

Material Safety Data Sheet

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SECTION 1: Product Identification						
Product name	Bis(2,6,6-trimethylcyclohexadienyl)ruthenium					
CAS#	Not available					
Catalog #	0441050					
Chemical family	Cyclohexadienyl metal derivatives					
		CycloneAudienyl metal delivatives				
SECTION 2: Composition, Information on Ingredients						
Component		%	CAS#	EINECS #	Hazard Symbol	R-Phrase
Bis(2,6,6-trimethylcyclohexa- dienyl)ruthenium			NA	none	none	36/37/38
SECTION 3: Hazard Identification						
Emergency overview	Irritating to eyes, respiratory system and skin.					
Eye contact	Causes slight eye irritation.					
Skin contact	Causes slight to mild skin irritation.					
Inhalation	Irritating to the respiratory tract.					
Ingestion	May be harmful if swallowed.					
Chronic health effects	The toxicological properties have not been thoroughly investigated.				l.	
SECTION 4: First Aid Measures						
Eye exposure	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.					
Skin exposure	In case of contact, immediately wash skin with soap and copious amounts of				us amounts of	
_	water.					
Inhalation	Remove from exposure to fresh air. If not breathing give artificial respiration. If					
		breathing is difficult, give oxygen. Get medical aid immediately.				
Ingestion		If swallowed, wash out mouth with water provided person is conscious. Get medical aid immediately.				
	Medical	ara IIIII	iicaiuiciy.			
SECTION 5: Fire Fighting Measures						
General information	If this material is involved in a fire, fire fighters should be equipped with a					
					ained breathing appa	aratus and full
		protective clothing. Emits toxic fumes under fire conditions.				
Extinguishing media	Carbon	dioxide	, dry chemical	powder, or app	ropriate foam.	
SECTION 6: Accidental Release Measures						
Spill and leak	Small spills can be mixed with vermiculite or sodium carbonate or other inert					
procedures	material and swept up.					

SECTION 7: Handling and Storage					
Handling	Avoid contact with skin, eyes and clothing. Use this material under inert				
	material of nitrogen or argon.				
Storage	Store in a cool, dry place. Store in a tightly closed container under inert				
	atmosphere of nitrogen or argon.				
SECTION 8: Exposure Controls and Personal Protection					
Eye protection	Always wear approved safety glasses when handling a chemical substance in the				
	laboratory.				
Skin protection	Wear protective chemical-resistant gloves.				
Ventilation	Handle the material only in an efficient fume hood.				
Respirator	If ventilation is not available a respirator should be worn. The use of respirators				
	requires Respirator Protection Program to be in compliance with 29CFR 1910.134.				
	1910.134.				
	CECTION O. DI				
	SECTION 9: Physical and Chemical Properties				
Appearance	Yellow viscous liq.				
Odor Malting paint	No data				
Melting point	No data				
Boiling point	No data				
Flash point	No data				
Solubility in water	No data				
Specific gravity Molecular formula	No data				
	C18H26Ru				
Molecular weight	343.47				
	SECTION 10: Stability and Reactivity				
Stability	Air sensitive solid.				
Hazardous	No hazardous polymerization.				
polymerization	140 hazardous porymenzation.				
Conditions to avoid	Contact with air, oxidizing agents.				
Incompatibilities with	Air, oxidizing agents, halogens.				
other materials	, 6 161 117 11 161 11				
Hazardous decompo-	Carbon dioxide, carbon monoxide, ruthenium oxides.				
sition products					
	SECTION 11: Toxicological Information				
RTECS Data	No data available.				
Carcinogenic effects	No data available.				
Mutagenic effects	No data available.				
Tetratogenic effects	No data available.				
	SECTION 12: Ecological Information				
Ecological	No data available				
information					
SECTION 13: Disposal Considerations					
Dispose of in a manner consistent with federal, state, and local regulations.					
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	SECTION 14: Transport Information				
Shipping name (CFR)	Non-hazardous				
Hazard class (CFR)	NA				
Additional hazard	NA				
class (CFR)					
Packing group (CFR)	NA				
UN ID number (CFR)	NA				
Shipping name	Non-hazardous				
(IATA)					
Hazard class (IATA)	NA				
Additional hazard	NA				
class (IATA)					
Packing group	NA				
(IATA)					
UN ID number	NA				
(IATA)					
SECTION 15: Regulatory Information					
TSCA	Title compound not listed.				
SARA	Title compound not listed.				
SECTION 16: Other Information					
Preparation date	15.08.07				
Revision date	15.08.07				

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