

KITS SDS COVER SHEET

Product Information

| | |
|-----------------------------------|---|
| Product Description: | ImmunoCAP EDN Assay kit |
| Cat No. : | 10-9545-05 |
| Recommended Use | For research use only |
| Uses advised against | All other uses |
| Company | Phadia AB Rapsgatan 7P P.O. Box 6460 751 37 UPPSALA Sweden +46 18 16 50 00 |
| Emergency Telephone Number | CHEMTREC Ireland (Dublin) +(353)-19014670 CHEMTREC Belgium (Brussels) +(32)-28083237 Malta 112 Emergency phone number |
| E-mail address | safetydatasheet.idd@thermofisher.com |

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1. Product identifier**

Product Description: ImmunoCAP EDN U1302 anti-EDN

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

Recommended Use For research use only
Uses advised against All other uses

1.3. Details of the supplier of the safety data sheet

Company Phadia AB
Rapsgatan 7P
P.O. Box 6460
751 37 UPPSALA
Sweden
+46 18 16 50 00
E-mail address safetydatasheet.idd@thermofisher.com

1.4. Emergency telephone number

CHEMTREC Ireland (Dublin) +(353)-19014670
CHEMTREC Belgium (Brussels) +(32)-28083237
Malta 112 Emergency phone number

Section 2: HAZARDS IDENTIFICATION**2.1. Classification of the substance or mixture****CLP Classification - Regulation (EC) No 1272/2008****Physical hazards**

Based on available data, the classification criteria are not met

Health hazards

Based on available data, the classification criteria are not met

Environmental hazards

Based on available data, the classification criteria are not met

For the full text of the H-statements mentioned in this Section, see Section 16.

2.2. Label elements

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EUH208 - Contains (reaction mass 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); (CMIT/MIT (3:1))). May produce an allergic reaction.

2.3. Other hazards

May produce an allergic reaction. This product does not contain any known or suspected endocrine disruptors. This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

Section 3: Composition/information on ingredients

3.1. Substances

3.2. Mixtures

| Component | CAS No | EC No | Weight % | CLP Classification - Regulation (EC) No 1272/2008 |
|--|------------|-------|----------|--|
| 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone | 55965-84-9 | | <0.0015 | Acute Tox. 3 (H301) Acute Tox. 2 (H310) Acute Tox. 2 (H330) Skin Corr. 1C (H314) Eye Dam. 1 (H318) Skin Sens. 1A (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) EUH071 |

| Component | Specific concentration limits (SCL's) | M-Factor | Component notes |
|--|--|------------------------------|-----------------|
| 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone | Eye Irrit. 2 (H319) :: 0.06% ≤ C < 0.6% Skin Corr. 1C (H314) :: C ≥ 0.6% Skin Irrit. 2 (H315) :: 0.06% ≤ C < 0.6% Skin Sens. 1A (H317) :: C ≥ 0.0015% Eye Dam. 1 (H318) :: C ≥ 0.6% | 100 (acute) 100 (chronic) | - |

For the full text of the H-statements mentioned in this Section, see Section 16.

Section 4: First aid measures

4.1. Description of first aid measures

| | |
|--------------|--|
| Eye Contact | Rinse thoroughly with plenty of water, also under the eyelids. |
| Skin Contact | Wash off immediately with soap and plenty of water. |
| Ingestion | Clean mouth with water and drink afterwards plenty of water. |
| Inhalation | Not applicable. |

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Self-Protection of the First Aider Not Applicable.

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

No information available.

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

Notes to Physician Treat symptomatically.

Section 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Extinguishing media which must not be used for safety reasons

None known.

5.2. Special hazards arising from the substance or mixture

None known.

Hazardous Combustion Products

None known.

5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective gloves/clothing and eye/face protection.

6.2. Environmental precautions

Dispose of in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Wipe up with adsorbent material (e.g. cloth, fleece). Dispose of waste product or used containers according to local regulations.

6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

Section 7: Handling and storage

7.1. Precautions for safe handling

Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

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7.2. Conditions for safe storage, including any incompatibilities

Keep at temperatures between 2 and 8°C.

7.3. Specific end use(s)

Observe instructions for use.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits

List source(s): **CH** - The Government of Switzerland has set a directive on limit values for working materials (Grenzwerte am Arbeitsplatz) which is based on the Swiss Federal Regulation "Verordnung über die Verhütung von Unfällen und Berufskrankheiten". This directive is administered, periodically revised and enforced by SUVA (Swiss National Accident Insurance Fund).

| Component | Austria | Denmark | Switzerland | Poland | Norway |
|--|--|---------|--|--------|--------|
| 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone | MAK-TMW: 0.05 mg/m ³ 8 Stunden | | STEL: 0.4 mg/m ³ 15 Minuten TWA: 0.2 mg/m ³ 8 Stunden | | |

Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Monitoring methods

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

Derived Minimum Effect Level (DMEL) / Derived No Effect Level (DNEL)

See table for values

| Component | Acute effects local (Inhalation) | Acute effects systemic (Inhalation) | Chronic effects local (Inhalation) | Chronic effects systemic (Inhalation) |
|--|----------------------------------|-------------------------------------|------------------------------------|---------------------------------------|
| 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9 (<0.0015) | DNEL = 0.04mg/m ³ | | DNEL = 0.02mg/m ³ | |

Predicted No Effect Concentration (PNEC)

See values below.

| Component | Fresh water | Fresh water sediment | Water Intermittent | Microorganisms in sewage treatment | Soil (Agriculture) |
|-----------|-------------|----------------------|--------------------|------------------------------------|--------------------|
|-----------|-------------|----------------------|--------------------|------------------------------------|--------------------|

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| | | | | | |
|--|-----------------|-------------------------------|-----------------|-----------------|--------------------------|
| 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9 (<0.0015) | PNEC = 3.39µg/L | PNEC = 0.027mg/kg sediment dw | PNEC = 3.39µg/L | PNEC = 0.23mg/L | PNEC = 0.01mg/kg soil dw |
|--|-----------------|-------------------------------|-----------------|-----------------|--------------------------|

| Component | Marine water | Marine water sediment | Marine water Intermittent | Food chain | Air |
|--|-----------------|-------------------------------|---------------------------|------------|-----|
| 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9 (<0.0015) | PNEC = 3.39µg/L | PNEC = 0.027mg/kg sediment dw | PNEC = 3.39µg/L | | |

8.2. Exposure controls

Engineering Measures

None under normal use conditions.

Personal protective equipment

Eye Protection

No special protective equipment required.

Hand Protection

No special protective equipment required.

| Glove material | Breakthrough time | Glove thickness | EU standard | Glove comments |
|----------------|-------------------|-----------------|-------------|----------------|
| | | - | | |

Skin and body protection

No special protective equipment required.

Respiratory Protection

No protective equipment is needed under normal use conditions.

Large scale/emergency use

No protective equipment is needed under normal use conditions

Small scale/Laboratory use

No personal respiratory protective equipment normally required.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls

Dispose of contents/containers in accordance with local regulations.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--------------------------|--------------------------|
| Physical State | Liquid |
| Appearance | Transparent |
| Odor | None |
| Odor Threshold | None |
| Melting Point/Range | No data available |
| Softening Point | No data available |
| Boiling Point/Range | No data available |
| Flammability (liquid) | No data available |
| Flammability (solid,gas) | No information available |
| Explosion Limits | No data available |

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| | | | |
|---|--------------------------|-------------|--------------------------|
| Flash Point | No data available | Method - | No information available |
| Autoignition Temperature | No data available | | |
| Decomposition Temperature | No data available | | |
| pH | 7.2-7.6 | | |
| Viscosity | No data available | | |
| Water Solubility | Soluble in water | | |
| Solubility in other solvents | No information available | | |
| Partition Coefficient (n-octanol/water) | | | |
| Component | log Pow | | |
| 5-Chloro-2-methyl-3(2H)-isothiazolone, <0.401 mixture with 2-methyl-3(2H)-isothiazolone | | | |
| Vapor Pressure | No data available | | |
| Density / Specific Gravity | 1.1 g/cm3 | | |
| Bulk Density | No data available | | |
| Vapor Density | No data available | (Air = 1.0) | |
| Particle characteristics | Not applicable (liquid) | | |

9.2. Other information

Section 10: Stability and reactivity

10.1. Reactivity

None known.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

| | |
|--------------------------|--|
| Hazardous Polymerization | Hazardous polymerization does not occur. |
| Hazardous Reactions | None under normal processing. |

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

None known.

