallowed.

R 43 May cause sensitization by skin contact.

R 53 May cause long-term adverse effects in the aquatic environment.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

#### WGK (Water Danger/Protection)

CAS# 603-35-0: 1

### Canada

CAS# 603-35-0 is listed on Canada's DSL List

Canadian WHMIS Classifications: D2B, D1B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 603-35-0 is not listed on Canada's Ingredient Disclosure List.

### US Federal

#### TSCA

CAS# 603-35-0 is listed on the TSCA

Inventory.

### Section 16 - Other Information

MSDS Creation Date: 9/02/1997

Revision #6 Date 7/20/2009

Revisions were made in Sections: General revision.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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