

SAFETY DATA SHEET
According to Regulation n. 1907/2006 and Regulation 830/2015
PD TRIS (dibenzilideneacetone)
Pd₂(DBA)₃



Revision n. II dd 15.01.2020
Replaces revision n I dd 01.06.2017

1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY

1.1 Product Identifier

Denomination **Tris(dibenzilideneacetone)dipalladio(0)**
C.A.S. Registry Number 51364-51-3
EINECS No. -
Molecular weight 915.72 g/mol
Formula bruta C₅₁H₄₂O₃Pd₂
Commercial Name PD TRIS (dibenzilideneacetone)

1.2 Substance or Mixture Identified pertinent uses and suggested uses

Omogeneous Catalyst

1.3 Safety Data Sheet supplier information

EU market introducing responsible

Name FAGGI ENRICO S.P.A.
Address Via Majorana, 101/103 50019 Sesto Fiorentino FI
Telephone number 055311861
Fax number 055311791
Qualified person responsible for SDS

lorenzo.magaldi@faggi.it

1.4 Emergency Telephone Number: Tel. 0557947819 Centro Antiveleni di Firenze

1.5 Registry number

For this product is not available a registration number as the annual produced or imported quantity is below one ton

2. HAZARDS IDENTIFICATION

2.1 Mixture classification according to Reg. (CE) n. 1272/2008 :

Hazard Classes	Categories	Hazard codes
Skin sens.	1	H317 May cause skin allergic reaction
Aq. Chronic	2	H411 Toxic for aquatic life with long lasting effects

2.2 Label elements :

Pictograms:



Advices	ATTENTION	
	H317	May cause skin allergic reaction
	H411	Toxic for aquatic life with long lasting effects

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Safety advices

- P261** Avoid breathing dust / fumes / gas / mist / vapours / spray
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection
P302+P352 IF ON SKIN: Wash with plenty of water
P333-P313 If skin irritation or a rash occurs: Get medical advice/attention.
P501 Dispose of contents / container in accordance with local / regional / national / international regulation

More information None
 PBT : not applicable
 • **Results of vPvB and vPvB ev.** vPvB : not applicable

3. **3. COMPOSITION / INFORMATION ON INGREDIENTS**

3.1 Substance Tris(dibenzilideneacetone)dipalladio(0)

CAS No : 51364-51-3
 EINECS No.
 CE No. : -
 IUPAC No. -

4. **FIRST AID MEASURES**

4.1 Description of first aid measures

Inhalation Move the subject from exposure to fresh air. By security consult a doctor. If the subject is unconsciousness bring him into stable side position for transportation.
Ingestion Call immediately a doctor. Let drink water immediately (at least 2 glasses)
Skin contact Wash immediately with water and soap, rinsing carefully
Eye contact Remove contact lenses. Wash immediately with plenty of water for at least 15 minutes, opening eyes. Consult a doctor if the problem persists.

Recommendations:

- **Need to consult immediately a doctor** YES
- **Possibility of delayed effects after exposure** YES
- **Move the exposed individual from exposure place to outdoor** YES
- **Remove individual's clothes and shoes** YES
- **Contaminated clothes handling** With gloves
- **For first aid responders, wear IPD** YES

4.2 Most important symptoms and effects, both acute and delayed

Skin and eye irritation

4.3 Indication of any immediate medical attention and special treatment needed

Consult immediately a doctor

5. **FIREFIGHTING MEASURES**

5.1 Extinguishing media

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Suitable extinguishing media: CO₂, water dust or spray. Fight larger fires with water spray or alcohol resistant foam.

Non suitable extinguishing media: None in particular

5.2 Special hazards arising from the substance or mixture

Avoid to breath smokes. If involved in a fire may generate: Carbon monoxide, hydrochloric acid, phosphorus oxides

5.3 Advice for firefighters

General information Do not allow water used to extinguish the fire flows into drain, in groundwater or surface water.

Devices Normal clothing to fight the fire, such as a compressed air breathing apparatus open circuit (EN137), full flame retardant (EN469), fire resistant gloves (EN659) and boots for firefighters (HOA29 or A30)

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Move away from the contaminated area and keep upwind.

