

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name : (Acetylacetonato)dicarbonylrhodium(I)

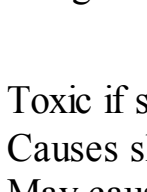
2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

According to Regulation (EC) No1272/2008
Acute toxicity, Oral (Category 3)
Skin irritation (Category 2)
Eye irritation (Category 2)
Skin sensitization (Category 1)
Specific target organ toxicity - single exposure (Category 3)

According to European Directive 67/548/EEC as amended.
Toxic if swallowed. Irritating to eyes, respiratory system and skin. May cause sensitization by skin contact. Risk of explosion if heated under confinement.

Label elements

Pictogram	
Signal word	Danger
Hazard statement(s)	
H301	Toxic if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
EUH044	Risk of explosion if heated under confinement.
Precautionary statement(s)	
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P280	Wear protective gloves.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Hazard symbol(s)	
T	Toxic
R-phrases(s)	
R25	Toxic if swallowed.
R36/37/38	Irritating to eyes, respiratory system and skin.
R43	May cause sensitization by skin contact.
R44	Risk of explosion if heated under confinement.
S-phrases(s)	
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Other hazards - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : Dicarbonyl-acetylacetonato-rhodium(I)
Dicarbonylrhodium(I) 2,4-pentanedionate
Rhodium(I) dicarbonyl acetylacetonate

Formula : C7H7O4Rh

Molecular Weight : 258,03 g/mol

CAS-No.	EC-No.	Classification	Concentration
Dicarbonyl-acetylacetonato-rhodium(I) 14874-82-9	238-947-9	-	-
		Acute Tox. 3; Skin Irrit. 2; Eye Irrit. 2; Skin Sens. 1; STOT SE 3, , H301, H315, H317, H319, H335, EUH044 T, R25 - R36/37/38 - R43 - R44	

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

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

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

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.

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. Store in cool place.

Air sensitive. Store under nitrogen.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

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

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 : dark green

Safety data

pH : no data available

Melting point : 154 - 156 °C - lit.

Boiling point : no data available

Flash point : no data available

Ignition temperature : no data available

Lower explosion limit : no data available

Upper explosion limit : no data available

Vapour pressure : 0,025 hPa at 20 °C

Water solubility : insoluble

10. STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Conditions to avoid

Exposure to air may affect product quality.

Materials to avoid

Strong oxidizing agents, Steel (all types and surface treatments), Aluminium

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Rhodium/rhodium oxides

Thermal decomposition

> 140 °C

11. TOXICOLOGICAL INFORMATION

Acute toxicity

LD50 Oral - rat - > 50 - 500 mg/kg

LD50 Dermal - rabbit - > 2.000 mg/kg

Skin corrosion/irritation

Skin - rabbit - Skin irritation

Serious eye damage/eye irritation

Eyes - rabbit - Eye irritation

Respiratory or skin sensitization

May cause sensitization by skin contact.

Germ cell mutagenicity

no data available

Carcinogenicity

IARC: No evidence of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Potential health effects

Inhalation : May be harmful if inhaled. Causes respiratory tract irritation.

Ingestion : Toxic if swallowed.

Skin : May be harmful if absorbed through skin. Causes skin irritation.

Eyes : Causes serious eye irritation. Causes serious eye irritation.

Signs and Symptoms of Exposure

May liberate 2,4-pentanedione upon decomposition. 2,4-Pentanedione has the following toxicological hazards: toxic, irritant, neurological hazard, teratogen, possible mutagen, target organ - thymus. In humans, 2,4-pentanedione is reported to cause contact dermatitis and contact urticaria.

Additional Information

RTECS: Not available

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

no data available

Other adverse effects

no data available

13. DISPOSAL CONSIDERATIONS

Product

Offer surplus and non-recyclable solutions to 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

ADR/RID

UN-Number: 3467 Class: 6.1 Packing group: III

Proper shipping name: ORGANOMETALLIC COMPOUND, TOXIC, SOLID, N.O.S. (Dicarbonyl-acetylacetonato-rhodium(I))

IMDG

UN-Number: 3467 Class: 6.1 Packing group: III

Proper shipping name: ORGANOMETALLIC COMPOUND, TOXIC, SOLID, N.O.S. (Dicarbonyl-acetylacetonato-rhodium(I))

Marine pollutant: No

IATA

UN-Number: 3467 Class: 6.1 Packing group: III

Proper shipping name: Organometallic compound, toxic, solid, n.o.s. (Dicarbonyl-acetylacetonato-rhodium(I))

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

16. OTHER INFORMATION

Text of H-code(s) and R-phrases(s) mentioned in Section 3

Acute Tox. : Acute toxicity

EUH044 : Risk of explosion if heated under confinement.

H301 : Toxic if swallowed.

H315 : Causes skin irritation.

H317 : May cause an allergic skin reaction.

H319 : Causes serious eye irritation.

H335 : May cause respiratory irritation.

Skin Irrit. : Skin irritation

Skin Sens. : Skin sensitization

STOT SE : Specific target organ toxicity - single exposure

T : Toxic

R25 : Toxic if swallowed.

R36/37/38 : Irritating to eyes, respiratory system and skin.

R43 : May cause sensitization by skin contact.

R44 : Risk of explosion if heated under confinement.

Further information

For R&D use only. Not for drug, household or other uses.

WARRANTY:

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. Lookchem shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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