

Safety data sheet
According to Regulation n. 1907/2006 and Regulation 878/2020
PD DIAMINODINITRITE 100 g / l



Revision n. VII of 2022.01.31
 Replaces revision VI of 2021.06.21

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

1.1 Product identifier

Chemical name PD DIAMINODINITRITE 100 g / l
 Product code 115

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

Recommended uses Industrial use
 Uses advised against 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).

1.5 Registration number

A REACH registration number is not available as it is a mixture.

2. HAZARDS IDENTIFICATION

2.1 Classification of the mixture according to Regulation (EC) n. 1272/2008

Hazard class	Category codes	Hazards indications
Skin corr.	1B	H314
STOT SE	3	H335

2.2 Label elements

Pictograms



Signal word

DANGER

Hazard statements

H314	Causes serious skin burns and serious eye injuries
H335	Can irritate the respiratory tract

Precautionary advice

P280	Wear protective gloves / clothing / eye protection / face protection
P301 + P330 + P331	IF SWALLOWED: rinse mouth. DO NOT induce vomiting
P303+P361+P353	IN CASE OF CONTACT WITH SKIN (or hair): immediately take off all contaminated

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P305 + P351 + P338 clothing. Rinse the skin / take a shower
 IN CASE OF CONTACT WITH THE EYES: rinse thoroughly for several minutes. Remove any contact lenses if easy to do. Continue rinsing
 P273 Avoid release to the environment

- 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

3.2 Mixure

Product identifier	Concentration %	Classifications	
		Hazard Classes	Category codes
Ammonia CAS 1336-21-6 EC 215-647-6 INDEX 007-001-01-2 N. Reach 01-2119488876-14-XXXX Acute M factor: 1 Specific limits: STOT SE 3; H335: C ≥ 5%	1 ≤ C ≤ 7	Skin corr. 1B STOT SE 3 Aquatic acute 1	H314 H335 H400
Diamminedinitropalladium(II) CAS 14409-60-0 EC: 238-388-0 INDEX: Not available N. Reach: exempt for quantity	20 ≤ C ≤ 40	Skin irrit. 2 Eye irrit. 2 STOT SE 3	H315 H319 H335

4. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation If the person is unconscious, keep him stable on his side during transport.

Ingestion Drink plenty of water and stand in a well-ventilated area. Seek immediate medical attention. Do not induce vomiting.

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Contact with skin	Wash immediately with soap and water and rinse thoroughly.
Contact with eyes	Wash with running water for several minutes holding the eyelids wide open and consult a doctor. Do not use eye drops and ointments.

Recommendations:

- Need to see a doctor immediately YES
- 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 YES
- How to handle contaminated clothing With gloves
- For those who take first care, wear PPE YES

4.2 Most important symptoms and effects, both acute and delayed

Causes serious eye damage. It can irritate the respiratory tract. Causes severe burns. It can cause heartburn in the mouth, throat and stomach.

4.3 Indication of any immediate medical attention and special treatment needed

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

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	Suitable extinguishing media: CO ₂ , powder or water spray. Extinguish large fires with water spray or alcohol-resistant foam.
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Unsuitable extinguishing media	None in particular
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5.2 Special hazards arising from the substance or mixture

In a fire or if heated, a pressure increase will occur and the container may burst. Possible formation of ammonia vapors and nitrogen oxide fumes.

5.3 Advice for firefighters

Isolate the area by removing all people in case of fire. Prevent the water used to extinguish the fire from flowing into the sewer, groundwater or surface water.

General information

Equipment

Normal fire-fighting clothing, such as self-contained open-circuit compressed air breathing apparatus (EN137), flame retardant

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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

Wear:

Gloves for chemical risks compliant with EN420 EN374 Standards

Complete clothing compliant with the UNI EN 13034: 2006 standard

Mask with K-type filters compliant with EN14387: 2004 + A1: 2008

6.2 Environmental precautions

Prevent infiltration into the sewer, groundwater and surface water. In case of infiltration into bodies of water or sewers or 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

Move containers from the spill area. Contain and collect any spills with non-combustible absorbent material, such as sand, earth, vermiculite, diatomite. Prevent leakage into sewer systems, waterways, basements or surrounding areas

6.3.2. Advice in order to clean-up a spill

Use means of neutralization

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. Provide sufficient ventilation / extraction in the workplace. Avoid the formation of aerosols.