Section 11: Toxicological information

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

Product Information Product does not present an acute toxicity hazard based on known or supplied information.

(a) acute toxicity;

| | |
|------------|--------------------|
| Oral | No data available. |
| Dermal | No data available. |
| Inhalation | No data available. |

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|--|-------------------------|-------------------------------|----------------------|
| 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone | LD50 = 53 mg/kg (Rat) | LD50 = 87.12 mg/kg (Rabbit) | 4h 0.33 mg/l (Rat) |

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(b) skin corrosion/irritation; No data available.

(c) serious eye damage/irritation; No data available.

(d) respiratory or skin sensitization;

Respiratory No data available.

Skin No data available.

(e) germ cell mutagenicity; No data available.

| Component | Test method | Test species | Study result |
|--|---------------------|--------------|--------------|
| 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone | in vivo in vitro | | negative |

(f) carcinogenicity; There are no known carcinogenic chemicals in this product.

| Component | Test method | Test species / Duration | Study result |
|--|-------------|-------------------------|--------------|
| 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone | | | negative |

(g) reproductive toxicity; No data available.

| Component | Test method | Test species / Duration | Study result |
|--|-------------|-------------------------|--|
| 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone | | | negative Animal testing did not show any effects on fetal development |

(h) STOT-single exposure; No data available.

(i) STOT-repeated exposure; No data available.

(j) aspiration hazard; No data available.

Symptoms / effects, both acute and delayed No information available.

11.2. Information on other hazards

Endocrine Disrupting Properties This product does not contain any known or suspected endocrine disruptors.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity effects

| Component | Freshwater Fish | Water Flea | Freshwater Algae | Microtox |
|--|--|--|---|--|
| 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone | Acute toxicity: LC50 96 h 0.19mg/l (Oncorhynchus mykiss) EPA OPP 72-1 Chronic toxicity: NOEC 35 days 0.02 mg/l (Pimephales promelas) OECD 210 | Acute toxicity: EC50 48 h 0.126 mg/l (Daphnia magna) OECD Test 202 Chronic toxicity: NOEC 21 days 0.10 mg/l (Daphnia magna) | Acute toxicity: ERC50 72 h 0.027 mg/l (Selenastrum capricornutum) Chronic toxicity: NOEC 96h 0.004 mg/l, (Skeletonema costatum) OECD 201 | Chronic toxicity: NOEC 3h 0.91 mg/l (Activated sludge) OECD 209 |

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12.2. Persistence and degradability Product is biodegradable.

| Component | Degradability |
|--|---|
| 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone | Biodegradable <50 % 10 days Atmospheric half-life: 0.38-1.3 Days |

12.3. Bioaccumulative potential Bioaccumulation is unlikely.

| Component | log Pow | Bioconcentration factor (BCF) |
|--|---------|-------------------------------|
| 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone | <0.401 | <54 |

12.4. Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

12.6. Endocrine disrupting properties

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors

12.7. Other adverse effects

Persistent Organic Pollutant No known effect.
Ozone Depletion Potential No known effect.

Section 13: Disposal considerations

13.1. Waste treatment methods

Waste from Residues/Unused Products Dispose of in accordance with local regulations.

Contaminated Packaging Dispose of in accordance with local regulations.

European Waste Catalogue (EWC) 18 01 07 Chemicals other than those mentioned in 18 01 06.
Other Information No information available.

Section 14: Transport information

IMDG/IMO Not regulated

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

ADR Not regulated

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

IATA Not regulated

14.1. UN number

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ImmunoCAP EDN U1302 anti-EDN

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14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

No hazards identified.

14.6. Special precautions for user

No special precautions required.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable, packaged goods.

Section 15: Regulatory information

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

International Inventories

X = listed

| Component | EINECS | ELINCS | NLP | TSCA | DSL | NDSL | PICCS | ENCS | IECSC | AICS | KECL |
|--|--------|--------|-----|------|-----|------|-------|------|-------|------|----------|
| 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone | - | - | | - | X | - | X | X | X | - | KE-05738 |

| Component | REACH (1907/2006) - Annex XIV - Substances Subject to Authorization | REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances | REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC) |
|--|---|---|---|
| 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone | | Use restricted. See entry 75. (see link for restriction details) | |

| Component | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements |
|--|---|--|
| 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone | H1: 5-100 ton, E1: 20-200 ton | H1: 5-100 ton, E1: 20-200 ton |

Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals

Not applicable

National Regulations

| Component | Germany - Water Classification (AwSV) | Germany - TA-Luft Class |
|--|---------------------------------------|-------------------------|
| 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone | WGK3 | |

UK - Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment.

15.2. Chemical safety assessment

A Chemical Safety Assessment/Report (CSA/CSR) is not required.

Section 16: Other information

Full text of H-Statements referred to under sections 2 and 3

H301 - Toxic if swallowed

H310 - Fatal in contact with skin

H314 - Causes severe skin burns and eye damage

H317 - May cause an allergic skin reaction

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H318 - Causes serious eye damage
H330 - Fatal if inhaled
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
EUH071 - Corrosive to the respiratory tract
EUH208 - May produce an allergic reaction

Legend

CAS - Chemical Abstracts Service

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

IECSC - Chinese Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

ENCS - Japanese Existing and New Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

WEL - Workplace Exposure Limit

ACGIH - American Conference of Governmental Industrial Hygienists

DNEL - Derived No Effect Level

RPE - Respiratory Protective Equipment

LC50 - Lethal Concentration 50%

NOEC - No Observed Effect Concentration

PBT - Persistent, Bioaccumulative, Toxic

TWA - Time Weighted Average

IARC - International Agency for Research on Cancer

Predicted No Effect Concentration (PNEC)

LD50 - Lethal Dose 50%

EC50 - Effective Concentration 50%

POW - Partition coefficient Octanol:Water

vPvB - very Persistent, very Bioaccumulative

ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road

IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code

OECD - Organisation for Economic Co-operation and Development

BCF - Bioconcentration factor

Key literature references and sources for data

<https://echa.europa.eu/information-on-chemicals>

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

ICAO/IATA - International Civil Aviation Organization/International Air Transport Association

MARPOL - International Convention for the Prevention of Pollution from Ships

ATE - Acute Toxicity Estimate

VOC (volatile organic compound)

Physical hazards

On basis of test data

Health Hazards

Calculation method

Environmental hazards

Calculation method

Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Revision Date

25-Oct-2024

Revision Summary

SDS sections updated, 7.

**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006
COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No
1907/2006**

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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 process, unless specified in the text

End of Safety Data Sheet

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1. Product identifier**

Product Description: ImmunoCAP EDN Control

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

Recommended Use For research use only
Uses advised against All other uses

1.3. Details of the supplier of the safety data sheet

Company Phadia AB
Rapsgatan 7P
P.O. Box 6460
751 37 UPPSALA
Sweden
+46 18 16 50 00
E-mail address safetydatasheet.idd@thermofisher.com

1.4. Emergency telephone number

CHEMTREC Ireland (Dublin) +(353)-19014670
CHEMTREC Belgium (Brussels) +(32)-28083237
Malta 112 Emergency phone number

Section 2: HAZARDS IDENTIFICATION**2.1. Classification of the substance or mixture****CLP Classification - Regulation (EC) No 1272/2008****Physical hazards**

Based on available data, the classification criteria are not met

Health hazards

Based on available data, the classification criteria are not met

Environmental hazards

Based on available data, the classification criteria are not met

For the full text of the H-statements mentioned in this Section, see Section 16.

