Scheda di Dati di Sicurezza / Safety Data Sheet

Conforme all'Allegato II del REACH - Regolamento (UE) 2020/878
According to Annex II to REACH - Regulation 2020/878

Codice / Code:	**NB12100**
Nome prodotto / Product name:	**ZINCO**
Descrizione d'uso / Intended use:	**Determinazione colorimetrica dello Zinco nei liquidi biologici / Colorimetric determination of Zinc in biological fluids**
Fornitore / Supplier:	**Mascia Brunelli S.p.A.** Viale Monza 272, 20128 Milano, Italia. Tel.: 0039 02 252091 E-mail: mktg@masciabrunelli.it

Componenti del kit / Kit components:

1. **RA BUFFER**
2. **RB NITRO-PAPS**
3. **STANDARD**

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Code: **NB12100**
Product name: **ZINCO_RA (Reagent)**

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

Identified use: Reagent for in-vitro diagnostic
Uses advised against: Do not use for purposes other than those listed

1.3 Details of the supplier of the safety data sheet

Name **Mascia Brunelli S.p.A.**
Full address **Viale Monza, 272**
District and Country **20128 Milano (Milano)**
Italia

Tel. 0039 02 252091

e-mail address of the competent person

responsible for the Safety Data Sheet **mktg@masciabrunelli.it**

1.4 Emergency telephone number

For urgent inquiries refer to NHS111 in England: 111
NHS24 in Scotland: 111
NHS Direct in Wales: 111 or 0845 4647
In an emergency, if the patient has collapsed or is not breathing properly, call 999

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements).

Hazard classification and indication: --

2.2 Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms: --

Signal words: --

Hazard statements: --

Supplemental Hazard statement Code(s): EUH032 – Contact with acids liberates very toxic gas.
EUH210 – Safety data sheet available on request.

Precautionary statements: --

2.3 Other hazards

Contain: Boric Acid – SVHC
Based on the available data, there are no substances that interfere with the endocrine System in accordance with Regulation (EU) 2017/2100.

No information on other hazards.

SECTION 3: Composition/information on ingredients

3.1 Substances

Irrilevant

3.2 Mixtures

Refer to paragraph 16 for full text of hazard statements.

Substance	Concentration (w/w)	Classification	Index	CAS	EINECS	REACH
Secol-90	≥ 5 < 10,00%	Skin Irrit. 2, H315 Eye Irrit. 2, H319	ND	84133-50-6	617-534-0	ND
Boric acid - SVHC	≥ 1 < 3,00%	Repr. 1B, H360FD Limits: Repr. 1B, H360FD %C ≥ 5,5;	005-007-00-2	10043-35-3	233-139-2	ND
Sodium azide	< 0,1%	EUH032; Acute Tox. 2, H300; Aquatic Acute 1, H400; Aquatic chronic 1, H410 M-factor = 1 Chronic toxicity M-factor = 1 ATE oral = 27,0 mg/kg ATE dermal = 20,0 mg/kg ATE inhal = 37,0 mg/L/4h	011-004-00-7	26628-22-8	247-852-1	ND

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation: air the area. Immediately move the patient from the contaminated area and keep him at rest in a well-ventilated area. If you feel unwell seek medical advice.

Direct skin contact (of the pure product): wash thoroughly with soap and running water.

Direct eye contact (of pure product): wash immediately with plenty of water for at least 10 minutes.

Ingestion: not hazardous. It's possible to give activated charcoal in water or liquid paraffin medicine.

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

Information not available

4.3. Indication of any immediate medical attention and special treatment needed

Information not available

SECTION 5: Fire fighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT
The extinguishing equipment should be of the conventional kind: Foam. Dry powder. Carbon dioxide. Water spray, depending on the materials involved in the fire.
UNSUITABLE EXTINGUISHING EQUIPMENT
Water jets. Use 'water jets only to cool container surfaces exposed to fire.

5.2. Special hazards arising from the substance or mixture

Information not available

5.3. Advice for firefighters

Use respiratory protection. Safety helmet and full protective clothing. Water spray can be used to protect people engaged in extinguishing. It is also advisable to use self-contained breathing apparatus, especially, if working in enclosed and poorly ventilated places and in any case if halogenated extinguishing agents (Halon 1211 fluobrene, solkane 123, naf etc.) are used. Cool containers with jets of water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For those not taking direct action: Move away from the area surrounding the spill or release. Do not smoke. Wear gloves and protective clothing.

