

# SAFETY DATA SHEET

Creation Date 26-Sep-2009

Revision Date 22-Mar-2022

Revision Number 5

1. Identification

**Product Name** 

Rhodium(III) acetylacetonate

# Cat No.: RH2390

CAS No Synonyms 14284-92-5 TIPOF

Recommended Use Uses advised against Laboratory chemicals. Food, drug, pesticide or biocidal product use.

# Details of the supplier of the safety data sheet

Company Stanford Advanced Materials 23661 Birtcher Dr. Lake Forest, CA 92630 USA Tel: (949) 407-8904

Emergency Telephone Number

Tel: (949) 407-8904

# 2. Hazard(s) identification

# **Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity	Category 4
Acute dermal toxicity	Category 4
Acute Inhalation Toxicity - Dusts and Mists	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Reproductive Toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system.	

# Label Elements

Signal Word Warning

# **Hazard Statements**

Causes skin irritation Causes serious eye irritation May cause respiratory irritation Suspected of damaging fertility or the unborn child Harmful if swallowed, in contact with skin or if inhaled



#### Precautionary Statements Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Wear eye/face protection

# Response

IF exposed or concerned: Get medical attention/advice

# Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Skin

IF ON SKIN: Wash with plenty of soap and water

Call a POISON CENTER or doctor/physician if you feel unwell

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

# Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

# Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

# Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

# Disposal

Dispose of contents/container to an approved waste disposal plant

# Hazards not otherwise classified (HNOC)

None identified

# 3. Composition/Information on Ingredients

Component	CAS No	Weight %
Rhodium, tris(2,4-pentanedionato-O,O')-,	14284-92-5	<=100
(OC-6-11)-		

4. First-aid measures

General Advice	If symptoms persist, call a physician.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.
Most important symptoms and effects	None reasonably foreseeable.
Notes to Physician	Treat symptomatically
	E. Fire fighting measures

# 5. Fire-fighting measures

Suitable Extinguishing Media	Water spray. Carbon dioxide (CO 2). Dry chemical. Chemical foam.

Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

# Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

# Hazardous Combustion Products

None known.

# **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health 2	Flammability 1	Instability 0	Physical hazards N/A			
	6. Accidental re	lease measures				
Personal Precautions	Personal Precautions Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation.					
<b>Environmental Precautions</b>	Should not be released into the environment.					
Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Keep in suitable, closedUpcontainers for disposal.						
7. Handling and storage						
Handling			sure adequate ventilation. Do not nhalation. Avoid dust formation.			

#### Storage.

Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong oxidizing agents.

# 8. Exposure controls / personal protection

# Component ACGIH TLV OSHA PEL NIOSH IDLH Mexico OEL (TWA) Rhodium, TWA: 1 mg/m³ (Vacated) TWA: 0.1 mg/m³ IDLH: 100 mg/m³ tris(2,4-pentanedionato-O,O') TWA: 1 mg/m³ TWA: 0.1 mg/m³ TWA: 0.1 mg/m³

# <u>Legend</u>

ACGIH - American Conference of Governmental Industrial Hygienists OSHA - Occupational Safety and Health Administration NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.
Personal Protective Equipment	
Eye/face Protection	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 and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	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.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Phys	sical and chemical properties
Physical State	Solid
Appearance	Yellow
Odor	No information available
Odor Threshold	No information available
pH	Not applicable
Melting Point/Range	263 - 264 °C / 505.4 - 507.2 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C15 H21 O6 Rh
Molecular Weight	400.24
-	

		10. Stab	ility and rea	activity		
Reactive Hazard		None known, base	ed on information a	vailable		
Stability		Stable under normal conditions.				
Conditions to Avoid	I	Incompatible prod	ucts.			
Incompatible Materi	als	Strong oxidizing a	gents			
Hazardous Decomp	osition Products	None under norma	al use conditions			
Hazardous Polymer	ization	Hazardous polyme	erization does not o	occur.		
Hazardous Reaction	ıs	None under norma	al processing.			
		11. Toxico	ological info	ormation		
Acute Toxicity						
Component Informa Toxicologically Syn Products	Product Information Component Information Toxicologically Synergistic No information available Products Delayed and immediate effects as well as chronic effects from short and long-term exposure					
Irritation		Irritating to eyes, respiratory system and skin				
Sensitization		No information ava	ailable			
Carcinogenicity		The table below indicates whether each agency has listed any ingredient as a carcinogen.				
Component	CAS No	IARC NTP ACGIH OSHA Mexico				Mexico
Rhodium, tris(2,4-pentanedionat o-O,O')-, (OC-6-11)-	14284-92-5	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information ava	ailable			
Reproductive Effect	s	No information available.				
Developmental Effe	cts	No information available.				
Teratogenicity	No information available.					
STOT - single expos STOT - repeated exp		Respiratory system None known				
Aspiration hazard		No information available				
Symptoms / effects delayed	,both acute and	and No information available				
Endocrine Disrupto	ndocrine Disruptor Information No information available					
Other Adverse Effect	Other Adverse Effects The toxicological properties have not been fully investigated.					
12. Ecological information						
Ecotoxicity			<u>J </u>			

Ecotoxicity Do not empty into drains.

Persistence and Degradability	Insoluble in water
<b>Bioaccumulation/ Accumulation</b>	No information available.
Mobility	Is not likely mobile in the environment due its low water solubility.
	12 Disposal considerations

13. Disposal considerations Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information		
DOT	Not regulated	
DOT _TDG IATA_	Not regulated	
IATA	Not regulated	
IMDG/IMO	Not regulated	
15. Regulatory information		

# United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Rhodium, tris(2,4-pentanedionato-O,O')-, (OC-6-11)-	14284-92-5	Х	ACTIVE	-

# Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

# TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

Not applicable

# International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Rhodium, tris(2,4-pentanedionato-O,O')-, (OC-6-11)-	14284-92-5	-	Х	238-192-5	-	-	X	-	-	KE-30330

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

# U.S. Federal Regulations

Not applicable
See section 2 for more information
Not applicable
Not applicable
Not applicable

Health Administration

CERCLA	Not applicable			
California Proposition 65	This product does not contain any Proposition 65 chemicals.			
U.S. State Right-to-Know Regulations	Not applicable			
<b>U.S. Department of Transportation</b> Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N			
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.			
Other International Regulations				
Mexico - Grade	No information available			
Authorisation/Restrictions according to EU REACH				

# Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Rhodium, tris(2,4-pentanedionato-O,O')- , (OC-6-11)-	14284-92-5	Not applicable	Not applicable	Not applicable	Not applicable

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Rhodium, tris(2,4-pentanedionato-O,O')- , (OC-6-11)-	14284-92-5	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Stanford Advanced Materials Email: sales@samaterials.com www.samaterials.com
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Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage,

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