SECTION 1: Product Identification

Chemical Name: Dichlorotris(triphenylphosphine)ruthenium (II), 99%

Product Number: 405

CAS Registry

25529-49-4

Number:

Formula:

RuCl2(P(C6H5)3)3

EINECS Number:

239-569-7

Chemical Family:

metal-phosphine complexes

Synonym:

Tris(triphenylphosphine)dichlororutherium (II)

SECTION 2: Composition and Information on Ingradients

Ingredient CAS Number Percent ACGIH (TWA) OSHA (PEL)

Title Compound 15529-49-4 100 no data no data

SECTION 3: Hazards Identification

Emergency Overview: No particular hazard associated with this material.

Primary Routes of

Exposure:

Ingestion

Eye Contact: May cause slight to mild irritation of the eyes

Skin Contact: May Gause slight to mild irritation of the skin.

Inhalation: May be irritating to the nose, mucous membranes and respiratory tract

Ingestion: Ingestion on the physiological effects of ingestion.

Acute Health Effects: May be irritating to skin, eyes and respiratory tract.

Chronic Health

No information available on long-term chronic effects

NTP: No

IARC: No

OSHA: No

SECTION 4: First Aid Measures

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Eye Exposure: Immediately flush the eyes with copious amounts of water for at least 10-15 minutes.

A victim may need assistance in keeping their eye lids open. Get immediate medical

attention.

Skin Exposure: 'wash the affected area with water. Remove contaminated clothes if necessary.

Seek medical assistance if irritation persists.

Remove the victim to fresh air. Closely monitor the victim for signs of respiratory

problems, such as difficulty in breathing, coughing, weezing, or pain. In such cases

seek immediate medical assistance.

Seek medical attention immediately. Keep the victim calm. Give the victim water Ingestion:

(only if conscious). Induce vomiting only if cirected by medical personnel.

SECTION 5: Fire Fighting Measures

Flash Foint: not applicable

Autoignition

Inhalation:

none

7 emperature:

Explosion Limits: none

Extinguishing

Medium:

carbon dioxide, foam or dry powder

Special Fire Fighting

Procedures:

If this product is involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective

clothing.

Hazardous

Combustion and

Decomposion

If involved in a fire this material may emit irritating fumes.

Products:

Unusual Fire or

Explosion Hazards:

No unusual fire or explosion hazards.

SECTION 6: Accidental Release Measures

Spill and Leak

Procedures.

Small spills can be mixed with vermiculite or sodium carbonate and swept up.

SECTION 7: Handling and Storage

Handling and

Storage:

Store in a tightly sealed container. Keep away from heat and direct sunlight.

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SECTION 8: Exposure Controls and Personal Protection

Always wear approved safety glasses when handling a chemical substance in the Eye Protection:

laboratory.

Skin Protection: Wear protective clothing and gloves.

Ventilation: If possible, handle the material in an efficient fume hood

If ventilation is not available a respirator should be won. The use of reapirators

Respirator: requires a Respiratory Protection Program to be in compliance with 29 CFR

1910.134.

Additional Protection: No additional protection required.

SECTION 9: Physical and Chemical Properties

Cotor and Form: black xtl.

Molecular Weight: 958.85

Melting Point: no data

Boiling Point: no data

Vapor Pressure: no data

Specific Gravity: no data

Odor: none

Solubility in Water: insoluble

SECTION 10: Stability and Reactivity

Stability: air sensitive

Hazardous

Polymerization:

Conditions to Avaid: prolonged contact with air.

Incompatibility: strong oxidizing agents

Decomposition carbon dioxide, carbon monoxide, organic fumes, hydrogen chloride, ruthenium

Procues compounds.

SECTION 11: Toxicological Information

RTECS Data: No information available in the RTECS files.

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Carcinogenic Effects: No data available

Mutagenic Effects: No data available

Tetratogenic Effects: No data available

SECTION 12: Ecological Information

Ecological Information:

No information available

SECTION 13, Disposal Considerations

Disposal. Dispose of according to local, state and federal regulations.

SECTION 14: Transportation

Snipping Name

(CFR):

Non-hazardous

Hazard Class (CFR): NA

Additional Hazard

Class (CFR):

NA

Packaging Group

(CFR):

NA

UN ID Number (CFR): NA

Shipping Name

(IATA):

Non-hazardous

Hazard Class (IATA):

Additional Hazard

Class (IATA):

NN

Packaging Group

NA

(IATA):

γN

UN ID Number

NA

(IATA):

SECTION 15: Regulatory Information

TSCA. Not listed in the TSCA inventory.

SARA (Title 313): Title compound not listed.

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Second Ingredient: none Third Ingredient: none

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