6.1.2. For emergency responders

Wear :

Gloves for chemical risks comply with the rule EN420 EN374

Complete acid-proof clothing in conformity with the UNI EN 13034: 2006

Half-facial masks with filters ABEK2P3 R complies with EN14387: 2004 + A1: 2008

6.2 Environmental precautions:

Do not allow to enter drainage system, ground water and surface water. In case of water penetration or infiltration to terrain, warn qualified authorities

6.3 Methods and materials for containment and cleaning up

6.3.1. Recommendations on how to contain a spill

Avoid powder formation

6.3.2. Recommendations on how to clean up a spill

Wash the area with plenty of water.

6.3.3. Other informations:

None

6.4 Reference to other sections:

-

7. HANDLING AND STORAGE

7.1. Precautions for safe handling:

7.1.1. General recommendations

Store in original packaging and labeled. Maintain container well sealed in a fresh and dry space

7.1.2. General recommendations on personal hygiene

Do not eat, drink or smoke in work areas; Wash hands thoroughly after use and remove contaminated clothing and protective equipment before entering areas where you eat.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1. Managing the risks associated with explosive atmospheres, corrosive conditions, dangers of flammability, incompatible substances and mixtures, evaporation conditions, potential ignition sources

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No indication

7.2.2. Containment of the effects of weather conditions, pressure, temperature, sunlight, humidity and vibrations

Keep protected from direct sunlight in a dry, cool and well-ventilated space.

7.2.4. Precautions for maintaining integrity of the substances

Containers must be well sealed and labeled. Close containers immediately after use

7.2.5. Provisions on ventilation, specific design for storage rooms or vessels, quantity limits under storage conditions, packaging compatibilities

Stockage spaces must be fresh and dry. Store in an area without manhole or access to sewerage

7.3. Specific end use

Omogeneous Catalyst

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

For this substance It has not been established values for professional and biological exposure limits corresponding to EC limits referred to in Directives 98/24 / EC and 2004/37 / EC

8.2. Exposure controls:

8.2.1. Appropriate engineering controls

Use under extractor hood. Verify periodically hood capacity.

8.2.2. Individual protection measures, such as personal protective equipment

Protection Eye / face protective goggles for the eyes conform to Directive 89/686 / EEC and to the standard EN166: 2001

Skin protection (Hands) Latex protective gloves or nitrile rubber comply with directive UE89/89/CEE and with standard(EX374). Gloves permeation time must be ≥480 min. and thickness of 0,11 mm.

Skin protection (Body) Clothing complete conformity with the UNI EN 13034: 2006

Respiratory protection Mask with P2 filters

Thermal hazards None

8.2.3. Environmental exposure controls

Maintain aspiration to all environments using local capture systems and ambient air change. Conveying the withdrawn volumes to an abatement system and then into the atmosphere. Do not use vacuum systems to air recirculation. Avoid any spillage in the environment.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Basic Information on physical and chemical properties

Appearances Mauvish crystal powder

Odour Odourless

Odour Threshold Not defined

pH Not applicable

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Melting point/freezing	152-155°C
Initial boiling point and boiling range:	Not defined as product decompose
Flash point	Not flammable
Evaporation Rate	Not applicable
Flammability (solid & gas)	Not flammable
Upper/Lower flammability or explosive limits	Not flammable and not explosive
Vapour pressure	Not defined
Vapour Density	Not defined
Bulk density	Data not available
Solubility in water	Insoluble in water
Partition coefficient n-octanol/Water	Not applicable
Auto-ignition Temperature	Not subject to auto-ignition
Decomposition Temperature	Not defined
Viscosity	Not defined
Explosive Properties	Not explosive
Oxidazing Properties	Not Oxidizing