2.2. Label elements

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2.3. Other hazards

This product contains human sourced material. The donors have been tested and found to be non-reactive for HBsAg, HIV-1 Ag, anti-HCV and anti HIV-1/HIV-2. This product does not contain any known or suspected endocrine disruptors. This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB). This product contains human sourced material. The donors have been tested and found to be non-reactive for HBsAg, HIV-1 Ag, anti-HCV and anti HIV-1/HIV-2.

Section 3: Composition/information on ingredients

3.1. Substances

3.2. Mixtures

| Component | CAS No | EC No | Weight % | CLP Classification - Regulation (EC) No 1272/2008 |
|--------------------------|------------|-------------------|----------|--|
| Human proteins in buffer | - | | >99 | - |
| Sodium azide | 26628-22-8 | EEC No. 247-852-1 | <0.05 | Acute Tox. 2 (H300) (EUH032) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) |

| Component | Specific concentration limits (SCL's) | M-Factor | Component notes |
|--------------|---------------------------------------|----------|-----------------|
| Sodium azide | - | 1 | - |

For the full text of the H-statements mentioned in this Section, see Section 16.

Section 4: First aid measures

4.1. Description of first aid measures

| | |
|------------------------------------|--|
| Eye Contact | Rinse thoroughly with plenty of water, also under the eyelids. |
| Skin Contact | Wash off immediately with soap and plenty of water. |
| Ingestion | Rinse mouth. If possible drink milk afterwards. |
| Inhalation | Not applicable. |
| Self-Protection of the First Aider | Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. |

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

No information available.

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

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Notes to Physician

Treat symptomatically.

Section 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Extinguishing media which must not be used for safety reasons

None known.

5.2. Special hazards arising from the substance or mixture

None known.

Hazardous Combustion Products

None known.

5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective gloves/clothing and eye/face protection.

6.2. Environmental precautions

Dispose of in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Wipe up with adsorbent material (e.g. cloth, fleece). Dispose of waste product or used containers according to local regulations.

6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

Section 7: Handling and storage

7.1. Precautions for safe handling

Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Keep at temperatures between 2° and 8 °C.

7.3. Specific end use(s)

Observe instructions for use.

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Section 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits

List source(s): **EU** - Commission Directive (EU) 2019/1831 of 24 October 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC **CH** - The Government of Switzerland has set a directive on limit values for working materials (Grenzwerte am Arbeitsplatz) which is based on the Swiss Federal Regulation "Verordnung über die Verhütung von Unfällen und Berufskrankheiten". This directive is administered, periodically revised and enforced by SUVA (Swiss National Accident Insurance Fund).

| Component | European Union | The United Kingdom | France | Belgium | Spain |
|--------------|--|---|--|---|---|
| Sodium azide | TWA: 0.1 mg/m ³ (8h) STEL: 0.3 mg/m ³ (15min) Skin | STEL: 0.3 mg/m ³ 15 min TWA: 0.1 mg/m ³ 8 hr Skin | TWA / VME: 0.1 mg/m ³ (8 heures). restrictive limit STEL / VLCT: 0.3 mg/m ³ . restrictive limit Peau | TWA: 0.1 mg/m ³ 8 uren Huid | STEL / VLA-EC: 0.3 mg/m ³ (15 minutos). TWA / VLA-ED: 0.1 mg/m ³ (8 horas) Piel |

| Component | Italy | Germany | Portugal | The Netherlands | Finland |
|--------------|--|--|--|---|--|
| Sodium azide | TWA: 0.1 mg/m ³ 8 ore. Time Weighted Average STEL: 0.3 mg/m ³ 15 minuti. Short-term Pelle | TWA: 0.2 mg/m ³ (8 Stunden). AGW - exposure factor 2 TWA: 0.2 mg/m ³ (8 Stunden). MAK Höhepunkt: 0.4 mg/m ³ | STEL: 0.3 mg/m ³ 15 minutos Ceiling: 0.29 mg/m ³ Ceiling: 0.11 ppm TWA: 0.1 mg/m ³ 8 horas Pele | huid STEL: 0.3 mg/m ³ 15 minuten TWA: 0.1 mg/m ³ 8 uren | TWA: 0.1 mg/m ³ 8 tunteina STEL: 0.3 mg/m ³ 15 minuutteina Iho |

| Component | Austria | Denmark | Switzerland | Poland | Norway |
|--------------|--|--|--|---|--|
| Sodium azide | Haut MAK-KZGW: 0.3 mg/m ³ 15 Minuten MAK-TMW: 0.1 mg/m ³ 8 Stunden | TWA: 0.1 mg/m ³ 8 timer STEL: 0.3 mg/m ³ 15 minutter Hud | STEL: 0.4 mg/m ³ 15 Minuten TWA: 0.2 mg/m ³ 8 Stunden | STEL: 0.3 mg/m ³ 15 minutach TWA: 0.1 mg/m ³ 8 godzinach | TWA: 0.1 mg/m ³ 8 timer STEL: 0.3 mg/m ³ 15 minutter. value from the regulation |

| Component | Bulgaria | Croatia | Ireland | Cyprus | Czech Republic |
|--------------|---|---|--|--|--|
| Sodium azide | TWA: 0.1 mg/m ³ STEL : 0.3 mg/m ³ Skin notation | kože TWA-GVI: 0.1 mg/m ³ 8 satima. STEL-KGVI: 0.3 mg/m ³ 15 minutama. | TWA: 0.1 mg/m ³ 8 hr. STEL: 0.3 mg/m ³ 15 min Skin | Skin-potential for cutaneous absorption STEL: 0.3 mg/m ³ TWA: 0.1 mg/m ³ | TWA: 0.1 mg/m ³ 8 hodinách. Potential for cutaneous absorption Ceiling: 0.3 mg/m ³ |

| Component | Estonia | Gibraltar | Greece | Hungary | Iceland |
|--------------|---|--|--|---|---|
| Sodium azide | Nahk TWA: 0.1 mg/m ³ 8 tundides. STEL: 0.3 mg/m ³ 15 minutites. | Skin notation TWA: 0.1 mg/m ³ 8 hr STEL: 0.3 mg/m ³ 15 min | STEL: 0.1 ppm STEL: 0.3 mg/m ³ TWA: 0.1 ppm TWA: 0.3 mg/m ³ | STEL: 0.3 mg/m ³ 15 percekben. CK TWA: 0.1 mg/m ³ 8 órában. AK | STEL: 0.3 mg/m ³ TWA: 0.1 mg/m ³ 8 klukkustundum. Skin notation |

| Component | Latvia | Lithuania | Luxembourg | Malta | Romania |
|--------------|--|--|--|---|--|
| Sodium azide | skin - potential for cutaneous exposure STEL: 0.3 mg/m ³ TWA: 0.1 mg/m ³ | TWA: 0.1 mg/m ³ IPRD Oda STEL: 0.3 mg/m ³ | Possibility of significant uptake through the skin TWA: 0.1 mg/m ³ 8 Stunden STEL: 0.3 mg/m ³ 15 Minuten | possibility of significant uptake through the skin TWA: 0.1 mg/m ³ STEL: 0.3 mg/m ³ 15 minuti | Skin notation TWA: 0.1 mg/m ³ 8 ore STEL: 0.3 mg/m ³ 15 minute |

| Component | Russia | Slovak Republic | Slovenia | Sweden | Turkey |
|--------------|--------|--|---|--|--|
| Sodium azide | | Ceiling: 0.3 mg/m ³ Potential for cutaneous absorption TWA: 0.1 mg/m ³ | TWA: 0.1 mg/m ³ 8 urah Koža STEL: 0.3 mg/m ³ 15 minutah | Binding STEL: 0.3 mg/m ³ 15 minuter TLV: 0.1 mg/m ³ 8 timmar. NGV | Deri TWA: 0.1 mg/m ³ 8 saat STEL: 0.3 mg/m ³ 15 dakika |

Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

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Monitoring methods

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

Derived Minimum Effect Level (DMEL) / Derived No Effect Level (DNEL)

See table for values

| Component | Acute effects local (Dermal) | Acute effects systemic (Dermal) | Chronic effects local (Dermal) | Chronic effects systemic (Dermal) |
|--------------------------------------|------------------------------|---------------------------------|--------------------------------|-----------------------------------|
| Sodium azide 26628-22-8 (<0.05) | | | | DNEL = 46.7µg/kg bw/day |

| Component | Acute effects local (Inhalation) | Acute effects systemic (Inhalation) | Chronic effects local (Inhalation) | Chronic effects systemic (Inhalation) |
|--------------------------------------|----------------------------------|-------------------------------------|------------------------------------|---------------------------------------|
| Sodium azide 26628-22-8 (<0.05) | | | | DNEL = 0.164mg/m ³ |

Predicted No Effect Concentration (PNEC)

See values below.

| Component | Fresh water | Fresh water sediment | Water Intermittent | Microorganisms in sewage treatment | Soil (Agriculture) |
|--------------------------------------|-----------------|---------------------------------|--------------------|------------------------------------|--------------------|
| Sodium azide 26628-22-8 (<0.05) | PNEC = 0.35µg/L | PNEC = 16.7µg/kg sediment dw | PNEC = 3.5µg/L | PNEC = 30µg/L | |

| Component | Marine water | Marine water sediment | Marine water Intermittent | Food chain | Air |
|--------------------------------------|---------------|---------------------------------|---------------------------|------------|-----|
| Sodium azide 26628-22-8 (<0.05) | PNEC = 15ng/L | PNEC = 0.72µg/kg sediment dw | PNEC = 150ng/L | | |

8.2. Exposure controls

Engineering Measures

None under normal use conditions.

Personal protective equipment

Eye Protection

No special protective equipment required.

Hand Protection

Protective gloves.

| Glove material | Breakthrough time | Glove thickness | EU standard | Glove comments |
|----------------|-----------------------------------|-----------------|-------------|-----------------------|
| Nitrile rubber | See manufacturers recommendations | - | EN 374 | (minimum requirement) |

Skin and body protection

No special protective equipment required.

Respiratory Protection

No protective equipment is needed under normal use conditions.

Large scale/emergency use

No protective equipment is needed under normal use conditions

Small scale/Laboratory use

No personal respiratory protective equipment normally required.

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Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls Dispose of contents/containers in accordance with local regulations.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | | |
|---|--------------------------|-----------------------------------|
| Physical State | Liquid | |
| Appearance | Colorless to yellow | |
| Odor | None | |
| Odor Threshold | None | |
| Melting Point/Range | No data available | |
| Softening Point | No data available | |
| Boiling Point/Range | 100 °C | |
| Flammability (liquid) | No data available | |
| Flammability (solid,gas) | Not flammable | |
| Explosion Limits | Not applicable | |
| Flash Point | Not applicable | Method - No information available |
| Autoignition Temperature | Not applicable | |
| Decomposition Temperature | Not applicable | |
| pH | 7.0 | |
| Viscosity | No data available | |
| Water Solubility | Soluble in water | |
| Solubility in other solvents | No information available | |
| Partition Coefficient (n-octanol/water) | | |
| Component | log Pow | |
| Sodium azide | 0.3 | |
| Vapor Pressure | No data available | |
| Density / Specific Gravity | 1 g/cm3 | |
| Bulk Density | No data available | |
| Vapor Density | No data available | (Air = 1.0) |
| Particle characteristics | Not applicable (liquid) | |

9.2. Other information

| | |
|----------------------|----------------|
| Explosive Properties | Not applicable |
| Oxidizing Properties | Not applicable |

Section 10: Stability and reactivity

10.1. Reactivity None known.

10.2. Chemical stability Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous Polymerization Hazardous polymerization does not occur.
Hazardous Reactions None under normal processing.

10.4. Conditions to avoid None known.

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10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

None known.

Section 11: Toxicological information

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

Product Information Product does not present an acute toxicity hazard based on known or supplied information.

(a) acute toxicity;

Oral

No data available.

Dermal

No data available.

Inhalation

No data available.

Toxicology data for the components

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|--------------|-------------------------|---------------------|-----------------|
| Sodium azide | LD50 = 27 mg/kg (Rat) | 20 mg/kg (Rabbit) | 37 mg/l (Rat) |

(b) skin corrosion/irritation;

No data available.

(c) serious eye damage/irritation;

(d) respiratory or skin sensitization;

Respiratory

No data available.

Skin

No data available.

(e) germ cell mutagenicity;

No data available.

(f) carcinogenicity;

There are no known carcinogenic chemicals in this product.

| Component | Test method | Test species / Duration | Study result |
|--------------|-------------|-------------------------|--|
| Sodium azide | | | No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. |

(g) reproductive toxicity;

No data available.

(h) STOT-single exposure;

No data available.

(i) STOT-repeated exposure;

No data available.

(j) aspiration hazard;

No data available.

| Component | Other Adverse Effects |
|--------------|--|
| Sodium azide | Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing. Harmful to central nervous system and heart. Fatal if swallowed. |

Symptoms / effects, both acute and delayed No information available.

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11.2. Information on other hazards

Endocrine Disrupting Properties This product does not contain any known or suspected endocrine disruptors.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity effects No information available.

| Component | Freshwater Fish | Water Flea | Freshwater Algae | Microtox |
|--------------|--|---|----------------------------------|---|
| Sodium azide | LC50 96 h 0.7 mg/L LC50 96 h LC50 0.7 mg/l 96 H (Lepomis macrochirus) | EC50 4.2 mg/l 48 h (Daphnia pulex) | IC50 272 mg/l (green algae) | EC50 38.5 mg/l (Photobacterium phosphoreum) |

12.2. Persistence and degradability No information available.

12.3. Bioaccumulative potential No information available.

| Component | log Pow | Bioconcentration factor (BCF) |
|--------------|---------|-------------------------------|
| Sodium azide | 0.3 | |

12.4. Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB). This product contains human sourced material. The donors have been tested and found to be non-reactive for HBsAg, HIV-1 Ag, anti-HCV and anti HIV-1/HIV-2.

12.6. Endocrine disrupting properties

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors

12.7. Other adverse effects

Persistent Organic Pollutant No known effect.
Ozone Depletion Potential No known effect.

Section 13: Disposal considerations

13.1. Waste treatment methods

Waste from Residues/Unused Products Dispose of in accordance with local regulations.

Contaminated Packaging Dispose of in accordance with local regulations.

European Waste Catalogue (EWC) 18 01 07 Chemicals other than those mentioned in 18 01 06.
Other Information No information available.

Section 14: Transport information

IMDG/IMO Not regulated

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14.1. UN number
14.2. UN proper shipping name
14.3. Transport hazard class(es)
14.4. Packing group

ADR Not regulated

14.1. UN number
14.2. UN proper shipping name
14.3. Transport hazard class(es)
14.4. Packing group

IATA Not regulated

14.1. UN number
14.2. UN proper shipping name
14.3. Transport hazard class(es)
14.4. Packing group

14.5. Environmental hazards No hazards identified.
14.6. Special precautions for user No special precautions required.
14.7. Maritime transport in bulk according to IMO instruments Not applicable, packaged goods.

