Material Safety Data Sheet
Optibodies
(Complies with the requirements of regulation (EC) no. 1907/2006 (REACH), annex II)
Version No. 3
Date of creation/revision: 2020-01-15

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

1.1. Product identifier

Product name
Optibodies product line

1.2. Use of substance/mixture
For the detection of specific molecules in biological samples. Research use only.

1.3. Company / undertaking information
Nordic Biosite AB
Propellervägen 4A
SE-183 62 TÄBY
Tel.: +46 (0)8 5444 3340
Email: info@nordicbiosite.com

1.4. Emergency telephone
For queries please contact telephone number +46 (0)8 5444 3340
business hours 8.30 a.m. to 5:00 p.m.
or
in case of emergency 112

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to (EC 1272/2008)
This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP].

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]
According to EC directives or the corresponding national regulations the product does not have to be labelled.

2.3. Other hazards
This mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixture

Sodium Azide	<0.1% (0.03%) / 15mM
CAS No.	26628-22-8
EC No.	247-852-1

Classification (EC 1272/2008)
EUH032
Acute Tox. 2 - H300
Aquatic Acute 1 - H400
Aquatic Chronic 1 - H410

Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) <0.0014%

CAS No.	55965-84-9
REACh No.	613-167-00-5

Classification (EC 1272/2008)
Acute Tox. 2, H330; Acute Tox. 2; H310; Acute Tox. 3, H301; Skin Corr. 1C, H314; Eye Dam 1, H318; Skin Sens. 1A, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; EUH071

Ethanediol	<10%
CAS No.	107-21-1/
EC No.	203-473-3/

Classification (EC 1272/2008)
Acute Tox. 4, H302; STOT RE 2 H373.8

3.3. Other information

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4. FIRST AID MEASURES

4.1. Description of first aid measures

General information
Remove contaminated, saturated clothing immediately. In the case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Inhalation
May cause irritation to mucous membranes. Move the exposed person to fresh air. When in doubt or if symptoms are observed, get medical advice.

Eye contact
May cause irritation to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.

Skin contact
May cause irritation to skin. Wash off immediately with plenty of soap and water. Remove contaminated clothing and wash it before reuse. Seek medical attention if irritation or symptoms persist.

Ingestion
May cause irritation to mucous membranes. Rinse mouth immediately and drink plenty of water. Seek medical attention if irritation or symptoms persist.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media
Suitable extinguishing media: Carbon dioxide (CO_2), foam, water, extinguishing powder.

5.2. Special hazards arising from the substance or mixture
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5.3. Advice for firefighters
Wear suitable respiratory equipment and chemical protective clothing. Co-ordinate fire-fighting measures to the fire surroundings.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions protective equipment and emergency procedures
Avoid inhalation of vapors or mist. Care for sufficient ventilation. Wear adequate personal protective equipment. Avoid contact with skin, eyes and clothes.

6.2 Environmental precautions
Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

6.3 Methods for cleaning
Clean contaminated objects and areas thoroughly observing environmental regulations. Absorb with inert, absorbent material. Sweep up.
Treat the recovered material as prescribed in the section on waste disposal.

6.4 Reference to other sections
Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Protective measures
Use in well-ventilated areas. Handle and open container with care. Always close containers tightly after the removal of product. Wear personal protective clothing (see Section 8).

Measures to prevent fire
This product is not flammable. No special fire protection measures are necessary.

Advice on general occupational hygiene
Avoid contact with skin, eyes and clothes. Provide eye shower and label its location conspicuously. If handled uncovered, arrangements with local exhaust ventilation should be used if possible.
Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff. Remove contaminated, saturated clothing immediately. Wash contaminated clothing prior to re-use.

7.2 Conditions for safe storage, including any incompatibilities
Keep containers tightly closed. Store in correctly labeled containers at recommended temperature.

7.3 Specific end use(s)
in vitro-diagnostic reagent or laboratory reagent

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Limit value type (country of origin)	Substance name	EC-No. CAS No.	Occupational exposure limit value		Monitoring and observation processes	Peak limitation	Source
			Long term	Short term			
IOELV (EU)	Ethanediol	203-473-3 107-21-1	52 mg/m^3, 20 ppm; skin	104 mg/m^3, 40 ppm; skin	-	-	2000/39/EC
IOELV (EU)	Sodium Azide	247-852-1 26628-22-8	0.1 mg/m^3	0.3 mg/m^3			2000/39/EC

8.2. Exposure controls

General protective and hygienic measures
No special ventilation procedures. Common ventilation should be sufficient. Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Change contaminated clothing.