6.1.2 For direct interveners: Wear gloves and protective clothing. Eliminate all open flames and possible sources of ignition. Do not smoke. Provide adequate ventilation. Evacuate the hazard area and, if necessary, consult an expert.

6.2. Environmental precautions

Contain spill with earth or sand. If the product has entered a watercourse in sewers or has contaminated soil or vegetation, notify the appropriate authorities.
Dispose of the residue in accordance with applicable regulations.

6.3. Methods and material for containment and cleaning up

6.3.1 For containment. Collect the product for reuse, if possible, or for disposal. Possibly absorb it with inert material. Prevent it from entering the sewer system.

6.3.2 For cleanup. After collection, wash the affected area and materials with water.

6.3.3 Other information: None in particular.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact and inhalation of vapors.
Do not eat or drink while working.
See also section 8 below.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers upright and secure, avoiding the possibility of dropping or knocking. Store in a cool place, away from any source of heat and direct exposure to sunlight.

7.3. Specific end use(s)

Professional uses:
Handle with caution.
Store in ventilated place and away from heat sources.
Keep container tightly closed.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Related to contained substances:

Sodium azide:
TLV (as ceiling value): as vapor of hydrogenoic acid 0.11 ppm; such as sodium azide 0.29 mg/m^3 (ACGIH 1996).
TWA 0.1 mg/m^3
MAK 0.2 mg/m^3

8.2. Exposure controls

Suitable engineering controls:
Professional uses:

No specific controls provided

Personal protective measures:

HAND PROTECTION
When handling the pure product use chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3).

SKIN PROTECTION
Wear normal work clothing.

EYE PROTECTION
When handling the pure product use safety glasses (spectacles cage) (EN 166).

RESPIRATORY PROTECTION
None required for normal use.

THERMAL HAZARDS
No Hazard to report

ENVIRONMENTAL EXPOSURE CONTROLS
Use according to good working practices, avoiding spillage into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	Liquid	
Colour	Colourless	
Odour	Odourless	
Melting point / freezing point	Not determined	
Initial boiling point	Not determined	
Flammability	Non determined	
Lower explosive limit	Not determined	
Upper explosive limit	Not determined	
Flash point	Not determined	
Auto-ignition temperature	Not determined	
pH	8.15 – 8.25	
Kinematic viscosity	Not determined	
Solubility	Not determined	
Partition coefficient: n-octanol/water	Not determined	
Vapour pressure	Not determined	
Density and/or relative density	Not determined	
Relative vapour density	Not determined	
Particle characteristics	Not determined	

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Information not available

SECTION 10: Stability and reactivity

10.1. Reactivity

Acido borico
****not translated****

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

Acido borico
**** not translated****

Sodium azide:
Heating
Radiation exposure (decomposes)
Shakes or bumps

10.5. Incompatible materials

N/D

10.6. Hazardous decomposition products

Does not decompose when used for its intended uses.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

ATE(mix) oral = 291.885,6 mg/kg
ATE(mix) dermal = ∞
ATE(mix) inhal = ∞

(a) acute toxicity: based on available data, the classification criteria are not met
(b) skin corrosion/dermal irritation: based on available data, the classification criteria are not met
(c) severe ocular damage/eye irritation: based on available data the classification criteria are not met
(d) respiratory or skin sensitization: based on available data the classification criteria are not met
(e) germ cell mutagenicity: based on available data the classification criteria are not met
(f) carcinogenicity: based on available data the classification criteria are not met
(g) reproductive toxicity: based on available data the classification criteria are not met
(h) specific target organ toxicity (STOT) single exposure: based on available data the classification criteria are not met
(i) specific target organ toxicity (STOT) repeated exposure: based on available data the classification criteria are not met
(j) aspiration hazard: based on available data, the classification criteria are not met.