Section 15: Regulatory information

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

International Inventories X = listed

| Component | EINECS | ELINCS | NLP | TSCA | DSL | NDSL | PICCS | ENCS | IECSC | AICS | KECL |
|--------------|-----------|--------|-----|------|-----|------|-------|------|-------|------|--------------|
| Sodium azide | 247-852-1 | - | | X | X | - | X | X | X | X | KE-3135 7 |

| Component | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements |
|--------------|---|--|
| Sodium azide | H2 50-200 ton, E1 100-200 ton | H2 50-200 ton, E1 100-200 ton |

Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals
Not applicable

National Regulations

| Component | Germany - Water Classification (AwSV) | Germany - TA-Luft Class |
|--------------|---------------------------------------|-------------------------|
| Sodium azide | WGK2 | |

UK - Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment.
Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values .

15.2. Chemical safety assessment

A Chemical Safety Assessment/Report (CSA/CSR) is not required.

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Section 16: Other information

Full text of H-Statements referred to under sections 2 and 3

H300 - Fatal 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

Legend

CAS - Chemical Abstracts Service

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

IECSC - Chinese Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

ENCS - Japanese Existing and New Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

WEL - Workplace Exposure Limit

ACGIH - American Conference of Governmental Industrial Hygienists

DNEL - Derived No Effect Level

RPE - Respiratory Protective Equipment

LC50 - Lethal Concentration 50%

NOEC - No Observed Effect Concentration

PBT - Persistent, Bioaccumulative, Toxic

TWA - Time Weighted Average

IARC - International Agency for Research on Cancer
Predicted No Effect Concentration (PNEC)

LD50 - Lethal Dose 50%

EC50 - Effective Concentration 50%

POW - Partition coefficient Octanol:Water

vPvB - very Persistent, very Bioaccumulative

ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road

IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code

OECD - Organisation for Economic Co-operation and Development

BCF - Bioconcentration factor

Key literature references and sources for data

<https://echa.europa.eu/information-on-chemicals>

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

ICAO/IATA - International Civil Aviation Organization/International Air Transport Association

MARPOL - International Convention for the Prevention of Pollution from Ships

ATE - Acute Toxicity Estimate

VOC (volatile organic compound)

Physical hazards

On basis of test data

Health Hazards

Calculation method

Environmental hazards

Calculation method

Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Revision Date

25-Oct-2024

Revision Summary

SDS sections updated, 1, 3, 16.

**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006
COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No
1907/2006**

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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 process, unless specified in the text

End of Safety Data Sheet

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1. Product identifier**

Product Description: ImmunoCAP EDN Conjugate 100

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

Recommended Use For research use only
Uses advised against All other uses

1.3. Details of the supplier of the safety data sheet

Company Phadia AB
Rapsgatan 7P
P.O. Box 6460
751 37 UPPSALA
Sweden
+46 18 16 50 00
E-mail address safetydatasheet.idd@thermofisher.com

1.4. Emergency telephone number

CHEMTREC Ireland (Dublin) +(353)-19014670
CHEMTREC Belgium (Brussels) +(32)-28083237
Malta 112 Emergency phone number

Section 2: HAZARDS IDENTIFICATION**2.1. Classification of the substance or mixture****CLP Classification - Regulation (EC) No 1272/2008****Physical hazards**

Based on available data, the classification criteria are not met

Health hazards

Based on available data, the classification criteria are not met

Environmental hazards

Based on available data, the classification criteria are not met

For the full text of the H-statements mentioned in this Section, see Section 16.

2.2. Label elements

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2.3. Other hazards

This product does not contain any known or suspected endocrine disruptors.

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

Section 3: Composition/information on ingredients

3.1. Substances

3.2. Mixtures

| Component | CAS No | EC No | Weight % | CLP Classification - Regulation (EC) No 1272/2008 |
|--------------|------------|-------------------|----------|---|
| Sodium azide | 26628-22-8 | EEC No. 247-852-1 | <0.1 | Acute Tox. 2 (H300) (EUH032) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) |

| Component | Specific concentration limits (SCL's) | M-Factor | Component notes |
|--------------|---------------------------------------|----------|-----------------|
| Sodium azide | - | 1 | - |

For the full text of the H-statements mentioned in this Section, see Section 16.

Section 4: First aid measures

4.1. Description of first aid measures

| | |
|---|--|
| Eye Contact | Rinse thoroughly with plenty of water, also under the eyelids. |
| Skin Contact | Wash off immediately with soap and plenty of water. |
| Ingestion | Rinse mouth. If possible drink milk afterwards. |
| Inhalation | Not applicable. |
| Self-Protection of the First Aider | Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. |

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

No information available.

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

| | |
|---------------------------|------------------------|
| Notes to Physician | Treat symptomatically. |
|---------------------------|------------------------|

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Section 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Extinguishing media which must not be used for safety reasons

None known.

5.2. Special hazards arising from the substance or mixture

None known.

Hazardous Combustion Products

None known.

5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective gloves/clothing and eye/face protection.

6.2. Environmental precautions

Dispose of in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Wipe up with adsorbent material (e.g. cloth, fleece). Dispose of waste product or used containers according to local regulations.

6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

Section 7: Handling and storage

7.1. Precautions for safe handling

Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Keep at temperatures between 2 and 8°C.

7.3. Specific end use(s)

Observe instructions for use.

Section 8: Exposure controls/personal protection

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8.1. Control parameters

Exposure limits

List source(s): **EU** - Commission Directive (EU) 2019/1831 of 24 October 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC **CH** - The Government of Switzerland has set a directive on limit values for working materials (Grenzwerte am Arbeitsplatz) which is based on the Swiss Federal Regulation "Verordnung über die Verhütung von Unfällen und Berufskrankheiten". This directive is administered, periodically revised and enforced by SUVA (Swiss National Accident Insurance Fund).

| Component | European Union | The United Kingdom | France | Belgium | Spain |
|--------------|--|---|--|---|---|
| Sodium azide | TWA: 0.1 mg/m ³ (8h) STEL: 0.3 mg/m ³ (15min) Skin | STEL: 0.3 mg/m ³ 15 min TWA: 0.1 mg/m ³ 8 hr Skin | TWA / VME: 0.1 mg/m ³ (8 heures). restrictive limit STEL / VLCT: 0.3 mg/m ³ . restrictive limit Peau | TWA: 0.1 mg/m ³ 8 uren Huid | STEL / VLA-EC: 0.3 mg/m ³ (15 minutos). TWA / VLA-ED: 0.1 mg/m ³ (8 horas) Piel |

| Component | Italy | Germany | Portugal | The Netherlands | Finland |
|--------------|--|--|--|---|--|
| Sodium azide | TWA: 0.1 mg/m ³ 8 ore. Time Weighted Average STEL: 0.3 mg/m ³ 15 minuti. Short-term Pelle | TWA: 0.2 mg/m ³ (8 Stunden). AGW - exposure factor 2 TWA: 0.2 mg/m ³ (8 Stunden). MAK Höhepunkt: 0.4 mg/m ³ | STEL: 0.3 mg/m ³ 15 minutos Ceiling: 0.29 mg/m ³ Ceiling: 0.11 ppm TWA: 0.1 mg/m ³ 8 horas Pele | huid STEL: 0.3 mg/m ³ 15 minuten TWA: 0.1 mg/m ³ 8 uren | TWA: 0.1 mg/m ³ 8 tunteina STEL: 0.3 mg/m ³ 15 minuutteina Iho |

