



Safety Data Sheet

Version 7.0
Revision Date: 07/02/2019

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: **Tris(triphenylphosphine)rhodium(I) chloride**
Product number: Wilkinson
CAS registry number: 14694-95-2
Product use: Laboratory chemicals, Synthesis of substances.
Supplier / Manufacturer: Polymer Source, Inc.
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2. HAZARDS IDENTIFICATION

Emergency overview: WHMIS classification: Not WHMIS controlled.
GHS classification: Not a hazardous substance or mixture.
GHS Label elements, including precautionary statements: Not a hazardous substance or mixture.
Hazards not otherwise classified (HNOC) or not covered by GHS: None.
Potential health effects: Inhalation: May be harmful if inhaled.
Skin: May be harmful if absorbed through skin.
Eyes: May cause eye irritation.
Ingestion: May be harmful if swallowed.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Synonyms: Rhodium(I) tris(triphenylphosphine) chloride; Wilkinson's catalyst; $\text{RhCl}(\text{PPh}_3)_3$
Formula: $\text{C}_{54}\text{H}_{45}\text{ClP}_3\text{Rh}$
Molecular weight: 925.22 g/mol
CAS-No.: 14694-95-2
EC-No.: 238-744-5
Hazardous components: Tris(triphenylphosphine)rhodium (I) chloride
Concentration: 90–100 wt%

4. FIRST AID MEASURES

General advice:	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.	
Description of first aid measures:		
	If inhaled:	If breathed in, move person into fresh air. If not breathing, give artificial respiration.
	In case of skin contact:	Wash off with soap and plenty of water.
	In case of eye contact:	Flush eyes with water as a precaution.
	If swallowed:	Never give anything by mouth to an unconscious person. Rinse mouth with water.
Most important symptoms and effects, both acute and delayed:	The most important known symptoms and effects are described in the labeling (see section 2) and/or in section 11.	
Indication of any immediate medical attention and special treatment needed:	No data available.	

5. FIRE-FIGHTING MEASURES

Conditions of flammability:	Not flammable or combustible.	
Suitable extinguishing media:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.	
Special protective equipment for firefighters:	Wear self contained breathing apparatus for firefighting if necessary.	
Hazardous combustion products:	Hazardous decomposition products formed under fire conditions: Carbon oxides, Hydrogen chloride gas, Phosphorous oxides, Rhodium oxides.	
Explosion data:	Sensitivity to mechanical impact:	no data available
	Sensitivity to static discharge:	no data available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:		
Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.		
Environmental precautions:	Do not let product enter drains.	
Methods and materials for containment and cleaning up:	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.	

7. HANDLING AND STORAGE

Precautions for safe handling:	Avoid formation of dust and aerosols.
	Provide appropriate exhaust ventilation at places where dust is formed.
	Normal measures for preventive fire protection.
Conditions for safe storage:	Keep container tightly closed in a dry and well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters:

<i>Components</i>	<i>Value</i>	<i>Control parameters</i>	<i>Basis</i>	<i>Remarks</i>
Tris(triphenylphosphine) rhodium (I) chloride (CAS-No.: 14694-95-2)	TWA	1.000000 mg/m ³	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)	Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required.
	TWAEV	0.100000 mg/m ³	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants	
	TWA	0.100000 mg/m ³	Canada. British Columbia OEL	
	STEL	0.300000 mg/m ³	Canada. British Columbia OEL	
	TWA	1 mg/m ³	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)	Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required
	TWAEV	0.1 mg/m ³	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants	
	TWA	0.1 mg/m ³	Canada. British Columbia OEL	
	STEL	0.3 mg/m ³	Canada. British Columbia OEL	
	TWA	1.000000 mg/m ³	USA. ACGIH Threshold Limit Values (TLV)	
	TWA	1 mg/m ³	USA. ACGIH Threshold Limit Values (TLV)	

Exposure controls:

Appropriate engineering controls: General industrial hygiene practice.

Personal protective equipment: No special environmental precautions required.

Personal protective equipment:

- Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
- Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
- Eye protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
- Skin and body protection: Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
- Specific engineering controls: Use mechanical exhaust or laboratory fumehood to avoid exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Form:	no data available
	Colour:	no data available
Safety data:	pH:	no data available
	Melting point / Freezing point:	no data available
	Boling point:	no data available
	Flash point:	no data available
	Ignition temperature:	no data available
	Auto-ignition temperature:	no data available
	Lower explosion limit:	no data available
	Upper explosion limit:	no data available
	Vapour pressure:	no data available
	Density:	no data available
	Water solubility:	no data available
	Partition coefficient: n-octanol/water:	no data available
	Relative vapour density:	no data available

Odour:	no data available
Odour threshold:	no data available
Evaporation rate:	no data available

10. STABILITY AND REACTIVITY

Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	no data available
Conditions to avoid:	no data available
Materials to avoid:	Strong oxidizing agents.
Hazardous decomposition products:	Hazardous decomposition products formed under fire conditions: Carbon oxides, Hydrogen chloride gas, Phosphorous oxides (oxides of phosphorus), Rhodium oxides. Other decomposition products: no data available

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	Oral LD50:	no data available
	Inhalation LC50:	no data available
	Dermal LD50:	no data available
	Other information on acute toxicity:	no data available
Skin corrosion/irritation:	no data available	
Serious eye damage/eye irritation.	no data available	
Respiratory or skin sensitization:	no data available	
Germ cell mutagenicity:	no data available	
Carcinogenicity:	IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
	ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
Reproductive toxicity:	no data available	
Teratogenicity:	no data available	
Specific target organ toxicity:	Single exposure (GHS):	no data available
	Repeated exposure (GHS):	no data available
Aspiration hazard:	no data available	
Potential health effects:	Inhalation:	May be harmful if inhaled.
	Ingestion:	May be harmful if absorbed through skin.
	Skin:	May cause eye irritation.
	Eyes:	May be harmful if swallowed.

Synergistic effects: no data available

Additional information: RTECS: not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

Toxicity: no data available

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

Other adverse effects: no data available

13. DISPOSAL CONSIDERATIONS

Product: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging: Dispose of as unused product.

14. TRANSPORT INFORMATION

TDG (Canada): Not dangerous goods.

DOT (US): Not dangerous goods.

IMDG: Not dangerous goods.

IATA: Not dangerous goods.

15. REGULATORY INFORMATION

Classification: Not a hazardous substance or mixture.

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

16. OTHER INFORMATION

Date of the latest revision: 7 February 2019

Further information: 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. Polymer Source, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. See www.polymersource.ca for additional terms and conditions of sale.