

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



Revision n. VIII of 01.12.2022
 Replaces revision VII of 31.01.2022

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 Check section 15

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 clothing. Rinse the skin / take a shower
P305 + P351 + P338	IN CASE OF CONTACT WITH THE EYES: rinse thoroughly for several minutes.

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- 2.3 Other hazards**
- P273 Avoid release to the environment
- Remove any contact lenses if easy to do. Continue rinsing
- 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 Mixture

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

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.
- 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

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- 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: CO₂, powder or water spray.
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

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.
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)

General information

Equipment

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

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- 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. *Raccomentations 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 closed and sealed until use. Keep away from acid substances.
- 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**
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 |

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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
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 at 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

Information not available

10.5 Incompatible materials

Strong acids, reducing agents.

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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	No known effects
13.	DISPOSAL CONSIDERATIONS	
13.1.	Waste treatment methods 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

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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
	Reg. (CE) 1907/2006/CE Reach art. 59 – Candidate List of Substances of Very High Concern (SVHC)	NO
	Reg. (CE) 1907/2006/CE Reach - Annex XIV – Authorisation List	NO
	Reg. (CE) 1907/2006/CE Reach - Annex XVII – Restriction List https://echa.europa.eu/it/substances-restricted-under-reach	Limited use Item 3 - 75 (check link)
15.2	Chemical safety assessment A chemical safety assessment was not carried out	
16.	OTHER INFORMATION	
	Changes compared to the previous edition Regulatory update	
	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	
	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	
	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
	Adequate training for workers in order to ensure the protection of human health and the environment	
	<ul style="list-style-type: none"> • Chemical Risk Training pursuant to Legislative Decree 81/08 Title IX dangerous substances • PPE training 	