| Component | Austria | Denmark | Switzerland | Poland | Norway |
|--------------|--|--|--|---|--|
| Sodium azide | Haut MAK-KZGW: 0.3 mg/m ³ 15 Minuten MAK-TMW: 0.1 mg/m ³ 8 Stunden | TWA: 0.1 mg/m ³ 8 timer STEL: 0.3 mg/m ³ 15 minutter Hud | STEL: 0.4 mg/m ³ 15 Minuten TWA: 0.2 mg/m ³ 8 Stunden | STEL: 0.3 mg/m ³ 15 minutach TWA: 0.1 mg/m ³ 8 godzinach | TWA: 0.1 mg/m ³ 8 timer STEL: 0.3 mg/m ³ 15 minutter. value from the regulation |

| Component | Bulgaria | Croatia | Ireland | Cyprus | Czech Republic |
|--------------|---|---|--|--|--|
| Sodium azide | TWA: 0.1 mg/m ³ STEL : 0.3 mg/m ³ Skin notation | kože TWA-GVI: 0.1 mg/m ³ 8 satima. STEL-KGVI: 0.3 mg/m ³ 15 minutama. | TWA: 0.1 mg/m ³ 8 hr. STEL: 0.3 mg/m ³ 15 min Skin | Skin-potential for cutaneous absorption STEL: 0.3 mg/m ³ TWA: 0.1 mg/m ³ | TWA: 0.1 mg/m ³ 8 hodinách. Potential for cutaneous absorption Ceiling: 0.3 mg/m ³ |

| Component | Estonia | Gibraltar | Greece | Hungary | Iceland |
|--------------|---|--|--|---|---|
| Sodium azide | Nahk TWA: 0.1 mg/m ³ 8 tundides. STEL: 0.3 mg/m ³ 15 minutites. | Skin notation TWA: 0.1 mg/m ³ 8 hr STEL: 0.3 mg/m ³ 15 min | STEL: 0.1 ppm STEL: 0.3 mg/m ³ TWA: 0.1 ppm TWA: 0.3 mg/m ³ | STEL: 0.3 mg/m ³ 15 percekbén. CK TWA: 0.1 mg/m ³ 8 órában. AK | STEL: 0.3 mg/m ³ TWA: 0.1 mg/m ³ 8 klukkustundum. Skin notation |

| Component | Latvia | Lithuania | Luxembourg | Malta | Romania |
|--------------|--|---|--|---|--|
| Sodium azide | skin - potential for cutaneous exposure STEL: 0.3 mg/m ³ TWA: 0.1 mg/m ³ | TWA: 0.1 mg/m ³ IPRD Oda STEL: 0.3 mg/m ³ | Possibility of significant uptake through the skin TWA: 0.1 mg/m ³ 8 Stunden STEL: 0.3 mg/m ³ 15 Minuten | possibility of significant uptake through the skin TWA: 0.1 mg/m ³ STEL: 0.3 mg/m ³ 15 minuti | Skin notation TWA: 0.1 mg/m ³ 8 ore STEL: 0.3 mg/m ³ 15 minute |

| Component | Russia | Slovak Republic | Slovenia | Sweden | Turkey |
|--------------|--------|--|---|--|--|
| Sodium azide | | Ceiling: 0.3 mg/m ³ Potential for cutaneous absorption TWA: 0.1 mg/m ³ | TWA: 0.1 mg/m ³ 8 urah Koža STEL: 0.3 mg/m ³ 15 minutah | Binding STEL: 0.3 mg/m ³ 15 minuter TLV: 0.1 mg/m ³ 8 timmar. NGV | Deri TWA: 0.1 mg/m ³ 8 saat STEL: 0.3 mg/m ³ 15 dakika |

Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

SAFETY DATA SHEET

ImmunoCAP EDN Conjugate 100

Revision Date 25-Oct-2024

Monitoring methods

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

Derived Minimum Effect Level (DMEL) / Derived No Effect Level (DNEL)

See table for values

| Component | Acute effects local (Dermal) | Acute effects systemic (Dermal) | Chronic effects local (Dermal) | Chronic effects systemic (Dermal) |
|-------------------------------------|------------------------------|---------------------------------|--------------------------------|-----------------------------------|
| Sodium azide 26628-22-8 (<0.1) | | | | DNEL = 46.7µg/kg bw/day |

| Component | Acute effects local (Inhalation) | Acute effects systemic (Inhalation) | Chronic effects local (Inhalation) | Chronic effects systemic (Inhalation) |
|-------------------------------------|----------------------------------|-------------------------------------|------------------------------------|---------------------------------------|
| Sodium azide 26628-22-8 (<0.1) | | | | DNEL = 0.164mg/m ³ |

Predicted No Effect Concentration (PNEC)

See values below.

| Component | Fresh water | Fresh water sediment | Water Intermittent | Microorganisms in sewage treatment | Soil (Agriculture) |
|-------------------------------------|-----------------|---------------------------------|--------------------|------------------------------------|--------------------|
| Sodium azide 26628-22-8 (<0.1) | PNEC = 0.35µg/L | PNEC = 16.7µg/kg sediment dw | PNEC = 3.5µg/L | PNEC = 30µg/L | |

| Component | Marine water | Marine water sediment | Marine water Intermittent | Food chain | Air |
|-------------------------------------|---------------|---------------------------------|---------------------------|------------|-----|
| Sodium azide 26628-22-8 (<0.1) | PNEC = 15ng/L | PNEC = 0.72µg/kg sediment dw | PNEC = 150ng/L | | |

8.2. Exposure controls

Engineering Measures

None under normal use conditions.

Personal protective equipment

Eye Protection

No special protective equipment required.

Hand Protection

No special protective equipment required.

| Glove material | Breakthrough time | Glove thickness | EU standard | Glove comments |
|----------------|-------------------|-----------------|-------------|----------------|
| | | - | | |

Skin and body protection

No special protective equipment required.

Respiratory Protection

No protective equipment is needed under normal use conditions.

Large scale/emergency use

No protective equipment is needed under normal use conditions

Small scale/Laboratory use

No personal respiratory protective equipment normally required.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

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Environmental exposure controls Dispose of contents/containers in accordance with local regulations.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | | |
|---|--------------------------|-----------------------------------|
| Physical State | Liquid | |
| Appearance | Blue | |
| Odor | None | |
| Odor Threshold | None | |
| Melting Point/Range | No data available | |
| Softening Point | No data available | |
| Boiling Point/Range | 100 °C | |
| Flammability (liquid) | No data available | |
| Flammability (solid,gas) | Not flammable | |
| Explosion Limits | Not applicable | |
| Flash Point | Not applicable | Method - No information available |
| Autoignition Temperature | Not applicable | |
| Decomposition Temperature | Not applicable | |
| pH | 7.4 | |
| Viscosity | No data available | |
| Water Solubility | Soluble in water | |
| Solubility in other solvents | No information available | |
| Partition Coefficient (n-octanol/water) | | |
| Component | log Pow | |
| Sodium azide | 0.3 | |
| Vapor Pressure | No data available | |
| Density / Specific Gravity | 1 g/cm3 | |
| Bulk Density | No data available | |
| Vapor Density | No data available | (Air = 1.0) |
| Particle characteristics | Not applicable (liquid) | |

9.2. Other information

| | |
|----------------------|----------------|
| Explosive Properties | Not applicable |
| Oxidizing Properties | Not applicable |

Section 10: Stability and reactivity

| | |
|------------------|-------------|
| 10.1. Reactivity | None known. |
|------------------|-------------|

| | |
|--------------------------|---------------------------------|
| 10.2. Chemical stability | Stable under normal conditions. |
|--------------------------|---------------------------------|

10.3. Possibility of hazardous reactions

| | |
|--------------------------|--|
| Hazardous Polymerization | Hazardous polymerization does not occur. |
| Hazardous Reactions | None under normal processing. |

| | |
|---------------------------|-------------|
| 10.4. Conditions to avoid | None known. |
|---------------------------|-------------|

| | |
|------------------------------|-------------|
| 10.5. Incompatible materials | None known. |
|------------------------------|-------------|

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10.6. Hazardous decomposition products

None known.