Health hazards:
Eye contact: Accidental contact of product with eyes can cause irritation.
Skin contact: The product is not an irritant. Prolonged or repeated contacts may degrease and irritate the skin, causing sometimes dermatitis.
Ingestion: The product ingested may cause irritation of the mucous membranes of the throat and digestive system causing digestive symptoms and abnormal bowel disorders.
Inhalation: Prolonged exposure to vapors or mists of the product may cause respiratory irritation.

acido borico
**** Not translated ****

sodium azide:
EXPOSURE VIALS: The substance can be absorbed into the body by inhalation, by skin and by ingestion.
INHALATION RISK: Evaporation at 20°C is negligible; However, a harmful concentration of airborne particles can be achieved quickly.
EFFECTS OF SHORT-TERM EXPOSURE: The substance is irritating to the eyes, the skin and the respiratory tract. Exposure slightly above the OEL may cause effects on the nervous system.

ACUTE RISKS / SYMPTOMS
INHALATION: Cough. Headache. Breathable breathing. Unconscious state. Closed nose. Glowing vision. Slow heart beat. Lowering blood pressure.

CUTE: CAN BE ABSORBED! Redness. Blisters.
EYES: Redness. Ache.
INGESTION: Abdominal pain. Nausea. Sweating. (See also Inhalation).
LD50 (rat) Oral (mg/kg body weight) = 27
LD50 Dermal (rat or rabbit) (mg/kg body weight) = 20
CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 37

11.2. Information on other hazards

No data available.

SECTION 12: Ecological information

12.1. Toxicity

acido borico
**** Not translated ****

sodium azide:
C(E)L50 (mg/L) = 0,7

Use according to good working practices, avoiding dispersing the product into the environment.

12.2. Persistence and degradability

Related to contained substances: sodium azide:
For heating decomposes to sodium and nitrogen.
Azides and azoic acids (or hydrazenoic or hydrogen azide) are unstable and explosive. In the water, it suffers photolysis.
Does not undergo microbial degradation.

12.3. Bioaccumulative potential

Information not available

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

Based on the available data, no PBT or vPvB substances are present in accordance with Regulation (EC) 1907/2006, annex XIII.

12.6. Endocrine disrupting properties

Based on the available data, there are no substances that interfere with the Endocrine System in accordance with Regulation (EU) 2017/2100.

12.7. Other adverse effects

No adverse effects observed

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Do not reuse empty containers. Dispose of them in accordance with current regulations. Any product residues should be disposed of according to current regulations by contacting authorized companies. Recover if possible. Operate according to current local or national regulations.

SECTION 14: Transport information

14.1. UN number or ID number

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

No data available

14.7. Maritime transport in bulk according to IMO instruments

There is no provision for bulk transport

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No 1272/2008 of the European Parliament and of the council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Substances in the Candidate List (REACH Article 59)
boric acid - SVHC

15.2. Chemical safety assessment

A chemical safety assessment has not been performed by the supplier

SECTION 16: Other information

All paragraphs are modified.

Description of the hazard statements exposed to point 3
H315 = Causes skin irritation. H319 = Causes serious eye irritation.
H360FD = May damage fertility. May damage the unborn child. H300 = Fatal if swallowed.
H400 = Very toxic to aquatic life.
H410 = Very toxic to aquatic life with long lasting effects.
Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:
No hazard to report. Classification procedure: Calculation method

GENERAL BIBLIOGRAPHY
1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EC) 758/2013 of the European Parliament
4. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
5. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
6. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
7. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
8. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
9. Regulation (EU) 517/2013 of Council

10. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
11. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
12. Regulation (EU) 2015/491 of the European Parliament
13. Regulation (EU) No. 1297/2014 of the Commission
14. Regulation (EC) 528/2012 of the European Parliament and subsequent updates
15. Regulation (EC) 648/2004 of the European Parliament and subsequent updates
- The Merck Index.
- Handling Chemical Safety
- Niosh – Registry of Toxic Effects of Chemical Substances
- INRS - Fiche Toxicologique
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition

Note for users:
The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.
This document must not be regarded as a guarantee on any specific product property.
The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

This SDS replaces and cancels all previous ones.

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Code: **NB12100**
Product name: **ZINCO_RB (Reagent)**

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

Identified use: Reagent for in-vitro diagnostic
Uses advised against: Do not use for purposes other than those listed

1.3 Details of the supplier of the safety data sheet

Name **Mascia Brunelli S.p.A.**
Full address **Viale Monza, 272**
District and Country **20128 Milano (Milano)**
Italia

Tel. 0039 02 252091

e-mail address of the competent person

responsible for the Safety Data Sheet **mktg@masciabrunelli.it**

1.4 Emergency telephone number

For urgent inquiries refer to NHS111 in England: 111
NHS24 in Scotland: 111
NHS Direct in Wales: 111 or 0845 4647
In an emergency, if the patient has collapsed or is not breathing properly, call 999

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements).

