

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



BLUCLAD 750 RPM 100

Revision n. V of 2021.07.12
Replaces revision n IV del 2019.01.21

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

1.1 Product identifier

Chemical name Bluclad 750 RPM 100

Product code 170

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
Skin corr,	1B	H314
Skin sens	1	H317
Resp. Sens.	1	H334
Muta.	2	H341
Carc.	1A	H350i
Repr.	1B	H360D
STOT RE	1	H372
Aquatic acute	1	H400
Aquatic chronic	1	H410

2.2 Label elements

Pictograms



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Signal words	HAZARD	
Hazard statements	H314	It causes serious skin burns and serious eye injuries
	H317	May cause an allergic skin reaction
	H334	May cause allergy or asthma symptoms or breathing
	H341	Suspected of causing genetic defects
	H350i	May cause cancer if inhaled
	H360D	It can harm the unborn child
	H410	Very toxic to aquatic life with long lasting effects
Precautionary statements	P261	Avoid breathing dust / fume / gas / mist / vapors / spray.
	P263	Avoid contact during pregnancy / breastfeeding
	P280	Wear protective gloves / clothing / eye protection / face protection.
	P301+P330+P331	IF SWALLOWED: Rinse mouth. DO NOT induce vomiting
	P303+P361+P353	IF ON SKIN (or hair): Immediately take off all contaminated clothing. Rinse the skin / take a shower.
P308+P313	IN THE EVENT OF EXPOSURE OR POSSIBLE EXPOSURE: Get medical attention	

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- 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 Mixture

Product identifier	Concentration	Classification	
		Classes of danger Category codes	Indications of danger
Ammonia CAS 1336-21-6 EC 215-647-6 INDEX 007-001-01-2 N. Reach 01- 2119488876-14-XXXX Acute M factor: 1 ATE LC50 101 mg / l (invertebrates)	5% ≤ C ≤ 20%	Skin corr. 1 A STOT SE 3 Aquatic Acute 1	H314 H335 H400
Palladium dichloro tetramino CAS 13815-17-3 EC: 237-489-7 N.Reach: exempt for quantity Acute toxicity M factor 100 Chronic toxicity M factor 10 ATE Oral: LD50 933 mg / kg bw (rat) ATE Dermal: LD50 2 000 mg / kg bw (rat)	20% ≤ C ≤ 30%	Met. Corr. 1 Acute tox. 4 Skin sens. 1 Eye Irrit. 2 Aquatic acute 1 Aquatic chronic 1	H290 H302 H317 H319 H400 H410
Nickel sulphate CAS 7786-81-4 CE 232-104-9	5% ≤ C ≤ 10%	Acute Tox 4 Skin Irrit. 2 Skin Sens. 1	H302 H315 H317

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INDEX 028-009-00-5	Acute Tox. 4	H332
N.Reach 01-	Resp.Sens. 1	H334
2119439361-44-XXXX	Muta 2	H341
Chronic toxicity M	Carc. 1A	H350
factor: 1	Repr. 1B	H360D
Acute toxicity M	STOT RE 1	H372
factor: 1	Aquatic Chronic 1	H410
ATE oral LD50 281 mg / kg bw (rat)		
ATE inhalation: LC50 (4h) 2.48 mg / L (rat)		

4. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	Bring to fresh air. 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. If irritation continues, consult a doctor.
Contact with eyes	Wash with running water for several minutes holding the eyelids wide open and consult your 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	Use gloves
• How to handle contaminated clothing	YES

4.2 Most important symptoms and effects, both acute and delayed

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Strong burning and pain. Cough, asthmatic breathing, laryngitis, shortness of breath, headache, nausea and vomiting. Burns to the mouth, vomiting, diarrhea, edema, swelling of the larynx. Redness, pain and watery eyes. Abdominal pain.

4.3 Indication of any immediate medical attention and special treatment needed

Seek immediate medical attention

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

5.2 Special hazards arising from the substance or mixture

An increase in pressure could occur with the possibility of rupture of the container. Possible fumes of ammonia, nitrogen oxides or sulfur oxides.

5.3 Advice for firefighters

Isolate the area by removing all people in case of fire.

Firefighting clothing, such as 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 clothing compliant with the UNI EN 13034: 2006 standard

Mask with ABEK P3 type filters

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 liquid with absorbent material (sand, universal binder, sawdust). Prevent infiltration into sewers / surface water / ground water.

6.3.2. Advice in order to clean-up a spill

Wash with plenty of water and dispose of at authorized companies.

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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 aereosol and powders formation*

Use the mixture only in the presence of adequate aspiration.

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*

Store in sealed and labeled containers. Keep away from acids.

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.