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 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

Keep the container tight and sealed until use. Keep away from acid substances.

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

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

7.2.3. Conditions for keeping substances / mixtures intact

Open containers must be resealed and kept straight

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

Use ADR-approved packaging and store them in a containment basin equal to the capacity of the packaging with greater volume in rooms without sewage drains.

7.3. Specific end use(s)

Industrial use

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters (related to metallic Silver species)

Ammonia (Annex XXXVIII Legislative Decree 81/06):

TWA (8h) 14 mg / m³ or 20 ppm

STEL (short term) 36 mg / m³ or 50 ppm

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Local suction systems, emergency showers and eye washing system near the work area.

8.2.2. Individual protection measures, such as personal protective equipment

Eye/face protection Splash goggles 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) Complete antacid clothing compliant with the UNI EN 13034: 2006 type 6 standard

Respiratory protection Semi-face mask with K type filter

Thermal hazards Data not available

8.2.3. Environmental exposure controls

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

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state Liquid

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Color	Light yellow
Odor	Ammoniacal
Melting point / freezing point	- 33 ° C
Boiling point or initial boiling point and boiling range	> 60 ° C
Flammability	Not inflammable
Lower and upper explosive limits	Not explosive
Flash point	Not inflammable
Self-ignition temperature	Not inflammable
Decomposition temperature	Data not available
pH	> 8 to 20 ° C
Cinematic viscosity	Data not available
Solubility	Fully miscible in water
Production coefficient n-octanol / water (logarithmic value)	Data not available
Vapor pressure	Data not available
Density and / or relative density	1.13 g / cm ³
Relative vapor density	Data not available
Characteristics of the particles	Not applicable

9.2. Other information

None

10. STABILITY AND REACTIVITY

10.1 Reactivity

The product has alkaline properties

10.2 Chemical stability

Do not expose to direct sunlight and keep away from heat sources

10.3 Possibility of hazardous reactions

In normal conditions of use and storage no dangerous reactions are foreseeable.
 It can react violently with acids and reducing agents generating heat.

10.4 Conditions to avoid

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10.5	Information not available Incompatible materials Strong acids, reducing agents.	
10.6	Hazardous decomposition products Ammonia, nitrogen oxides	
11.	TOXICOLOGICAL INFORMATION	
11.1	Information on hazard classes as defined in Regulation (EC) No 1272/2008	
	Acute toxicity	Based on available data, the classification criteria are not met
	Skin corrosion / irritation	Corrosive to the skin
	Serious eye damage/irritation	Causes serious eye damage
	Respiratory or skin sensitization	Irritating to respiratory tract
	Germ cell mutagenicity	Based on available data, the classification criteria are not met
	Carcinogenicity	Based on available data, the classification criteria are not met
	Reproductive toxicity	Based on available data, the classification criteria are not met
	STOT – single exposure	Respiratory tract irritation
	STOT – repeated exposure	Based on available data, the classification criteria are not met
11.2	Information on other hazards None	
12.	ECOLOGICAL INFORMATION	
12.1	Toxicity	Based on available data, the classification criteria are not met
12.2	Persistence and degradability	Readily biodegradable in plants and soils.
12.3	Bioaccumulative potential	Data not available
12.4	Mobility in soil	Data not available
12.5	Results of PBT and vPvB assessment	Not applicable
12.6	Endocrine disrupting properties	No known effects
12.7	Other adverse effects	None known
13.	DISPOSAL CONSIDERATIONS	
13.1.	Waste treatment methods	

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The substance and its packaging must be disposed of as hazardous waste by authorized companies.

14.	TRANSPORT INFORMATION		
14.1	UN number or ID number	3266	
14.2	UN proper shipping name	Corrosive, basic, inorganic liquid, nas (ammonia)	
14.3	Transport hazard class(es)	8	
14.4	Packing group	II	
14.5	Environmental hazards	NO	
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		
	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		

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**Indication, for mixtures, of which methods of evaluation of the information have
been used for the purposes of classification**

	Classification	Classification procedure
H314	Causes serious skin burns and serious eye injuries	Calculation method
H335	Can irritate the respiratory tract	Calculation method

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

- Chemical Risk Training pursuant to Legislative Decree 81/08 Title IX dangerous substances
- PPE training