Hazard classification and indication: --

2.2 Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms: --

Signal words: --

Hazard statements: --

Supplemental Hazard statement Code(s): EUH032 – Contact with acids liberates very toxic gas.
EUH210 – Safety data sheet available on request.

Precautionary statements: --

2.3 Other hazards

Based on the available data, no PBT or vPvB substances are present in accordance with Regulation (EC) 1907/2006, annex XIII.

Based on the available data, there are no substances that interfere with the endocrine System in accordance with Regulation (EU) 2017/2100.

No information on other hazards.

SECTION 3: Composition/information on ingredients

3.1 Substances

Irrilevant

3.2 Mixtures

Refer to paragraph 16 for full text of hazard statements.

Substance	Concentration (w/w)	Classification	Index	CAS	EINECS	REACH
Sodium azide	< 0,1%	EUH032; Acute Tox. 2, H300; Aquatic Acute 1, H400; Aquatic chronic 1, H410 M-factor = 1 Chronic toxicity M-factor = 1 ATE oral = 27,0 mg/kg ATE dermal = 20,0 mg/kg ATE inhal = 37,0 mg/L/4h	011-004-00-7	26628-22-8	247-852-1	ND

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation: air the area. Immediately move the patient from the contaminated area and keep him at rest in a well-ventilated area. If you feel unwell seek medical advice.

Direct skin contact (of the pure product): wash thoroughly with soap and running water.

Direct eye contact (of pure product): wash immediately with plenty of water for at least 10 minutes.

Ingestion: not hazardous. It's possible to give activated charcoal in water or liquid paraffin medicine.

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

Information not available

4.3. Indication of any immediate medical attention and special treatment needed

Information not available

SECTION 5: Fire fighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT
The extinguishing equipment should be of the conventional kind: Foam. Dry powder. Carbon dioxide. Water spray, depending on the materials involved in the fire.
UNSUITABLE EXTINGUISHING EQUIPMENT
Water jets. Use 'water jets only to cool container surfaces exposed to fire.

5.2. Special hazards arising from the substance or mixture

Information not available

5.3. Advice for firefighters

Use respiratory protection. Safety helmet and full protective clothing. Water spray can be used to protect people engaged in extinguishing. It is also advisable to use self-contained breathing apparatus, especially, if working in enclosed and poorly ventilated places and in any case if halogenated extinguishing agents (Halon 1211 fluobrene, solkane 123, naf etc.) are used. Cool containers with jets of water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For those not taking direct action: Move away from the area surrounding the spill or release. Do not smoke. Wear gloves and protective clothing.

6.1.2 For direct interveners: Wear gloves and protective clothing. Eliminate all open flames and possible sources of ignition. Do not smoke. Provide adequate ventilation. Evacuate the hazard area and, if necessary, consult an expert.

6.2. Environmental precautions

Contain spill with earth or sand. If the product has entered a watercourse in sewers or has contaminated soil or vegetation, notify the appropriate authorities.
Dispose of the residue in accordance with applicable regulations.

6.3. Methods and material for containment and cleaning up

6.3.1 For containment. Collect the product for reuse, if possible, or for disposal. Possibly absorb it with inert material. Prevent it from entering the sewer system.

6.3.2 For cleanup. After collection, wash the affected area and materials with water.

6.3.3 Other information: None in particular.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact and inhalation of vapors.
Do not eat or drink while working.
See also section 8 below.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers upright and secure, avoiding the possibility of dropping or knocking. Store in a cool place, away from any source of heat and direct exposure to sunlight.

7.3. Specific end use(s)

Professional uses:
Handle with caution.
Store in ventilated place and away from heat sources.
Keep container tightly closed.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Related to contained substances:

Sodium azide:
TLV (as ceiling value): as vapor of hydrogenoic acid 0.11 ppm; such as sodium azide 0.29 mg/m^3 (ACGIH 1996).
TWA 0.1 mg/m^3
MAK 0.2 mg/m^3

8.2. Exposure controls

Suitable engineering controls:
Professional uses:

No specific controls provided

Personal protective measures:

HAND PROTECTION
When handling the pure product use chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3).