Protective and hygiene measures
Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

Respiratory
In case of inadequate ventilation wear respiratory protection.

Hands
When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Tested protective gloves are to be worn: NBR (Nitrile rubber). The protective gloves to be used must comply with the specifications of Regulation (EU) 2016/425 and the related standard EN374.

Full contact: Glove material: Nitrile rubber
Glove thickness: 0.11 mm
Break through time: > 480 min
Splash contact: Glove material: Nitrile rubber
Glove thickness: 0.11 mm
Break through time: > 480 min

Eyes
To avoid exposition against liquid spills, mist, gases or dust wear safety goggles.

Body
Wear closed lab coat.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Colour	Opaque
Odour	Odourless
pH-Value (at 20 °C)	7,2 Test method: DIN 19268
Changes in the physical state	
Melting point	Not determined
Initial boiling point and boiling range	Not determined
Flash point	Not determined
Flammability	
Solid	Not determined
Gas	Not determined
Lower explosion limits	Not determined
Upper explosion limits	Not determined

Auto-ignition temperature	
Solid	Not determined
Gas	Not determined
Decomposition temperature	Not determined
Oxidizing properties	Not oxidizing
Vapour pressure	Not determined
Density	Not determined
Water solubility	Not determined
Solubility in other solvents	Not determined
Partition coefficient	Not determined
Vapour density	Not determined
Evaporation rate	Not determined

10. STABILITY AND REACTIVITY

10.1. Reactivity
No data available

10.2. Chemical stability
Stable under normal condition

10.3 Possibility of hazardous reactions
No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid
No specific conditions to avoid

10.5 Incompatible materials
No data available

10.6 Hazardous decomposition products
Does not decompose when used for intended uses.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects; mixture

Acute toxicity
Based on available data, the classification criteria are not met. Based on composition, the mixture has low acute toxicity and no adverse effects for human health are expected under applicable conditions of exposure.

Sodium Azide

LD50 Inhalation	Rat: 37 mg/m^3
LD50 Dermal	Rabbit: 20 mg/kg
LD50 Oral	Rat: 27 mg/kg

Ethanediol

LD50 Dermal	Mouse: >3500 mg/kg
LD50 Oral	Rat: >4500 mg/kg

5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

LD50 Oral	Rat 53 mg/kg

Skin corrosion/irritation
Based on available data, the classification criteria are not met.

Serious eye damage
Based on available data, the classification criteria are not met.

Respiratory or skin sensitization
Based on available data, the classification criteria are not met.

Germ cell mutagenicity
Based on available data, the classification criteria are not met.

Carcinogenicity
Based on available data, the classification criteria are not met.

Reproductive toxicity
Based on available data, the classification criteria are not met.

Specific target organ toxicity
Based on available data, the classification criteria are not met.

12. ECOLOGICAL INFORMATION

12.1 Toxicity
There are no data available for the ingredients.

12.2 Persistence and degradability
There are no data available for the ingredients.

12.3 Bioaccumulative potential
There are no data available for the ingredients.

12.4 Mobility in soil
There are no data available for the ingredients.

12.5 Results of PBT and vPvB assessment
This mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects:
There are no data available for the ingredients. Not classified as environmentally hazardous.

13. DISPOSAL CONSIDERATIONS

13.1 Waste disposal methods
Consider all national environmental protection requirements and waste disposal laws as well as local rules. Do not allow to enter into surface water or drains.

Waste disposal number of waste from residues/unused products
WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals
Classified as hazardous waste.

Contaminated packaging
Wash with plenty of water. Completely emptied packages can be recycled.

14. TRANSPORT INFORMATION

This product is not subject to the rules of the following traffic systems:
Street traffic: ADR (directive 94/55/EC)
Rail traffic: RID (directive 96/49/EC)
Sea traffic: IMDG
Air traffic: ICAO/IATA

15. REGULATORY INFORMATION

Identification according to European directives:
Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive, 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive, 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

No chemical safety assessment has been carried out.

16. OTHER INFORMATION

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.

Relevant H- and EUH-phrases (Number and full text)

H301	Toxic if swallowed.
H302	Harmful if swallowed
H310	Fatal in contact with skin.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation
H330	Fatal if inhaled
H331	Toxic if inhaled.
H373.8	May cause damage to kidneys through prolonged or repeated exposure if swallowed
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects
EUH032	Contact with acids liberates very toxic gas

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Eye Irrit.	Eye irritation
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitisation