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	Version 1
1 Identification Product identifier	
Product identifier Product name: Tris(dibenzylideneacetone)dipalladium(0)	
Stock number: 12760 CAS Number:	
51364-51-3 Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development	
Details of the supplier of the safety data sheet Manufacturer/Supplier:	
Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099	
Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757	
Email: tech@alfa.com www.alfa.com	
Information Department: Health, Safety and Environmental Department Emergency telephone number: During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-	0789.
2 Hazard(s) identification	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) The substance is not classified as hazardous according to 29 CFR 1910 (OSHA GHS). Hazards not otherwise classified No information known.	
Label elements GHS label elements Not applicable Una subject surgers Not applicable	
Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable	
WHMIS classification Not controlled Classification system HMIS ratings (scale 0-4)	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System) HEALTH I HEALTH I	
HEALTH I Health (acute effects) = 1 FIRE I Flammability = 1 REACTIVITY Physical Hazard = 1	
Other hazards Results of PBT and vPvB assessment PBT: Not applicable.	
vPvB: Not'applicable.	
3 Composition/information on ingredients Chemical characterization: Substances	
CAS# Description: 51364-51-3 Tris(dibenzylideneacetone)dipalladium(0) Concentration: ≤100%	
4 First-aid measures	
Description of first aid measures After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm.	
Seek îmmediate medical advice. After skin contact	
Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.	
After swallowing Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed No further relevant information available.	
Indication of any immediate medical attention and special treatment needed No further relevant information available.	
5 Fire-fighting measures Extinguishing media	
Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released:	
Carbon monoxide and carbon dioxide Palladium oxide	
Advice for firefighters Protective equipment: Wear self-contained respirator.	
Wear fully protective impervious suit. Additional information The residue left after a fire may have catalytic properties and may promote the re-ignition of flammable materials.	
6 Accidental release measures Personal precautions, protective equipment and emergency procedures	
Wear protective equipment. Keep unprotected persons away. Ensure adequiate ventilation	
Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Pick up mechanically. Prevention of secondary hazards: No special measures required.	(Contd on page 2)
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Reference to other sections See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information. Protective Action Criteria for Chemicals PAC-1: Substance is not listed. PAC-2: Substance is not listed. PAC-3: Substance is not listed.

7 Handling and storage

Handling Precautions for safe handling Handle under dry protective gas. Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Information about protection against explosions and fires: No information known. Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Store away from air. Store away from water/moisture. Store away from oxidizing agents. Further information about storage conditions: Further information about storage conditions: Store under dry inert gas. This product is moisture sensitive. This product is air sensitive. Avoid contact with air/oxygen. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Protect from humidity and water. Specific end use(s) No further relevant information available. 8 Exposure controls/personal protection Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Control parameters Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information: No data Exposure controls Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Maintain an ergonomically appropriate working environment Wash hands before breaks and at the end of work. Maintain an ergonomically appropriate working environment. **Breathing equipment:** Use suitable respiratory protective device in case of insufficient ventilation. **Recommended filter device for short term use:** Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. **Protection of hands:** Impervious gloves Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Eye protection: Safety glasses with side shields / NIOSH (US) or EN 166(EU) Body protection: Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Powder Odor: Od<u>or threshold:</u> Not determined Not determined pH-value: Not applicable.

Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	152-155 °C (306-311 °F) Not determined Not determined	
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not applicable Product is not flammable. Not determined Not determined Not determined.	
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density	Product does not present an explosion hazard. Not determined Not determined Not applicable. Not determined Not determined. Not applicable.	
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Evaporation rate Solubility in / Miscibility with	Not applicable.
Water: Partition coefficient (n-octanol/water)	Decomposes : Not determined.
Viscosity: dynamic:	Not applicable.
kinematic: Other information	Not applicable. No further relevant information available.
10 Stability and reactivity Reactivity No information known.	
Chemical stability Stable under recom Thermal decomposition / conditions	mended storage conditions. to be avoided: Decomposition will not occur if used and stored according to specifications.
Reacts with strong oxidizing agents	
The catalytic properties of this product n Conditions to avoid No further relevan	nay promote the oxidation and ignition of organic materials. t information available.
Incompatible materials: Oxidizing agents	
Air Water/moisture	
Hazardous decomposition products: Carbon monoxide and carbon dioxide	
Palladium oxide	
11 Toxicological information	
Information on toxicological effects Acute toxicity: No effects known.	
LD/LC50 values that are relevant for on Skin irritation or corrosion: May cause	e irritation
Eve irritation or corrosion: May cause	e irritation
Germ cell mutagenicity: No effects kno Carcinogenicity: No classification data	own. own. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH
Reproductive toxicity: No effects know	vn.
	- repeated exposure: No effects known.
Specific target organ system toxicity Aspiration hazard: No effects known.	
Subacute to chronic toxicity: No effect	cts known. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.
12 Ecological information	
Toxicity	
Aquatic toxicity: No further relevant inf Persistence and degradability No furth	formation available. her relevant information available.
Bioaccumulative potential No further r Mobility in soil No further relevant infor	relevant information available.
Additional ecological information: General notes:	
Avoid transfer into the environment.	the environment without proper governmental permits.
Results of PBT and vPvB assessmen PBT: Not applicable.	ť
vPvB: Not applicable. Other adverse effects No further releva	ant information available.
13 Disposal considerations	
Waste treatment methods	a i ra i Postal
Uncleaned packagings:	or national regulations to ensure proper disposal.
Recommendation: Disposal must be m	hade according to official regulations.
14 Transport information UN-Number	
DOT, ADN, IMDG, IATA	Not applicable
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	Not applicable
Transport hazard class(es)	
DOT, ADR, ADN, IMDG, IATA Class	Not applicable
Packing group DOT, ADR, IMDG, IATA	Not applicable
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex Transport/Additional information:	x II of MARPOL73/78 and the IBC Code Not applicable.
DOT	
Marine Pollutant (DOT):	No (Contri on page
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 Not applicable

 15 Regulatory information

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

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