SKIN PROTECTION
Wear normal work clothing.

EYE PROTECTION
When handling the pure product use safety glasses (spectacles cage) (EN 166).

RESPIRATORY PROTECTION
None required for normal use.

THERMAL HAZARDS
No Hazard to report

ENVIRONMENTAL EXPOSURE CONTROLS
Use according to good working practices, avoiding spillage into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	Clear Liquid	
Colour	Dark orange	
Odour	Odourless	
Melting point / freezing point	Not determined	
Initial boiling point	Not determined	
Flammability	Non determined	
Lower explosive limit	Not determined	
Upper explosive limit	Not determined	
Flash point	Not determined	
Auto-ignition temperature	Not determined	
pH	6.65 – 6.75	
Kinematic viscosity	Not determined	
Solubility	Not determined	
Partition coefficient: n-octanol/water	Not determined	
Vapour pressure	Not determined	
Density and/or relative density	Not determined	
Relative vapour density	Not determined	
Particle characteristics	Not determined	

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Information not available

SECTION 10: Stability and reactivity

10.1. Reactivity

No reactivity hazards

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

Related to contained substances:

Sodium azide:
Heating
Radiation exposure (decomposes)
Shakes or bumps

10.5. Incompatible materials

N/D

10.6. Hazardous decomposition products

Does not decompose when used for its intended uses.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

ATE(mix) oral = ∞
ATE(mix) dermal = ∞
ATE(mix) inhal = ∞

(a) acute toxicity: based on available data, the classification criteria are not met
(b) skin corrosion/dermal irritation: based on available data, the classification criteria are not met
(c) severe ocular damage/eye irritation: based on available data the classification criteria are not met
(d) respiratory or skin sensitization: based on available data the classification criteria are not met
(e) germ cell mutagenicity: based on available data the classification criteria are not met
(f) carcinogenicity: based on available data the classification criteria are not met
(g) reproductive toxicity: based on available data the classification criteria are not met
(h) specific target organ toxicity (STOT) single exposure: based on available data the classification criteria are not met
(i) specific target organ toxicity (STOT) repeated exposure: based on available data the classification criteria are not met
(j) aspiration hazard: based on available data, the classification criteria are not met.

Related to contained substances:

sodium azide:
EXPOSURE VIALS: The substance can be absorbed into the body by inhalation, by skin and by ingestion.
INHALATION RISK: Evaporation at 20°C is negligible; However, a harmful concentration of airborne particles can be achieved quickly.
EFFECTS OF SHORT-TERM EXPOSURE: The substance is irritating to the eyes, the skin and the respiratory tract. Exposure slightly above the OEL may cause effects on the nervous system.

ACUTE RISKS / SYMPTOMS
INHALATION: Cough. Headache. Breathable breathing. Unconscious state. Closed nose. Glowing vision. Slow heart beat. Lowering blood pressure.
CUTE: CAN BE ABSORBED! Redness. Blisters.
EYES: Redness. Ache.
INGESTION: Abdominal pain. Nausea. Sweating. (See also Inhalation).
LD50 (rat) Oral (mg/kg body weight) = 27
LD50 Dermal (rat or rabbit) (mg/kg body weight) = 20
CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 37

11.2. Information on other hazards

No data available.

SECTION 12: Ecological information

12.1. Toxicity

Related to contained substances:
sodium azide:
C(E)L50 (mg/L) = 0,7

Use according to good working practices, avoiding dispersing the product into the environment.

12.2. Persistence and degradability

Related to contained substances:
sodium azide:
For heating decomposes to sodium and nitrogen.
Azides and azoic acids (or hydrazenoic or hydrogen azide) are unstable and explosive. In the water, it suffers photolysis.
Does not undergo microbial degradation.

12.3. Bioaccumulative potential

Information not available

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

Based on the available data, no PBT or vPvB substances are present in accordance with Regulation (EC) 1907/2006, annex XIII.

12.6. Endocrine disrupting properties

Based on the available data, there are no substances that interfere with the Endocrine System in accordance with Regulation (EU) 2017/2100.