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

Open containers must be resealed and kept straight

7.3. Specific end use(s)

Industrial use

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

There are no known parameters for this mixture. Below are the data for the individual substances:

AMMONIA

TWA 8 / h 17 mg / m³ 25 ppm TLV-ACGIH

STEL 15 / m 24 mg / m³ 35 ppm TLV-ACGIH

TWA 8 / h 14 mg / m³ 20 ppm OEL

STEL 15 / m 36 mg / m³ 50 ppm OEL

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DNEL / DMEL (inhalation) 36 mg / m³ local acute
DNEL / DMEL (inhalation) 47.6 mg / m³ systemic acute
DNEL / DMEL (inhalation) 14 mg / m³ local chronic
DNEL / DMEL (dermal) 6.8 mg / kg systemic acute
DNEL / DMEL (dermal) 6.8 mg / kg chronic systemic
NICKEL SULPHATE
TWA 8 / H 0.1 mg / m³ TLV-ACGHIC

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Use only under suction and in the vicinity of an emergency shower and an eyewash.
Periodically check the range of the extractor hood.

8.2.2. Individual protection measures, such as personal protective equipment

Eye/face protection Protective glasses (EN166 standard)

Skin protection (hands) Gloves compliant with EN734 standard

Skin protection (body) Work clothes with long sleeves and safety footwear compliant with Dir. 89/686 / EEC and EN ISO 20344 standard.

Respiratory protection Mask with P2 type filter

Thermal hazards None

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

Physical state Liquid

Colour Pale yellow

Odour Ammoniacal

Melting point/freezing point -57 ° C

Boiling point or initial boiling point and boiling range > 80 ° C

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Flammability	Not inflammable
Lower and upper explosion limit	Not explosive
Flash point	Not inflammable
Auto-ignition temperature	Not inflammable
Decomposition temperature	Data not available
pH	8 - 10 at 20 ° C
Kinematic viscosity	Data not available
Solubility	Fully miscible in water
Partition coefficient n-octanol/water (log value)	Not applicable
Vapour pressure	Approximately 830 hPa at 20 ° C
Density and/or relative density	c.a. 1.16 g / ml 3
Relative vapour density	Data not available
Particle characteristics	Not applicable

9.2. Other information

None

10. STABILITY AND REACTIVITY

10.1 Reactivity

The product has alkaline properties

10.2 Chemical stability

The product is stable

10.3 Possibility of hazardous reactions

In normal conditions of use and storage no dangerous reactions are foreseeable.

10.4 Conditions to avoid

Exposure to the sun and heat.

10.5 Incompatible materials

Ammonia: silver, lead, zinc and their salts, hydrochloric acid, nitric acid, oleum, nitro methane and acrylic acid.

10.6 Hazardous decomposition products

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By thermal decomposition, toxic or corrosive vapors of ammonia, nitrogen oxides, sulfur oxides and nickel oxides can be released.

11.	TOXICOLOGICAL INFORMATION	
11.1	Information on hazard classes as defined in Regulation (EC) No 1272/2008	
	Acute toxicity	Ammonia
	Acute inhalation toxicity	NOEL Oral 68 mg / kg
	Acute dermal toxicity	LD50 Prale 281 mg / kg Rat
	Skin corrosion / irritation	Mixture - Corrosive to the skin
	Serious eye damage/irritation	Mixture - Causes eye damage
	Respiratory or skin sensitization	Mixture - Sensitizer
	Germ cell mutagenicity	Mixture - Suspected mutagenic
	Carcinogenicity	Mixture - Carcinogenic
	Reproductive toxicity	Mixture - Toxic for reproduction
	STOT – single exposure	Data not available
	STOT – repeated exposure	Data not available
	Aspiration hazard	Irritating to respiratory tract.
11.2	Information on other hazards	
	None	
12.	ECOLOGICAL INFORMATION	
	As it is not possible to provide specific data on the mixture, the following data are provided for the substance ammonium vanadate	
12.1	Toxicity	LC50 Fish 0,89 mg / l / 96h
12.2	Persistence and degradability	EC50 Crustaceans 0,101 mg / l / 48h
12.3	Bioaccumulative potential	Chronic NOEC Corstacea 0.79 mg / l
12.4	Mobility in soil	Quickly biodegradable
12.5	Results of PBT and vPvB assessment	-0.64 mg / l (partition coefficient n-octanol / water)
12.6	Endocrine disrupting properties	13.8 mg / l (soil / water partition coefficient)

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12.7	Other adverse effects	Data not available
13.	DISPOSAL CONSIDERATIONS	
13.1.	Waste treatment methods	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	3266
14.2	UN proper shipping name	Basic corrosive inorganic liquid n.o.s. (ammonia in solution)
14.3	Transport hazard class(es)	8
14.4	Packing group	II
14.5	Environmental hazards	YES
14.6	Special precautions for user	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	YES
	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	
	Amendment to sections 1 and 3	
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	

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- 16.3** 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>
- 16.4** **Indication, for mixtures, of which methods of evaluation of the information have been used for the purposes of classification**
- | | Classification | Classification procedure |
|-------------------|-----------------------|---------------------------------|
| STOT RE 1 | H372 | Calculation method |
| Skin Sens. 1 | H317 | Calculation method |
| Skin Corr. 1B | H314 | Calculation method |
| Resp. Sens. 1 | H334 | Calculation method |
| Repr. 1B | H360D | Calculation method |
| Muta 2 | H341 | Calculation method |
| Carc. 1A | H350i | Calculation method |
| Aquatic Chronic 1 | H410 | Calculation method |
| Aquatic Acute 1 | H400 | Calculation method |
- 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
- 16.6** **Other information**
Not available