Section 11: Toxicological information

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

Product Information Product does not present an acute toxicity hazard based on known or supplied information.

(a) acute toxicity;

Oral No data available.
Dermal No data available.
Inhalation No data available.

Toxicology data for the components

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|--------------|-------------------------|---------------------|-----------------|
| Sodium azide | LD50 = 27 mg/kg (Rat) | 20 mg/kg (Rabbit) | 37 mg/l (Rat) |

(b) skin corrosion/irritation; No data available.

(c) serious eye damage/irritation;

(d) respiratory or skin sensitization;

Respiratory No data available.
Skin No data available.

(e) germ cell mutagenicity; No data available.

(f) carcinogenicity; There are no known carcinogenic chemicals in this product.

| Component | Test method | Test species / Duration | Study result |
|--------------|-------------|-------------------------|--|
| Sodium azide | | | No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. |

(g) reproductive toxicity; No data available.

(h) STOT-single exposure; No data available.

(i) STOT-repeated exposure; No data available.

(j) aspiration hazard; No data available.

| Component | Other Adverse Effects |
|--------------|--|
| Sodium azide | Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing. Harmful to central nervous system and heart. Fatal if swallowed. |

Symptoms / effects, both acute and delayed No information available.

11.2. Information on other hazards

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Endocrine Disrupting Properties This product does not contain any known or suspected endocrine disruptors.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity effects No information available.

| Component | Freshwater Fish | Water Flea | Freshwater Algae | Microtox |
|--------------|---|------------------------------------|-----------------------------|---|
| Sodium azide | LC50 96 h 0.7 mg/L LC50 96 h LC50 0.7 mg/l 96 H (Lepomis macrochirus) | EC50 4.2 mg/l 48 h (Daphnia pulex) | IC50 272 mg/l (green algae) | EC50 38.5 mg/l (Photobacterium phosphoreum) |

12.2. Persistence and degradability No information available.

12.3. Bioaccumulative potential No information available.

| Component | log Pow | Bioconcentration factor (BCF) |
|--------------|---------|-------------------------------|
| Sodium azide | 0.3 | |

12.4. Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

12.6. Endocrine disrupting properties

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors

12.7. Other adverse effects

Persistent Organic Pollutant No known effect.
Ozone Depletion Potential No known effect.

Section 13: Disposal considerations

13.1. Waste treatment methods

Waste from Residues/Unused Products Dispose of in accordance with local regulations.

Contaminated Packaging Dispose of in accordance with local regulations.

European Waste Catalogue (EWC) 18 01 07 Chemicals other than those mentioned in 18 01 06.
Other Information No information available.

Section 14: Transport information

IMDG/IMO Not regulated

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

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ADR Not regulated

14.1. UN number
14.2. UN proper shipping name
14.3. Transport hazard class(es)
14.4. Packing group

IATA Not regulated

14.1. UN number
14.2. UN proper shipping name
14.3. Transport hazard class(es)
14.4. Packing group

14.5. Environmental hazards No hazards identified.

14.6. Special precautions for user No special precautions required.

14.7. Maritime transport in bulk according to IMO instruments Not applicable, packaged goods.

Section 15: Regulatory information

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

International Inventories X = listed

| Component | EINECS | ELINCS | NLP | TSCA | DSL | NDSL | PICCS | ENCS | IECSC | AICS | KECL |
|--------------|-----------|--------|-----|------|-----|------|-------|------|-------|------|--------------|
| Sodium azide | 247-852-1 | - | | X | X | - | X | X | X | X | KE-3135 7 |

| Component | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements |
|--------------|---|--|
| Sodium azide | H2 50-200 ton, E1 100-200 ton | H2 50-200 ton, E1 100-200 ton |

Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals
Not applicable

National Regulations

| Component | Germany - Water Classification (AwSV) | Germany - TA-Luft Class |
|--------------|---------------------------------------|-------------------------|
| Sodium azide | WGK2 | |

UK - Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment.
Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values .

15.2. Chemical safety assessment

A Chemical Safety Assessment/Report (CSA/CSR) is not required.

Section 16: Other information

Full text of H-Statements referred to under sections 2 and 3

H300 - Fatal if swallowed
H400 - Very toxic to aquatic life

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H410 - Very toxic to aquatic life with long lasting effects
EUH032 - Contact with acids liberates very toxic gas

Legend

CAS - Chemical Abstracts Service

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

IECSC - Chinese Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

ENCS - Japanese Existing and New Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

WEL - Workplace Exposure Limit

ACGIH - American Conference of Governmental Industrial Hygienists

DNEL - Derived No Effect Level

RPE - Respiratory Protective Equipment

LC50 - Lethal Concentration 50%

NOEC - No Observed Effect Concentration

PBT - Persistent, Bioaccumulative, Toxic

TWA - Time Weighted Average

IARC - International Agency for Research on Cancer
Predicted No Effect Concentration (PNEC)

LD50 - Lethal Dose 50%

EC50 - Effective Concentration 50%

POW - Partition coefficient Octanol:Water

vPvB - very Persistent, very Bioaccumulative

ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road

IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code

OECD - Organisation for Economic Co-operation and Development

BCF - Bioconcentration factor

Key literature references and sources for data

<https://echa.europa.eu/information-on-chemicals>

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

ICAO/IATA - International Civil Aviation Organization/International Air Transport Association

MARPOL - International Convention for the Prevention of Pollution from Ships

ATE - Acute Toxicity Estimate

VOC (volatile organic compound)

Physical hazards

On basis of test data

Health Hazards

Calculation method

Environmental hazards

Calculation method

Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Revision Date

25-Oct-2024

Revision Summary

Update to CLP Format, SDS sections updated, 1.

**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006
COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No
1907/2006**

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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 process, unless specified in the text

End of Safety Data Sheet

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

1.1. Product identifier

Product Description: ImmunoCAP EDN Calibrator Strip

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

Recommended Use For research use only
Uses advised against All other uses

1.3. Details of the supplier of the safety data sheet

Company Phadia AB
Rapsgatan 7P
P.O. Box 6460
751 37 UPPSALA
Sweden
+46 18 16 50 00
E-mail address safetydatasheet.idd@thermofisher.com

1.4. Emergency telephone number

CHEMTREC Ireland (Dublin) +(353)-19014670
CHEMTREC Belgium (Brussels) +(32)-28083237
Malta 112 Emergency phone number

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP Classification - Regulation (EC) No 1272/2008

Physical hazards

Based on available data, the classification criteria are not met

Health hazards

Based on available data, the classification criteria are not met

Environmental hazards

Based on available data, the classification criteria are not met

For the full text of the H-statements mentioned in this Section, see Section 16.

2.2. Label elements

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2.3. Other hazards

This product contains human sourced material. The donors have been tested and found to be non-reactive for HBsAg, HIV-1 Ag, anti-HCV and anti HIV-1/HIV-2. This product does not contain any known or suspected endocrine disruptors. This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB). This product contains human sourced material. The donors have been tested and found to be non-reactive for HBsAg, HIV-1 Ag, anti-HCV and anti HIV-1/HIV-2.

Section 3: Composition/information on ingredients

3.1. Substances

3.2. Mixtures

| Component | CAS No | EC No | Weight % | CLP Classification - Regulation (EC) No 1272/2008 |
|--------------------------|------------|-------------------|----------|--|
| Human proteins in buffer | - | | >99 | - |
| Sodium azide | 26628-22-8 | EEC No. 247-852-1 | <0.05 | Acute Tox. 2 (H300) (EUH032) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) |

| Component | Specific concentration limits (SCL's) | M-Factor | Component notes |
|--------------|---------------------------------------|----------|-----------------|
| Sodium azide | - | 1 | - |

For the full text of the H-statements mentioned in this Section, see Section 16.