12.7. Other adverse effects

No adverse effects observed

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Do not reuse empty containers. Dispose of them in accordance with current regulations. Any product residues should be disposed of according to current regulations by contacting authorized companies. Recover if possible. Operate according to current local or national regulations.

SECTION 14: Transport information

14.1. UN number or ID number

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

No data available

14.7. Maritime transport in bulk according to IMO instruments

There is no provision for bulk transport

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No 1272/2008 of the European Parliament and of the council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Substances in the Candidate List (REACH Article 59)
Based on available data, no SVHC substances are present.

15.2. Chemical safety assessment

A chemical safety assessment has not been performed by the supplier

SECTION 16: Other information

All paragraphs are modified.

Description of the hazard statements exposed to point 3
H300 = Fatal if swallowed. H400 = Very toxic to aquatic life.
H410 = Very toxic to aquatic life with long lasting effects.
H410 = Very toxic to aquatic life with long lasting effects.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:
No hazard to report. Classification procedure: Calculation method

GENERAL BIBLIOGRAPHY
1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EC) 758/2013 of the European Parliament
4. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
5. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
6. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
7. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
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Note for users:
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This document must not be regarded as a guarantee on any specific product property.
The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

This SDS replaces and cancels all previous ones.

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Code: **NB12100**
Product name: **ZINCO_Standard 200 µg/dL (Reagent)**

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

Identified use: Reagent for in-vitro diagnostic
Uses advised against: Do not use for purposes other than those listed

1.3 Details of the supplier of the safety data sheet

Name **Mascia Brunelli S.p.A.**
Full address **Viale Monza, 272**
District and Country **20128 Milano (Milano)**
Italia

Tel. 0039 02 252091

e-mail address of the competent person

responsible for the Safety Data Sheet **mktg@masciabrunelli.it**

1.4 Emergency telephone number

For urgent inquiries refer to NHS111 in England: 111
NHS24 in Scotland: 111
NHS Direct in Wales: 111 or 0845 4647
In an emergency, if the patient has collapsed or is not breathing properly, call 999

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements).

Hazard classification and indication: --

2.2 Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms: --

Signal words: --

Hazard statements: --

Supplemental Hazard statement Code(s): --

Precautionary statements: --

2.3 Other hazards

Based on the available data, no PBT or vPvB substances are present in accordance with Regulation (EC) 1907/2006, annex XIII.

Based on the available data, there are no substances that interfere with the endocrine System in accordance with Regulation (EU) 2017/2100.

No information on other hazards.
This document is outside the scope of Article 31 of Reach.

SECTION 3: Composition/information on ingredients

3.1 Substances

Irrilevant

3.2 Mixtures

No substance to signal.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation: air the area. Immediately move the patient from the contaminated area and keep him at rest in a well-ventilated area. If you feel unwell seek medical advice.

Direct skin contact (of the pure product): wash thoroughly with soap and running water.

Direct eye contact (of pure product): wash immediately with plenty of water for at least 10 minutes.

Ingestion: not hazardous. It's possible to give activated charcoal in water or liquid paraffin medicine.

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

Information not available

4.3. Indication of any immediate medical attention and special treatment needed

Information not available

SECTION 5: Fire fighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT
The extinguishing equipment should be of the conventional kind: Foam. Dry powder. Carbon dioxide. Water spray, depending on the materials involved in the fire.
UNSUITABLE EXTINGUISHING EQUIPMENT
Water jets. Use 'water jets only to cool container surfaces exposed to fire.

5.2. Special hazards arising from the substance or mixture

Information not available

5.3. Advice for firefighters

Use respiratory protection. Safety helmet and full protective clothing. Water spray can be used to protect people engaged in extinguishing. It is also advisable to use self-contained breathing apparatus, especially, if working in enclosed and poorly ventilated places and in any case if halogenated extinguishing agents (Halon 1211 fluobrene, solkane 123, naf etc.) are used. Cool containers with jets of water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For those not taking direct action: Move away from the area surrounding the spill or release. Do not smoke. Wear gloves and protective clothing.

6.1.2 For direct interveners: Wear gloves and protective clothing. Eliminate all open flames and possible sources of ignition. Do not smoke. Provide adequate ventilation. Evacuate the hazard area and, if necessary, consult an expert.

6.2. Environmental precautions

Contain spill with earth or sand. If the product has entered a watercourse in sewers or has contaminated soil or vegetation, notify the appropriate authorities.
Dispose of the residue in accordance with applicable regulations.

6.3. Methods and material for containment and cleaning up

6.3.1 For containment. Collect the product for reuse, if possible, or for disposal. Possibly absorb it with inert material. Prevent it from entering the sewer system.

6.3.2 For cleanup. After collection, wash the affected area and materials with water.

6.3.3 Other information: None in particular.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact and inhalation of vapors.
Do not eat or drink while working.
See also section 8 below.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers upright and secure, avoiding the possibility of dropping or knocking. Store in a cool place, away from any source of heat and direct exposure to sunlight.

7.3. Specific end use(s)

Professional uses:
Handle with caution.
Store in ventilated place and away from heat sources.
Keep container tightly closed.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No data available.

8.2. Exposure controls

Suitable engineering controls:
Professional uses:
No specific controls provided

Personal protective measures:

HAND PROTECTION
When handling the pure product use chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3).

SKIN PROTECTION
Wear normal work clothing.

EYE PROTECTION
When handling the pure product use safety glasses (spectacles cage) (EN 166).

RESPIRATORY PROTECTION
None required for normal use.

THERMAL HAZARDS

No Hazard to report

ENVIRONMENTAL EXPOSURE CONTROLS
Use according to good working practices, avoiding spillage into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	Clear Liquid	
Colour	Colourless	
Odour	Odourless	
Melting point / freezing point	Not determined	
Initial boiling point	Not determined	
Flammability	Non determined	
Lower explosive limit	Not determined	
Upper explosive limit	Not determined	
Flash point	Not determined	
Auto-ignition temperature	Not determined	
pH	Not determined	
Kinematic viscosity	Not determined	
Solubility	Not determined	
Partition coefficient: n-octanol/water	Not determined	
Vapour pressure	Not determined	
Density and/or relative density	Not determined	
Relative vapour density	Not determined	
Particle characteristics	Not determined	

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Information not available

SECTION 10: Stability and reactivity

10.1. Reactivity

No reactivity hazards

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

Nothing to report

10.5. Incompatible materials

N/D

10.6. Hazardous decomposition products

Does not decompose when used for its intended uses.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

ATE(mix) oral = ∞
ATE(mix) dermal = ∞
ATE(mix) inhal = ∞

(a) acute toxicity: based on available data, the classification criteria are not met
(b) skin corrosion/dermal irritation: based on available data, the classification criteria are not met
(c) severe ocular damage/eye irritation: based on available data the classification criteria are not met
(d) respiratory or skin sensitization: based on available data the classification criteria are not met
(e) germ cell mutagenicity: based on available data the classification criteria are not met
(f) carcinogenicity: based on available data the classification criteria are not met
(g) reproductive toxicity: based on available data the classification criteria are not met
(h) specific target organ toxicity (STOT) single exposure: based on available data the classification criteria are not met
(i) specific target organ toxicity (STOT) repeated exposure: based on available data the classification criteria are not met
(j) aspiration hazard: based on available data, the classification criteria are not met.

11.2. Information on other hazards

No data available.

SECTION 12: Ecological information

12.1. Toxicity

Use according to good working practices, avoiding dispersing the product into the environment.

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

Information not available

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

Based on the available data, no PBT or vPvB substances are present in accordance with Regulation (EC) 1907/2006, annex XIII.

12.6. Endocrine disrupting properties

Based on the available data, there are no substances that interfere with the Endocrine System in accordance with Regulation (EU) 2017/2100.

12.7. Other adverse effects

No adverse effects observed

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Do not reuse empty containers. Dispose of them in accordance with current regulations. Any product residues should be disposed of according to current regulations by contacting authorized companies. Recover if possible. Operate according to current local or national regulations.

SECTION 14: Transport information

14.1. UN number or ID number

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

No data available

14.7. Maritime transport in bulk according to IMO instruments

There is no provision for bulk transport

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No 1272/2008 of the European Parliament and of the council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Substances in the Candidate List (REACH Article 59)
Based on available data, no SVHC substances are present.

15.2. Chemical safety assessment

A chemical safety assessment has not been performed by the supplier

SECTION 16: Other information

All paragraphs are modified.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:
No hazard to report. Classification procedure: Calculation method

GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EC) 758/2013 of the European Parliament
4. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
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