

Revision n. X dd 06.21.2021

Replaces revision n. IX dd 01.18.2019

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

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

sheet

1.4 Emergency telephone Ph. 0557947819 Poison Control Center of Florence

number

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
Label elements		

2.2 Label elements

Pictograms



Signal words DANGEROUS Hazard statements

H314 Causes severe skin burns and

eye damage



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	H317	May cause an allergic skin reaction	
	Н334	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 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	IN CASE OF CONTACT WITH SKIN (or hair): Immediately take off all contaminated clothing; rinse the skin / take a shower.	
	P308+P313	IF exposed or likely to be exposed: Get medical attention	
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) 1907/2 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

J.Z IVIIALUI C	3.2	Mixture
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Product identifier	Concentration	Classification	
	%	Hazard classes	Category codes
Ammonia	15-25%	Skin corr. 1 B	H314
CAS 1336-21-6		STOT SE 3	H335

2.3



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EC: 215-647-6 n. Reach 01-2119488876-14-XXXX M factor acute toxicity: 1		Aquatic acute 1	H400
		Acute Tox. 4	H302
Nickel sulfate	15-20%	Skin Irrit. 2	H315
CAS 10101-97-0		Skin Sens. 1	H317
CE 232-104-9		Acute Tox. 4	H332
INDEX 028-009-00-5		Resp. Sens. 1	H334
N.Reach 01-2119439361-44-XXXX		Muta. 2	H341
M factor chronic toxicity: 1		Carc. 1A	H350i
		Repr. 1B	H360D
		STOT RE 1	H372
		Aquatic Chronic 1	H410

4. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation

	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).

Call the doctor immediately. In the meantime, take the subject out into

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 those providing first aid, 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

Safety data sheet

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



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5.1 Extinguishing media

Suitable extinguishing Fire extinguisher with CO₂ or powder or water spray.

media: Extinguish large fires with water spray or alcohol-resistant

foam.

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



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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

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.

7.2.3. 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.

7.2.4. Conditions for keeping substances / mixtures intact

Open containers must be resealed and kept straight.

7.2.5. 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



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> 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 type B filter in case of exceeding the

threshold values

Thermal hazards nobody

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state Liquid
Colour Dark blue
Odour ammoniacal
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)



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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

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

Acute toxicity

Skin corrosion/irritation

Serious eye damage/irritation

Respiratory or skin sensitization

Germ cell mutagenicity

Ammonia

NOEL Oral 68 mg / kg

LD50 Prale 350 mg / kg Rat

Mixture - Corrosive to the skin

Mixture - Causes eye damage

Carcinogenicity Mixture - Sensitizer

Reproductive toxicity Mixture - Suspected mutagen (STOT) single exposure Mixture - Carcinogenic

(STOT) repeated exposure Mixture - Toxic for reproduction

Aspiration hazard Data not available

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



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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

No specific data are known for this mixture; the data of the substances contained (ammonia and nickel sulphate) were therefore used

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 / I / 96h
			EC50 Crustaceans 0,101 mg / I / 48h
			Chronic NOEC Crustaceans 0.79 mg / I
	12.2	Persistence and degradability	Readily biodegradable in plants and soils.
	12.3	Bioaccumulative potential	-0,64 Log POW
	12.4	Mobility in soil	Not available data
	12.5	Results of PBT and vPvB	Not available data
		assessment	
	12.6	Endocrine disrupting properties	No known effects
	12.7	Other adverse effects	Not available data
13.		DISPOSAL CONSIDERATIONS	
	13.1.	Waste treatment methods	
		Either the mixture or packages must	be sent to approved facilities for the disposal of
		industrial wastes.	
14.		TRANSPORT INFORMATION	
	14.1	UN number or ID number	ONU: 3266
	14.2	UN proper shipping name	Basic corrosive inorganic liquid n.o.s.
			(ammonia)
	14.3	Transport hazard class(es)	8
	14.4	Packing group	II



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	14.5	Environmental hazards	YES	
	14.6	Special precautions for user	Use approved packaging	
	14.7	Maritime transport in bulk according to	Not applicable	
		IMO instruments		
15 .	REGULATORY	INFORMATION		
	15.1	Safety, health and environmental regulations/legislation specific		Applicability
		for the substance or mixture		
		Reg. (CE) 1907/2006/CE Reach		YES
		Reg. (CE) 1272/2008 CLP and subsequent amendements Reg. (CE) 2037/2000 "Substances that deplete the ozone layer"		YES
				NO
		Reg. (CE) 850/2004 "Persistent organic pollutants"		NO
		Reg. (CE) 689/2008 "Export and import of hazardous chemicals"		NO
		Substance listed in Annex I of Dir. 2012/18/EU cd Seveso		YES
		Directive 81/2008 Consolidated Act on protection of health and work safety		YES
		Directive 2014/103/UE "Adr"		YES
	<i>15.2</i>	Chemical safety assessment		
		A chemical safety assessment was not carrie	d out.	
16.		OTHER INFORMATION		

16.

Changes compared to the previous edition

Regulatory adaptation. Variation to points 2 and 3

Acronim and abbreviation legend

ADR: Agreement concerning the International Carriage of Dangerous Goods by Road Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

Chemical Abstract Service CAS:

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

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

Classification	Classification procedure	į
H335	Calculation method	
H372	2 Calculation method	
H317	7 Calculation method	
H314	4 Calculation method	
H334	Calculation method	
H360d	d Calculation method	
H341	1 Calculation method	
H350	i Calculation method	
H410	Calculation method	
H400	Calculation method	
	H335 H377 H317 H314 H360 H342 H350 H410	H335 Calculation method H372 Calculation method H317 Calculation method H314 Calculation method H334 Calculation method H360d Calculation method H341 Calculation method H350i Calculation method H410 Calculation method



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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 DPI