9.2. Other informations

None

10. STABILITY AND REACTIVITY

10.1 Reactivity

The product has catalytic properties

10.2 Chemical stability

The substance is stable into the normal way of use

10.3 Possibility of hazardous reactions

Reaction with strong oxidizing agents

10.4 Conditions to avoid

Humidity

10.5 Incompatible materials

Oxidizing agents

10.6 Hazardous decomposition products

Carbon monoxide

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- 11. TOXICOLOGICAL INFORMATION**
- 11.1 Information on toxicological effects**
- | | |
|--|---------------------------|
| Acute toxicity: | Data not available |
| Corrosion / irritation | May cause skin irritation |
| Eye irritations/damages | May cause eyes irritation |
| Sensitization | May cause sensitization |
| Mutagenicity | Data not available |
| Carcinogenicity: | Data not available |
| Reproductive toxicity | Data not available |
| Specific target organ toxicity (STOT) - single exposure | Data not available |
| Specific target organ toxicity (STOT) – repeated exposure | Data not available |
| Inhalation hazards | Data not available |
- 11.2 Information about exposure routes**
- Skin
- 11.3 Symptoms related to the physical, chemical and toxicological**
- Irritation
- 11.4 Immediate, delayed and chronic effects from exposure to short and long term**
- Skin and eyes irritation.
- 11.5 Interactive effects**
- Unknown interactive effects
- 11.6 Absence of specific data**
-
- 11.7 Other Information**
- None
- 12. Ecological informations**
- Specific data for this substance are unknown, so dichloromethane data have been used**
- | | |
|---|--|
| Toxicity | For this product specific data are unknown |
| Persistence and degradability | No information available |
| Bioaccumulative potential | No information available |
| Mobility in soil | No information available |
| Results of PBT and vPvB evaluation | No information available |
| Other adverse effects | No information available |
- 13. DISPOSAL CONSIDERATIONS**
- 13.1. 13. Methods of Waste Treatment:**
- The substance and packages must be sent to approved facilities for the disposal of industrial waste
- 14. TRANSPORT INFORMATION**
- | | |
|---|---|
| UN NUMBER | 3077 |
| Name | Hazardous for the environment, solid, N.o.s |
| Hazard class referred to transport | ----- |
| Packaging group | III |
| Hazardous for Environmental | SI |
| Special precautions for user | Use approved packaging |

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15.	REGULATORY INFORMATION	Applicabilità
	15.1 Legislazione	
	Reg. (CE) 1907/2006/CE Reach	SI
	Reg. (EC) 1272/2008 and subsequent CLP. amendments and additions	SI
	Reg. (EC) 2037/2000 "substances that deplete the ozone layer"	NO
	Reg. (EC) 850/2004 "Persistent organic pollutants"	NO
	Reg. (EC) 689/2008 "export and import hazardous chemicals"	NO
	Substance listed in Annex I of Dir. 96/82 / EC - "Seveso II" Directive, which was transposed into national legislation by the Legislative Decree 334/99	NO
	Italian Legislative Decree 81/2008 (Consolidated Act on protection of health and safety in the workplace), as amended	SI
	Directive 2014/103/UE "Adr"	NO
	15.2 Chemical Safety Assessment	
	A chemical safety assessment has not been carried out.	
16.	OTHER INFORMATION	
	16.1 Data compared to the previous version:	
	Modified sections 1	
	16.2 Abbreviations and acronyms	
	ADR: European Agreement on the transport of dangerous goods by road	
	GHS: Globally Harmonized System of Classification and Labelling of Chemicals.	
	EINECS: European chemical substance inventory	
	CAS: Chemical Abstracts Service	
	16.3 Key literature references and sources of the data on this MSDS:	
	http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances	
	platform ESIS http://esis.jrc.ec.europa.eu	
	Safety data sheets of the suppliers of substances used in the formulation	
	16.4 Classification and procedure used to derive it in accordance with Reg. (EC) 1272/2008 in relation to the mixtures.	
	Classification according to Regulation (CE) 1272/2008	Classification Procedure
	16.5. Formazioni adeguate per i lavoratori al fine di garantire la protezione della salute umana e dell'ambiente	
	<ul style="list-style-type: none"> • Training in accordance with the provisions of the Legislative Decree 81/2008 (Consolidated Act on protection of health and safety in the workplace), as amended. • PPE use 	
	16.6. Other informations	
	None	