

Revision n. XI – 02.12.2022 Replaces revision n. X – 21.06.2021

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

1.1 Product identifier

Commercial name BLUCLAD 750 RPM 200 Ni

Product code 170

mixture

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

Intended uses Additive for galvanic baths for 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.

Adress Via Majorana, 101/103 50019 Sesto Fiorentino FI

Telephone number 055311861 Fax number 055311791

Competent person

responsible for the safety data lorenzo.magaldi@faggi.it

sheet

**1.4 Emergency telephone** 111 - Medical helpline operating in England, in Scotland

**number** (NHS 24) and in Wales (NHS Direct Wales)

#### 2. HAZARDS IDENTIFICATION

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

Hazard classes	Category codes	Hazard statements
Skin Corr.	1B	H314
Skin Sens.	1	H317
Resp. Sens.	1	H334
STOT SE	3	H335
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** 



Signal word DANGER
Hazard statements

H314 Causes severe skin burns and

eye damage

H317 May cause an allergic skin

reaction



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	H334	May cause allergy or asthma
		symptoms or breathing
		difficulties if inhaled
	H335	It can irritate the respiratory
		tract
	H341	Suspected of causing genetic
		defects
	H350i	May cause cancer if inhaled
	H360D	It can harm the unborn child
	H372	Causes damage to organs
		through prolonged or repeated
		exposure
	H410	Very toxic to aquatic life with
		long lasting effects
Precautionary	P261	Avoid breathing dust / fume /
statements		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.
	13011133011331	DO NOT induce vomiting.
	P303+P361+P353	IN CASE OF CONTACT WITH
	13031130111333	SKIN (or hair): Immediately take
		off all contaminated clothing;
		rinse the skin / take a shower.
	D200 - D212	•
	P308+P313	IF exposed or likely to be
046 6 6	It does NOT contain DDT	exposed: Get medical attention
Other hazards		/ vPvB substances according to
	Regulation (EC) 1907/200	
		tances that interfere with the
	· · · · · · · · · · · · · · · · · · ·	ordance 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

2.3

Product identifier	Concentration	Classification		
	%	<b>Hazard classes</b>	<b>Category codes</b>	
Ammonia	15 ≤ C ≤ 25	Skin corr. 1 B	H314	
CAS 1336-21-6		STOT SE 3	H335	
EC 215-647-6		Aquatic acute 1	H400	
INDEX 007-001-01-2				
N. Reach 01-2119488876-14-XXXX				
Specific limits:				
STOT SE 3; H335: C ≥ 5%				

#### Safety data sheet

### According to Regulation n. 1907/2006 and Regulation 878/2020 BLUCLAD 750 RPM 200 Ni



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ATE: not applicable
Acute M factor: 1

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Nickel sulfate	$15 \le C \le 20$	Acute Tox. 4	H302
CAS 10101-97-0		Skin Irrit. 2	H315
CE 232-104-9		Skin Sens. 1	H317
INDEX 028-009-00-5		Acute Tox. 4	H332
N.Reach 01-2119439361-44-XXXX		Resp. Sens. 1	H334
ATE (oral): LD50 281 - 361.9 mg/kg		Muta. 2	H341
bw (rat)		Carc. 1A	H350i
ATE (inhalation): LC50 (4 h) 2.48		Repr. 1B	H360D
mg/L air (rat)		STOT RE 1	H372
M factor chronic toxicity: 1		Aquatic acute 1	H400
		Aquatic Chronic 1	H410

#### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

Inhalation	Call the doctor immediately. In the meantime, take the subject out into the open air, away from the scene of the accident. If breathing stops or is difficult, give artificial respiration taking appropriate precautions for the rescuer.
Ingestion	Do not induce vomiting. Give as much water to drink as possible and call a doctor immediately.
Skin contact	Remove contaminated clothing and wash thoroughly with plenty of water and mild soap.
Eye contact	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).

#### Reccomendation:

•	Need to see a doctor immediately	YES
•	Possibility of delayed effects following exposure	YES
•	Move the exposed individual from the place of exposure to	YES
	the open air	
•	Remove the clothing and shoes of the exposed individual	YES
•	How to handle contaminated clothing	With gloves
•	For first aiders, wear PPE	YES

#### 4.2 Most important symptoms and effects, both acute and delayed

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 Call a physician immediately.

#### 5. FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

**Suitable extinguishing media**:

Fire extinguisher with CO<sub>2</sub> or powder or water spray.

Extinguish large fires with water spray or alcohol-resistant foam.

#### Safety data sheet

### According to Regulation n. 1907/2006 and Regulation 878/2020 BLUCLAD 750 RPM 200 Ni



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Non suitable extinguishing None in particular.

media:

#### 5.2 Special hazards arising from the substance or mixture

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

#### 5.3 Advice for firefighters

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

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

Move away from the contaminated area immediately 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 / CEE and standard EN166: 2001. Complete antacid clothing compliant with the UNI EN 13034: 2006 type 6 standard.

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

#### 6.2 Environmental precautions

Prevent infiltration into the sewer, ground water and surface water.

In case 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 to contain a spill

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

#### 6.3.2. Advice to clean-up a spill

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

#### 6.3.3 Any 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 to manipulate the substance or the mixture in a safe manner, such as containement 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



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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. 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.

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

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

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

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



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**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 type B filter in case of exceeding the

threshold values

Thermal hazards none

8.2.3. Environmental exposure controls

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

spill into the environment.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

Physical state Liquid
Colour Dark blue
Odour Ammonia like

Melting point/freezing - 57 ° C

point

Boiling point or initial 80 ° C

boiling point and boiling

range

Flammability Not inflammable

Lower and upper Lower explosion limit: 15.4% (V) relative to the

explosion limit mixture of ammonia and water at 25%

Flash point Not applicable Auto-ignition Not applicable

temperature

Decomposition Not applicable

temperature

pH 8.5 - 9.5

Kinematic viscosity No data available Solubility Fully miscible in water

Partition coefficient n- Not applicable

octanol/water (log value)

Vapour pressure 635 hPa at 20 ° C

Density and/or relative 1.15 g / ml

density

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 chemically stable.

