Gold, chloro(triphenylphosphine)- (cas 14243-64-2) MSDS

1 Identification of substance:
   Product details:
   Product name: Chloro(triphenylphosphine)gold (I)

2 Composition/Data on components:
   Chemical characterization:
   Description: (CAS#)
   Chloro(triphenylphosphine)gold (I) (CAS# 14243-64-2); 100%
   Identification number(s):
   EINECS Number: 238-117-6

3 Hazards identification
   Hazard description:

   Xi Irritant

   Information pertaining to particular dangers for man and
   environment
   R 36/38 Irritating to eyes and skin.
   Classification system
   HMIS ratings (scale 0-4)
   (Hazardous Materials Identification System)
   HEALTH 1 Health (acute effects) = 1
   Flammability = 1
   FIRE 1
   Reactivity = 1
   REACTIVITY 1

4 First aid measures
   After inhalation
   Supply fresh air. If required, provide artificial respiration. Keep
   patient warm.
   Seek immediate medical advice.
   After skin contact
   Immediately wash with water and soap and rinse thoroughly.

5 Fire fighting measures

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acc. to OSHA and ANSI

Product name: Chloro(triphenylphosphine)gold (I)
Seek immediate medical advice.

After eye contact
Rinse opened eye for several minutes under running water. Then
consult a doctor.
After swallowing Seek immediate medical advice.
Suitable extinguishing agents
Use carbon dioxide, extinguishing powder or foam. Water may be
ineffective but may be used for cooling exposed containers.

Special hazards caused by the material, its products of combustion
or resulting gases:
In case of fire, the following can be released:
Carbon monoxide and carbon dioxide
Hydrogen chloride (HCl)
Phosphorus oxides

Protective equipment:
Wear self-contained respirator.
Wear fully protective impervious suit.

6 Accidental release measures
Person-related safety precautions:
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation

Measures for environmental protection:
Do not allow material to be released to the environment without
proper governmental permits.

Measures for cleaning/collecting: Pick up mechanically.

Additional information:
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage
Handling
Information for safe handling:
Keep container tightly sealed.
Store in cool, dry place in tightly closed containers.
Ensure good ventilation at the workplace.

Information about protection against explosions and fires:
No special measures required.

Storage
Requirements to be met by storerooms and receptacles:
No special requirements.

Information about storage in one common storage facility:
Store away from oxidizing agents.

Further information about storage conditions:
Keep container tightly sealed.

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Store in cool, dry conditions in well sealed containers.

8 Exposure controls and personal protection
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 limit values that require monitoring at the
workplace:
Not required.

Additional information: No data

Personal protective equipment

General protective and hygienic measures
The usual precautionary measures for handling chemicals should be
followed.
Keep away from foodstuffs, beverages and feed.
Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Breathing equipment: Use suitable respirator when high concentrations are present.

Protection of hands: Impervious gloves
Eye protection: Safety glasses
Body protection: Protective work clothing.

9 Physical and chemical properties:
General Information
Form: Powder
Color: Light yellow
Odor: Odorless
Change in condition
Melting point/Melting range: Not determined
Boiling point/Boiling range: Not determined
Sublimation temperature / start: Not determined
Flash point: Not applicable
Ignition temperature: Not determined
Decomposition temperature: Not determined
Danger of explosion: Product does not present an explosion hazard.
Explosion limits:
Lower: Not determined
Upper: Not determined
Vapor pressure: Not determined

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Density: Not determined
Solubility in / Miscibility with Water: Not determined

10 Stability and reactivity
Thermal decomposition / conditions to be avoided:
Decomposition will not occur if used and stored according to specifications.
Materials to be avoided: Oxidizing agents
Dangerous reactions: No dangerous reactions known
Dangerous products of decomposition:
Carbon monoxide and carbon dioxide
Hydrogen chloride (HCl)
Phosphorus oxides (e.g. P2O5)

11 Toxicological information
Acute toxicity:
Primary irritant effect:
on the skin: Irritant to skin and mucous membranes.
on the eye: Irritating effect.
Sensitization: No sensitizing effects known.
Subacute to chronic toxicity:
Organic phosphorus compounds exhibit a wide range of toxicity. Most are skin and eye irritants with the more volatile also being respiratory irritants. Those exhibiting substantial water reactivity will have stronger irritating properties and may be corrosive enough to cause severe burns. Some organic phosphorus compounds are cholinesterase inhibitors. Symptoms associated with these include muscle twitching, convulsions, flaccid paralysis,
coma, respiratory failure. They can be highly paralytic.
Gold compounds may cause irritation to the eyes and respiratory tract. Aplastic anemia may result from damage to the blood forming organs. Gold has caused tumors and reproductive effects in laboratory animals via implant, intraperitoneal and subcutaneous routes.

Additional toxicological information:
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:
General notes:
Do not allow material to be released to the environment without proper governmental permits.

D Material Safety Data Sheet
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13 Disposal considerations
Product:
Recommendation
Consult state, local or national regulations to ensure proper disposal.
Uncleaned packagings:
Recommendation:
Disposal must be made according to official regulations.

14 Transport information
Not a hazardous material for transportation.
DOT regulations:
Hazard class: None
Land transport ADR/RID (cross-border)
ADR/RID class: None
Maritime transport IMDG:
IMDG Class: None
Air transport ICAO-Ti and IATA-DGR:
ICAO/IATA Class: None

Transport/Additional information:
Not dangerous according to the above specifications.

15 Regulations
Product related hazard informations:
Hazard symbols:
Xi Irritant
Risk phrases:
36/38 Irritating to eyes and skin.
Safety phrases:
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
National regulations
This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. Some or all of the components of this product are not listed on the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). Information about limitation of use:
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