

Safety data sheet
According to Regulation n. 1907/2006 and Regulation 878/2020



BLUCLAD 750 RPM 200

Palladium dichloro tetramino

Revision n. VI of 2021.10.26
Replaces revision n V del 2019.01.21

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Chemical name Palladium dichloro tetramino

Product code 175

1175

C.A.S. Registry Number 13815-17-3

EINECS number 237-489-7

Molecular weight 245.45

Brute formula Pd(NH₃)₄Cl₂

Commercial name BLUCLAD 750 RPM 200

1.2 Relevant identified uses of the substance or mixture and uses advised against

Intended uses Industrial use

Advised against uses None in particular

1.3 Details of the supplier of the safety data sheet

Name FAGGI ENRICO S.P.A.

Address Via Majorana, 101/103 50019 Sesto Fiorentino FI

Telephone number 055311861

Fax number 055311791

Competent person responsible for the safety data sheet lorenzo.magaldi@faggi.it

1.4 Emergency telephone number 111 - Medical helpline operating in England, in Scotland (NHS 24) and in Wales (NHS Direct Wales).

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Hazard classes	Category codes	Hazard statements
Met corr.	1	H290
Acute Tox.	4	H302
Skin Sens.	1	H317
Eye Irrit.	2	H319

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Aquatic acute (fattore M=100)	1	H400
Aquatic Chronic (fattore M=10)	1	H410

2.2 Label elements
Pictograms



Signal words
Hazard statements

HAZARD	
H290	It can be corrosive to metals
H302	Harmful if swallowed
H317	It can cause allergic skin reactions
H319	Causes severe eye damage
H410	Very toxic to aquatic life with long lasting effects

Precautionary statements

P261	Avoid breathing dust / fume / gas / mist / vapors and / aerosols
P280	Wear protective gloves / clothing / protect eyes and face
P301+P312	IF SWALLOWED accompanied by discomfort, contact a poison control center or doctor
P302+P352	IN CASE OF CONTACT WITH SKIN, wash thoroughly with soap and water
P305+P351+P338	IN CASE OF CONTACT WITH THE EYES rinse thoroughly for several minutes. Remove any contact lenses if easy to do. Continue rinsing.
P273	Do not disperse in the environment.

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P501

Dispose of the product /
container in accordance with
local / regional / national /
international regulations

2.3 Other hazards

It does NOT contain PBT / vPvB substances according to
Regulation (EC) 1907/2006, annex XIII
It does NOT contain substances that interfere with the
endocrine system in accordance with Regulation (EC)
1907/2006 art.59 paragraph 1 and in accordance with the
criteria established in Regulation (EU) 2017/2100 and
Regulation (EU) 2018/605.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance

CAS number	13815-17-3
EC number	237-489-7
INDEX number	Not available
M factor: acute toxicity	100
Factor M: chronic toxicity	10
ATE	Oral: LD50 933 mg/kg bw (rat) Skin contact: LD50 2 000 mg/kg bw (rat)

4. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	Take the person to a very well ventilated area and consult a doctor for safety. If the person is unconscious, keep him stable on his side during transport.
Ingestion	Call a doctor immediately. Do not give to drink or eat.
Contact with skin	It can cause allergic reactions
Contact with eyes	Rinse with plenty of running water for at least 15 minutes while keeping the eyelids open (remove contact lenses if it is easy to do so). Consult an ophthalmologist.

Recommendations:

	YES
• Need to see a doctor immediately	YES

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- Possibility of delayed effects following exposure YES
- Move the exposed individual from the place of exposure to the open air YES
- Remove the clothing and shoes of the exposed individual With gloves
- How to handle contaminated clothing YES

4.2 Most important symptoms and effects, both acute and delayed

Harmful if swallowed. It can cause allergic skin reactions. Causes severe eye damage.

4.3 Indication of any immediate medical attention and special treatment needed

In case of skin contact or inhalation, call a physician immediately.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media CO2 or powder or water spray extinguishers. Extinguish large fires with water spray or alcohol-resistant foam.

Unsuitable extinguishing media None in particular

5.2 Special hazards arising from the substance or mixture

If heated, it can generate ammonia vapors.

5.3 Advice for firefighters

General information: Prevent the water used to extinguish the fire from flowing into the sewer, groundwater or surface water.

Equipment: Normal fire-fighting clothing, such as self-contained open-circuit compressed air breathing apparatus (EN137), flame retardant suit (EN469), flame retardant gloves (EN659) and firefighter boots (HOA29 or A30)

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Keep away from contaminated area and keep upwind

6.1.2. For emergency responders

Use :

Chemical risk gloves compliant with EN420 EN374 standards

Splash goggles compliant with Directive 89/686 / EEC and standard EN166: 2001

Complete antacid clothing compliant with the UNI EN 13034: 2006 type 6 standard

Mask with K-type filters



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6.2 Environmental precautions

Prevent infiltration into the sewer, groundwater and surface water.

In the event of infiltration into bodies of water or sewers, notify the competent authorities.

In case of penetration into the ground, notify the competent authorities.

6.3 Methods and material for containment and cleaning up

6.3.1. Advice in order to contain a spill

Collect product.

6.3.2. Advice in order to clean-up a spill

Wash with water

6.3.3 Other information

Disposal of contaminated material in accordance with point 13. Provide adequate ventilation.

6.4 Reference to other sections

None

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

7.1.1. Recommendations in order to manipulate the substance or the mixture in a safe manner, such as containment measures and prevention of fire and aerosol and powders formation

Store in original and labeled packaging. Use under suction. Close the jars immediately after use. Use is permitted only to trained and informed personnel.

7.1.2. General recommendation on work hygiene

Do not eat, drink and smoke in work areas. Wash your hands after use. Remove contaminated clothing and protective equipment before entering eating areas

7.2. Conditions for safe storage, including any incompatibilities

7.2.1. Risk management associated with explosive atmospheres, corrosive conditions, flammability hazards, incompatible substances or mixtures, evaporative conditions, potential ignition sources

Close the packaging immediately after use

7.2.2. Control of weather conditions, ambient pressure, temperature, sunlight, humidity, and vibration

7.2.3. Conditions to maintain the integrity of the substance or mixture

Store in the original container protected from direct sunlight in a dry, cool and well-ventilated area.

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7.2.4. Advice regarding the ventilation, specific design for storage rooms or vessels, quantity limits under storage conditions, packaging compatibilities

Store in original closed packaging

7.2.5 Provisions relating to ventilation, specific design of storage rooms or containers, quantitative limits in storage conditions, compatibility of packaging

Use ADR approved packaging

7.3. Specific end use(s)

Industrial use

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

For this substance, the occupational and biological exposure limit values corresponding to the relative Community limit values referred to in Directives 98/24 / EC and 2004/37 / EC have not been established.

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Periodically check the range of the extractor hood

8.2.2. Individual protection measures, such as personal protective equipment

Eye/face protection

Protective goggles for eyes compliant with Directive 89/686 / EEC and with standard EN166: 2001

Skin protection (hands)

Chemical risk gloves compliant with EN420 EN374 standards

Skin protection (body)

Protective clothing compliant with UNI EN 13034: 2006 type 6

Respiratory protection

Semi-facial masks with P3 filters compliant with 14387: 2004 + A1: 2008 standards in the absence of technical measures to limit worker exposure

Thermal hazards

Data not available

8.2.3. Environmental exposure controls

Maintain suction in all environments using localized collection and ambient air exchange systems. Convey the aspirated volumes to an abatement system and then into the atmosphere. Do not use recirculating air suction systems. Avoid any spill into the environment

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

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Physical state	Solid
Colour	Yellow
Odour	Odorless
Melting point/freezing point	Not applicable
Boiling point or initial boiling point and boiling range	It decomposes
Flammability	Not inflammable
Lower and upper explosion limit	Not explosive
Flash point	Not inflammable
Auto-ignition temperature	Not inflammable
Decomposition temperature	300 ° C
pH	Not applicable
Kinematic viscosity	Not applicable
Solubility	327 g / l in water at 20 ° C
Partition coefficient n-octanol/water (log value)	Not applicable
Vapour pressure	Not applicable
Density and/or relative density	1.91 g / cm ³ at 25 ° C
Relative vapour density	Not applicable
Particle characteristics	<100 µm: 16.2%

