





## Safety Data Sheet per OSHA HazCom 2012

Product name: Tris(dibenzylideneace	tone)dipalladium(O),complex with chloroform	
Most important symptoms and effects.	d rinse thoroughly. everal minutes under running water. Then consult a doctor. <b>both acute and delayed</b> No further relevant information available. <b>ention and special treatment needed</b> No further relevant information available.	(Contd. of page 1)
5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Carbon di Special hazards arising from the substa If this product is involved in a fire, the follow Carbon monoxide and carbon dioxide Hydrogen chloride (HCl) Metal oxide fume Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	ioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. <b>Ince or mixture</b> wing can be released:	
6 Accidental release measures Personal precautions, protective equipm Wear protective equipment. Keep unprotect Ensure adequate ventilation Environmental precautions: Do not allow Methods and material for containment a Prevention of secondary hazards: No sp Reference to other sections See Section 7 for information on safe hand See Section 8 for information on personal J See Section 13 for disposal information.	v material to be released to the environment without proper governmental permits. <b>Ind cleaning up:</b> Dispose of contaminated material as waste according to section 13. Secial measures required. Iling	
Conditions for safe storage, including a Storage Requirements to be met by storerooms	plosions and fires: No information known. ny incompatibilities and receptacles: No special requirements. on storage facility: Store away from oxidizing agents. litions: containers.	
Control parameters Components with limit values that requi Additional information: No data Exposure controls Personal protective equipment General protective and hygienic measur The usual precautionary measures for han Keep away from foodstuffs, beverages and Remove all soiled and contaminated clothi Wash hands before breaks and at the end Avoid contact with the eyes and skin. Maintain an ergonomically appropriate wor Breathing equipment: Use suitable respin Protection of hands: Impervious gloves Check protective gloves prior to each use to	technical systems: signed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. ire monitoring at the workplace: Not required. res dling chemicals should be followed. i feed. ing immediately. of work. rking environment. rator when high concentrations are present. for their proper condition. epends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. intues) Not determined	
Odor: A Odor threshold: A	Powder lot determined lot determined.	
Change in condition Melting point/Melting range: 1	lot applicable. 31-135 °C (268-275 °F) lot determined	(Contd. on page 3) USA

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Product name: Tris(dibenzylidenea	acetone)dipalladium(O),complex with chloroform	
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Sublimation temperature / start:	Not determined	
Flash point: Flammability (solid, gaseous)	Not applicable Not determined.	
Ignition temperature: Decomposition temperature:	Not determined Not determined	
Auto igniting:	Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits: Lower:	Not determined	
Upper:	Not determined	
Vapor pressure: Density:	Not applicable. Not determined	
Relative density Vapor density	Not determined.	
Evaporation rate	Not applicable. Not applicable.	
Solubility in / Miscibility with Water:	Insoluble	
Partition coefficient (n-octanol/water)		
Viscosity: dynamic:	Not applicable.	
kinematic: Other information	Not applicable. No further relevant information available.	
Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions No dangerous reactions known Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen chloride (HCI) Metal oxide fume		
Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: Palladium has caused bone marrow, liv energy by nerves and muscles, induce Subacute to chronic toxicity: No effec Additional toxicological information:	r classification: No data skin irritation. effect. known. ng cancer. own.	of
12 Ecological information		
Toxicity Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: General notes: Do not allow material to be released to the environment without proper governmental permits. Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.		
13 Disposal considerations		
Waste treatment methods	al or national regulations to ensure proper disposal. made according to official regulations.	
14 Transport information Not a hazardous material for transporta	ation.	
UN-Number DOT, IMDG, IATA	None	
UN proper shipping name DOT, IMDG, IATA	None	
		on page 4)
		-USA -

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	(Contd. of page
Transport hazard class(es)	
DOT, ADR, IMDG, IATA Class	None
Packing group DOT, IMDG, IATA	None
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 and	d the IBC Code Not applicable.
Transport/Additional information:	Not dangerous according to the above specifications.
DOT Marine Pollutant (DOT):	Νο
<ul> <li>5 Regulatory information</li> <li>Safety, health and environmental regulations/legislation speed GHS label elements The product is classified and labeled in acc Hazard pictograms</li> <li>Construction</li> <li>C</li></ul>	the blood through prolonged or repeated exposure. Route of exposure: Oral Inhalative
P405 Store locked up. P501 Dispose of contents/container in accordance with local/regi National regulations This product is not listed in the U.S. Environmental Protection Ag to research and development only. This product must be used by product must not be used for commercial purposes or in formulat SARA Section 313 (specific toxic chemical listings) Substanc California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not Brop 65 - Development loxicity. Substance of intendent	ional/national/international regulations. gency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricte y or directly under the supervision of a technically qualified individual as defined by TSCA. This tions for commercial purposes. ce is not listed. t listed. ed. 1. y qualified individuals. EACH Regulations (EC) No. 1907/2006. Substance is not listed. The Regulations (EC) No. 1907/2006. Substance is not listed.
5 Other information Employers should use this information only as a supplement to o information to ensure proper use and protect the health and safe conformance with this Material Safety Data Sheet, or in combinat	other information gathered by them, and should make independent judgement of suitability of this ty of employees. This information is furnished without warranty, and any use of the product not in tion with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: RID: Réglement international concernant le transport des marchandises dangereuses IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Associa ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (IACO-TI: Sectional Maritime Code for Dangerous Goods DOT: US Department of Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) HIMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent USA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) MRC: International Agency for Research on Cancer	tion" (IATA) 0) - US/