

[1,3-Bis(diphenylphosphino)propane]dichloronickel(II) 15629-92-2 MSDS

Section 1 - Chemical Product MSDS Name:[1 3-Bis(Diphenylphosphino)Propane]Nickel (II)

Name :	[1 3-Bis(Diphenylphosphino)Propane]Nickel (II) Chloride Material Safety Data Sheet
Synonym:	None
CAS :	15629-92-2

Chloride Material Safety Data Sheet

Synonym:None

Section 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	conten
15629-92-2	[1, 3-Bis(Diphenylphosphino)Propane]Nic	ca. 10

Hazard Symbols: XN

Risk Phrases: 36/37/38 40 42/43

Section 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Irritating to eyes, respiratory system and skin. Limited evidence of a carcinogenic effect. May cause sensitization by inhalation and skin contact. The toxicological properties of this material have not been fully investigated. Cancer suspect agent. Moisture sensitive.

Potential Health Effects

Eye:

Causes eye irritation.

Skin:

Causes skin irritation.

Ingestion:

May cause gastrointestinal irritation with nausea, vomiting and diarrhea. The toxicological properties of this substance have not been fully investigated.

Inhalation:

Causes respiratory tract irritation. The toxicological properties of this substance have not been fully investigated. Inhalation of dust may cause respiratory tract irritation.

Chronic:

May cause cancer according to animal studies. Symptoms of overexposure to nickel can cause sensitization, dermatitis, allergic asthma and pneumonitis.

Section 4 - FIRST AID MEASURES

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin:

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

Ingestion:

If victim is conscious and alert, give 2-4 cupfuls of milk or water.

Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation:

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

Notes to Physician:

Treat symptomatically and supportively.

Antidote: None reported.

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 agent most appropriate to extinguish fire. Do NOT get water inside containers. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Section 6 - ACCIDENTAL RELEASE MEASURES

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

Spills/Leaks:

Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Provide ventilation. Do not get water inside containers.

Section 7 - HANDLING and STORAGE

Handling:

Wash thoroughly after handling. Use only in a well-ventilated area.

Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Use with adequate ventilation. Do not allow contact with water. Wash clothing before reuse. Keep from contact with moist air and steam.

Storage:

Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Store protected from moisture.

Section 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits CAS# 15629-92-2: United States OSHA: 1 mg/m³ TWA (as Ni) (listed under Nickel sol compounds).

Belgium - TWA: (listed as nickel soluble compounds): 0.1 mg/m³ VL (as Ni) Malaysia: (listed as nickel soluble compounds): 0.1 mg/m³ TWA (inhalable fraction, as Ni) Netherlands: (listed as nickel soluble compounds): 0.1 mg/m³ MAC Ni Spain: (listed as nickel soluble compounds): 0.1 mg/m³ VLA-ED (as Personal Protective Equipment Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use. 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: Powder

Color: red-orange

Odor: Not available.

pH: Not available.

Vapor Pressure: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: 213 deg C dec

Autoignition Temperature: Not available.

Flash Point: Not available.

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature:

Solubility in water:

Specific Gravity/Density:

Molecular Formula: C₂₇H₂₆Cl₂NiP₂

Molecular Weight: 542.04

Section 10 - STABILITY AND REACTIVITY

Chemical Stability:

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

Thermal decomposition may produce toxic fumes of phosphorous oxides and/or phosphine.

Conditions to Avoid:

Incompatible materials, dust generation, moisture, excess heat, exposure to moist air or water.

Incompatibilities with Other Materials:

Moisture.

Hazardous Decomposition Products:

Hydrogen chloride, carbon monoxide, oxides of phosphorus, carbon dioxide, nickel oxide.

Hazardous Polymerization: Has not been reported.

Section 11 - TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 15629-92-2 unlisted.

LD50/LC50:

Not available.

Carcinogenicity:

[1,3-Bis(Diphenylphosphino)Propane]Nickel(II) Chloride - California: carcinogen, initial date 5/7/04
(listed as Nickel compound NTP: Known carcinogen (listed as Nickel compounds)).

IARC: Group 1 carcinogen (listed as Nickel compounds).

Section 12 - ECOLOGICAL INFORMATION

Other No information available.

Section 13 - DISPOSAL CONSIDERATIONS

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

Section 14 - TRANSPORT INFORMATION

IATA

Not regulated as a hazardous material.

IMO

Not regulated as a hazardous material.

RID/ADR

Not regulated as a hazardous material.

Section 15 - REGULATORY INFORMATION

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN

Risk Phrases:

R 36/37/38 Irritating to eyes, respiratory system
and skin.

R 40 Limited evidence of a carcinogenic effect.

R 42/43 May cause sensitization by inhalation and
skin contact.

Safety Phrases:

S 22 Do not breathe dust.

S 24 Avoid contact with skin.

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.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 15629-92-2: No information available.

Canada

None of the chemicals in this product are listed on the DSL/NDSL list.

CAS# 15629-92-2 is not listed on Canada's Ingredient Disclosure List.

US FEDERAL

TSCA

CAS# 15629-92-2 is not listed on the TSCA inventory.

It is for research and development use only.

SECTION 16 - ADDITIONAL INFORMATION

N/A