9.2. Other information

None

10. STABILITY AND REACTIVITY

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10.1	Reactivity	
	The substance reacts violently to heat with strong reducing agents	
10.2	Chemical stability	
	The substance is stable	
10.3	Possibility of hazardous reactions	
	No relevant information	
10.4	Conditions to avoid	
	None in particular	
10.5	Incompatible materials	
	Strong reducing agents	
10.6	Hazardous decomposition products	
	Ammonia, ammonium chloride	
11.	TOXICOLOGICAL INFORMATION	
11.1	Information on hazard classes as defined in Regulation (EC) No 1272/2008	
	Acute toxicity	Oral LD50 933 mg / kg bw (rat)
	Acute inhalation toxicity	It can have irritating effects
	Acute dermal toxicity	Causes severe eye damage
	Skin corrosion / irritation	It can cause allergic reactions
	Serious eye damage/irritation	Not mutagenic
	Respiratory or skin sensitization	Not carcinogenic
	Germ cell mutagenicity	Not toxic for reproduction
	Carcinogenicity	Not toxic to target organs
	Reproductive toxicity	Not toxic to target organs
	STOT – single exposure	Oral LD50 933 mg / kg bw (rat)
	STOT – repeated exposure	It can have irritating effects
	Aspiration hazard	Causes severe eye damage
11.2	Information on other hazards	
	Eyes, skin, respiratory system	



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11.3	Symptoms related to the physical, chemical and toxicological characteristics Burning of the skin, eyes and respiratory tract	
11.4	Delayed, immediate and chronic effects from short and long term exposure Respiratory tract and skin irritation. Serious eye irritation. Harmful if absorbed through the skin. Harmful if swallowed	
11.5	Interactive effects No interactive effects are known	
11.6	Absence of specific data No specific data are known for the substance; Therefore, generic data relating to the compound palladium chloride (II) were used	
11.7	Other information none	
12.	ECOLOGICAL INFORMATION	
12.1	Toxicity	Chronic toxicity 96 hour LC50 (for fish) ≤ 1 mg / l and / or 48 hour EC50 (for crustaceans) ≤ 1 mg / l and / or 72 or 96 hour CrE50 (for algae and other aquatic plants) ≤ 1 mg / l. Chronic toxicity 96 hour LC50 (for fish) ≤ 1 mg / l and / or 48 hour EC50 (for crustaceans) ≤ 1 mg / l and / or 72 or 96 hour CrE50 (for algae and other aquatic plants) ≤ 1 mg / l
12.2	Persistence and degradability	Not applicable
12.3	Bioaccumulative potential	No information available
12.4	Mobility in soil	Log Kp(solids-water in soils): 2.64
12.5	Results of PBT and vPvB assessment	Not applicable
12.6	Endocrine disrupting properties	Not know effect
12.7	Other adverse effects	Not know effect
13.	DISPOSAL CONSIDERATIONS	
13.1.	Waste treatment methods	

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The mixture and its packaging must be disposed of as hazardous waste and delivered to authorized companies.

14.	TRANSPORT INFORMATION	
14.1	UN number or ID number	1759
14.2	UN proper shipping name	Corrosive solid n.o.s. (palladium dichloro tetramino)
14.3	Transport hazard class(es)	8
14.4	Packing group	III
14.5	Environmental hazards	YES
14.6	Special precautions for user	Use approved packaging
14.7	Maritime transport in bulk according to IMO instruments	Not applicable
15.	REGULATORY INFORMATION	
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	Applicability
	Reg. (EC) 1907/2006 / EC Reach	YES
	Reg. (EC) 1272/2008 CLP and subsequent changes and additions	YES
	Reg. (CE) 2037/2000 "Substances that deplete the ozone layer"	NO
	Reg. (EC) 850/2004 "Persistent organic pollutants"	NO
	Reg. (EC) 689/2008 "export and import of dangerous chemicals"	NO
	Substance listed in Annex I of Dir. 2012/18 / EU so-called Seveso	NO
	Legislative Decree 81/2008 Consolidated Law on health and safety at work	YES
	Directive 2014/103 / EU "Adr"	YES
15.2	Chemical safety assessment	
	A chemical safety assessment was not carried out	
16.	OTHER INFORMATION	
16.1	Changes compared to the previous edition	
	Regulatory update	
16.2	Acronim and abbreviation legend	
	ADR : Agreement concerning the International Carriage of Dangerous Goods by Road	
	GHS: Globally Harmonized System of Classification and Labelling of Chemicals	

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EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstract Service

16.3 Main references and data sources

ECHA's data bank on registered substances and soon to be registered substances:

<http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances>

16.5 Adequate training for workers in order to ensure the protection of human health and the environment

Training on Chemical Risk pursuant to Legislative Decree 81/08 Title IX dangerous substances

DPI training