SIGMA-ALDRICH

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Material Safety Data Sheet

Version 4.2 Revision Date 06/02/2011 Print Date 12/06/2011

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Palladium(II) chloride

Product Number 205885 Brand Aldrich

Supplier Sigma-Aldrich

3050 Spruce Street SAINT LOUIS MO 63103

USA

Telephone +1 800-325-5832

Fax +1 800-325-5052 Emergency Phone # (For (314) 776-6555

both supplier and

manufacturer) Preparation Information Sigma-Aldrich Corporation

Product Safety - Americas Region

1-800-521-8956

2. HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards

Toxic by ingestion, Skin sensitiser

GHS Classification

Acute toxicity, Oral (Category 3)

Skin irritation (Category 3) Skin sensitization (Category 1)

GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)

H301 Toxic if swallowed.

H316 Causes mild skin irritation. H317 May cause an allergic skin reaction.

Precautionary statement(s)

P280

Wear protective gloves.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.

HMIS Classification

Health hazard: 2 Flammability: 0 Physical hazards: 0

NFPA Rating

Health hazard: 3 Fire: 0 Reactivity Hazard:

Potential Health Effects

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Inhalation Skin

May be harmful if inhaled. May cause respiratory tract irritation. May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation. Ingestion Toxic if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula Molecular Weight : CloPd : 177.33 g/mol

231-596-2

CAS-No. EC-No. Index-No. Concentration Palladium dichloride 7647-10-1

4. FIRST AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician,

In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital, Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products

Hazardous decomposition products formed under fire conditions, - Hydrogen chloride gas

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental precautions

Prevent further leakage or spillage if safe to do so. 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 contact with skin and eyes. 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.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (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.

Hyglene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form solid

Colour no data available

Safely data

no data available

Meltina Melting point/range: 678 - 680 °C (1,252 - 1,256 °F) - lit.

point/freezing point

Boiling point

no data available

Flash point no data available

fanition temperature no data available

Autoignition temperature no data available

Lower explosion limit

no data available

Upper explosion limit no data available

Vapour pressure no data available

Density 4 g/cm3 at 25 °C (77 °F)

Water solubility no data available

Partition coefficient:

no data available

n-octanol/water

Relative vapour no data available

density Odour

no data available

Odour Threshold no data available

Evaporation rate no data available

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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

no data available

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Hydrogen chloride gas

Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral LD50

LD50 Oral - rat - 2,704 mg/kg

LD50 Oral - mouse - > 1,000 mg/kg

LD50 Oral - rat - 200 mg/kg

Inhalation LC50

no data available

Dermal LD50

no data available

Other information on acute toxicity

no data available

Skin corrosion/irritation

Skin - rabbit - Mild skin irritation - 24 h - Draize Test

Serious eve damage/eve irritation

no data available

Respiratory or skin sensitization

May cause allergic skin reaction.

Germ cell mutagenicity

Genotoxicity in vitro - Human - lymphocyte

DNA inhibition

Carcinogenicity

Carcinogenicity - mouse - Oral

Tumorigenic:Carcinogenic by RTECS criteria. Lungs, Thorax, or Respiration:Tumors. Blood:Tumors.

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.

NTP:

IARC:

No component of this product present at levels greater than or equal to 0.1% is identified as a known or

anticipated carcinogen by NTP.

OSHA:

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

Reproductive toxicity - rat - Intratesticular

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Paternal Effects: Spermatogenesis (including genetic material, sperm morphology, motility, and count). Paternal Effects:

Testes, epididymis, sperm duct.

Reproductive toxicity - mouse - Subcutaneous

Paternal Effects: Testes, epididymis, sperm duct.

no data avaitable

Teratogenicity

Specific target organ toxicity - single exposure (Globally Harmonized System)

no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

no data available

Aspiration hazard

no data available

Potential health effects

Inhalation

May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion

Toxic if swallowed.

Skin

May be harmful if absorbed through skin. May cause skin irritation.

May cause eye irritation. Eyes

Signs and Symptoms of Exposure

Contact with skin can cause:, Dermatitis, Altergic reactions

Synergistic effects

no data available

Additional information

RTECS: RT3500000

12. ECOLOGICAL INFORMATION

Toxicity

no data available

Persistence and degradability

no data available

Bloaccumulative potential

no data available

Mobility in soil

no data available

PBT and vPvB assessment

no data available

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

DOT (US)

UN number: 3288 Class; 6.1 Packing group: III

Proper shipping name: Toxic solid, inorganic, n.o.s. (Palladium dichloride)

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Marine pollutant: No

Poison Inhalation Hazard: No

IMDG

UN number: 3288 Class: 6.1

Packing group: III

EMS-No: F-A, S-A

Proper shipping name: TOXIC SOLID, INORGANIC, N.O.S. (Palladium dichloride)

Marine pollutant: No

UN number: 3288 Class: 6.1

Packing group: III

Proper shipping name: Toxic solid, inorganic, n.o.s. (Palladium dichloride)

15. REGULATORY INFORMATION

OSHA Hazards

Toxic by ingestion, Skin sensitiser

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

Palladium dichloride

CAS-No. 7647-10-1 Revision Date

New Jersey Right To Know Components

CAS-No.

Revision Date

Palladium dichloride

7647-10-1

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Further information

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