10.3 Possibility of hazardous reactions



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

10.4 Conditions to avoid

Overheating

10.5 Incompatible materials

Silver, lead, zinc and their salts, hydrochloric acid, nitric acid, oleum, nitro methane and acrylic acid.

10.6 Hazardous decomposition prodoucts

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 (CE) No 1272/2008

Skin corrosion/irritation

Serious eve damage/irritation

Acute toxicity Ammonia

NOEL Oral 68 mg / kg LD50 Prale 350 mg / kg Rat Mixture - Corrosive to the skin Mixture - Causes eve damage

**Respiratory or skin sensitization** Mixture - Sensitizer

Germ cell mutagenicity Mixture - Suspected mutagen

Carcinogenicity Mixture - Carcinogenic

**Reproductive toxicity** Mixture - Toxic for reproduction

(STOT) single exposure No available data (STOT) repeated exposure No available data

#### 11.2 Information on other hazards

#### Symptoms related to the physical, chemical and toxicological characteristics

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.

#### Delayed, immediate and chronic effects from short and long term exposure

The product has a carcinogenic effect on humans by inhalation. There is sufficient evidence to establish a causal link between human exposure to the substance contained in the product and the development of tumors. The product is to be considered with suspicion due to possible mutagenic effects. However, insufficient information is available to definitively demonstrate hereditary genetic alterations. The product has a teratogenic effect on humans and causes a toxic effect on the development of the fetus. The product can produce functional disturbances or morphological changes, due to repeated and prolonged exposure and / or presents concern for the possibility of accumulation in the human body.

The product is corrosive and causes severe burns and blisters on the skin. In the acute phase, erythema, edema and exudation prevail. In chronic phases, scales, dryness, fissuring and thickening of the skin prevail.

In contact with the eyes it causes serious injuries and can cause opacity of the cornea, iris injury, irreversible eye coloring. Any vapors are caustic to the respiratory system and can cause pulmonary edema, the symptoms of which sometimes appear after a few hours.

#### **Interactive effects**

No interactive effects are known

Absence of specific data



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		No specific data are known for this m	ivturo	the data of the substances	contained
		No specific data are known for this m (ammonia and nickel sulphate) were			contained
12.	ECOLOGICAL INFORMATION				
	As it is not possible to provide specific data on the mixture, the following data are			ig data are	
		provided for the substance ammoniu	m vana	adate.	
	12.1	Toxicity	LC50	Fish 0,89 mg / I / 96h	
				Crustaceans 0,101 mg / I / 4	
				ic NOEC Crustaceans 0.79 n	•
	12.2	Persistence and degradability		ly biodegradable in plants a	nd soils.
	12.3	Bioaccumulative potential	-	Log POW	
	12.4	Mobility in soil		vailable data	
	12.5	Results of PBT and vPvB	Not a	vailable data	
	42.6	assessment	NI. I.		
	12.6	Endocrine disrupting properties	_	own effects	
13.	12.7	Other adverse effects DISPOSAL CONSIDERATIONS	not a	vailable data	
13.	13.1.	Waste treatment methods			
	15.1.	Either the mixture or packages must l	ha cant	t to approved facilities for th	ne disposal of
		industrial wastes.	DC 3CIII	to approved facilities for th	ic disposar or
14.		TRANSPORT INFORMATION			
	14.1	UN number or ID number		ONU: 3266	
	14.2	UN proper shipping name		Basic corrosive inorganic li	iauid n.o.s.
		ere broken emblem8 mme		(ammonia)	
	14.3	Transport hazard class(es)		8	
	14.4	Packing group		II	
	14.5	Environmental hazards		YES	
	14.6	Special precautions for user		Use approved packaging	
	14.7	Maritime transport in bulk according	g to	Not applicable	
		IMO instruments			
15.		INFORMATION			
	15.1	Safety, health and environmental rep	gulatio	ns/legislation specific	Applicability
		for the substance or mixture			
		Reg. (CE) 1907/2006/CE Reach			YES
		Reg. (CE) 1272/2008 CLP and subsequences the			YES
		Reg. (CE) 2037/2000 "Substances the	-	-	NO NO
		Reg. (CE) 850/2004 "Persistent organ	•		NO NO
		Reg. (CE) 689/2008 "Export and impossible Substance listed in Annex I of Dir. 20.	-		YES
		Directive 81/2008 Consolidated Act of			YES
		work safety	J., p. 00	conon of neuron and	123
		Directive 2014/103/UE "Adr"			YES
					NO
		Substances of Very High Concern (SV			-
		Reg. (CE) 1907/2006/CE Reach - Ann	-	<ul> <li>Authorisation List</li> </ul>	NO
		Reg. (CE) 1907/2006/CE Reach - Ann			Limited use
	https://echa.europa.eu/it/substances-restricted-under-reach				



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> Item 3 – 27 – 28 – 29 – 30 - 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 amendment

#### 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: <a href="http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances">http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances</a>

Reporting, for mixtures, which methods of evaluating the information were used for the purposes of classification.

	Classification		Classification procedure
STOT SE 3		H335	Calculation method
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
Aguatic Acute 1		H400	Calculation method

### Adequate training for workers to guarantee the protection of human health and the environment

- Training on the chemical risk ex Directive 81/08 Title IX dangerous substances
- Training on PPE