Section 4: First aid measures

4.1. Description of first aid measures

| | |
|------------------------------------|--|
| Eye Contact | Rinse thoroughly with plenty of water, also under the eyelids. |
| Skin Contact | Wash off immediately with soap and plenty of water. |
| Ingestion | Rinse mouth. If possible drink milk afterwards. |
| Inhalation | Not applicable. |
| Self-Protection of the First Aider | Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. |

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

No information available.

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

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Notes to Physician

Treat symptomatically.

Section 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Extinguishing media which must not be used for safety reasons

None known.

5.2. Special hazards arising from the substance or mixture

None known.

Hazardous Combustion Products

None known.

5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective gloves/clothing and eye/face protection.

6.2. Environmental precautions

Dispose of in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Wipe up with adsorbent material (e.g. cloth, fleece). Dispose of waste product or used containers according to local regulations.

6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

Section 7: Handling and storage

7.1. Precautions for safe handling

Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Keep at temperatures between 2° and 8 °C.

7.3. Specific end use(s)

Observe instructions for use.

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Section 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits

List source(s): **EU** - Commission Directive (EU) 2019/1831 of 24 October 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC **CH** - The Government of Switzerland has set a directive on limit values for working materials (Grenzwerte am Arbeitsplatz) which is based on the Swiss Federal Regulation "Verordnung über die Verhütung von Unfällen und Berufskrankheiten". This directive is administered, periodically revised and enforced by SUVA (Swiss National Accident Insurance Fund).

| Component | European Union | The United Kingdom | France | Belgium | Spain |
|--------------|--|---|--|---|---|
| Sodium azide | TWA: 0.1 mg/m ³ (8h) STEL: 0.3 mg/m ³ (15min) Skin | STEL: 0.3 mg/m ³ 15 min TWA: 0.1 mg/m ³ 8 hr Skin | TWA / VME: 0.1 mg/m ³ (8 heures). restrictive limit STEL / VLCT: 0.3 mg/m ³ . restrictive limit Peau | TWA: 0.1 mg/m ³ 8 uren Huid | STEL / VLA-EC: 0.3 mg/m ³ (15 minutos). TWA / VLA-ED: 0.1 mg/m ³ (8 horas) Piel |

| Component | Italy | Germany | Portugal | The Netherlands | Finland |
|--------------|--|--|--|---|--|
| Sodium azide | TWA: 0.1 mg/m ³ 8 ore. Time Weighted Average STEL: 0.3 mg/m ³ 15 minuti. Short-term Pelle | TWA: 0.2 mg/m ³ (8 Stunden). AGW - exposure factor 2 TWA: 0.2 mg/m ³ (8 Stunden). MAK Höhepunkt: 0.4 mg/m ³ | STEL: 0.3 mg/m ³ 15 minutos Ceiling: 0.29 mg/m ³ Ceiling: 0.11 ppm TWA: 0.1 mg/m ³ 8 horas Pele | huid STEL: 0.3 mg/m ³ 15 minuten TWA: 0.1 mg/m ³ 8 uren | TWA: 0.1 mg/m ³ 8 tunteina STEL: 0.3 mg/m ³ 15 minuutteina Iho |

| Component | Austria | Denmark | Switzerland | Poland | Norway |
|--------------|--|--|--|---|--|
| Sodium azide | Haut MAK-KZGW: 0.3 mg/m ³ 15 Minuten MAK-TMW: 0.1 mg/m ³ 8 Stunden | TWA: 0.1 mg/m ³ 8 timer STEL: 0.3 mg/m ³ 15 minutter Hud | STEL: 0.4 mg/m ³ 15 Minuten TWA: 0.2 mg/m ³ 8 Stunden | STEL: 0.3 mg/m ³ 15 minutach TWA: 0.1 mg/m ³ 8 godzinach | TWA: 0.1 mg/m ³ 8 timer STEL: 0.3 mg/m ³ 15 minutter. value from the regulation |

| Component | Bulgaria | Croatia | Ireland | Cyprus | Czech Republic |
|--------------|---|---|--|--|--|
| Sodium azide | TWA: 0.1 mg/m ³ STEL : 0.3 mg/m ³ Skin notation | kože TWA-GVI: 0.1 mg/m ³ 8 satima. STEL-KGVI: 0.3 mg/m ³ 15 minutama. | TWA: 0.1 mg/m ³ 8 hr. STEL: 0.3 mg/m ³ 15 min Skin | Skin-potential for cutaneous absorption STEL: 0.3 mg/m ³ TWA: 0.1 mg/m ³ | TWA: 0.1 mg/m ³ 8 hodinách. Potential for cutaneous absorption Ceiling: 0.3 mg/m ³ |

| Component | Estonia | Gibraltar | Greece | Hungary | Iceland |
|--------------|---|--|--|---|---|
| Sodium azide | Nahk TWA: 0.1 mg/m ³ 8 tundides. STEL: 0.3 mg/m ³ 15 minutites. | Skin notation TWA: 0.1 mg/m ³ 8 hr STEL: 0.3 mg/m ³ 15 min | STEL: 0.1 ppm STEL: 0.3 mg/m ³ TWA: 0.1 ppm TWA: 0.3 mg/m ³ | STEL: 0.3 mg/m ³ 15 percekben. CK TWA: 0.1 mg/m ³ 8 órában. AK | STEL: 0.3 mg/m ³ TWA: 0.1 mg/m ³ 8 klukkustundum. Skin notation |

| Component | Latvia | Lithuania | Luxembourg | Malta | Romania |
|--------------|--|--|--|---|--|
| Sodium azide | skin - potential for cutaneous exposure STEL: 0.3 mg/m ³ TWA: 0.1 mg/m ³ | TWA: 0.1 mg/m ³ IPRD Oda STEL: 0.3 mg/m ³ | Possibility of significant uptake through the skin TWA: 0.1 mg/m ³ 8 Stunden STEL: 0.3 mg/m ³ 15 Minuten | possibility of significant uptake through the skin TWA: 0.1 mg/m ³ STEL: 0.3 mg/m ³ 15 minuti | Skin notation TWA: 0.1 mg/m ³ 8 ore STEL: 0.3 mg/m ³ 15 minute |

| Component | Russia | Slovak Republic | Slovenia | Sweden | Turkey |
|--------------|--------|--|---|--|--|
| Sodium azide | | Ceiling: 0.3 mg/m ³ Potential for cutaneous absorption TWA: 0.1 mg/m ³ | TWA: 0.1 mg/m ³ 8 urah Koža STEL: 0.3 mg/m ³ 15 minutah | Binding STEL: 0.3 mg/m ³ 15 minuter TLV: 0.1 mg/m ³ 8 timmar. NGV | Deri TWA: 0.1 mg/m ³ 8 saat STEL: 0.3 mg/m ³ 15 dakika |

Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

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Monitoring methods

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

Derived Minimum Effect Level (DMEL) / Derived No Effect Level (DNEL)

See table for values

| Component | Acute effects local (Dermal) | Acute effects systemic (Dermal) | Chronic effects local (Dermal) | Chronic effects systemic (Dermal) |
|--------------------------------------|------------------------------|---------------------------------|--------------------------------|-----------------------------------|
| Sodium azide 26628-22-8 (<0.05) | | | | DNEL = 46.7µg/kg bw/day |

| Component | Acute effects local (Inhalation) | Acute effects systemic (Inhalation) | Chronic effects local (Inhalation) | Chronic effects systemic (Inhalation) |
|--------------------------------------|----------------------------------|-------------------------------------|------------------------------------|---------------------------------------|
| Sodium azide 26628-22-8 (<0.05) | | | | DNEL = 0.164mg/m ³ |

Predicted No Effect Concentration (PNEC)

See values below.

| Component | Fresh water | Fresh water sediment | Water Intermittent | Microorganisms in sewage treatment | Soil (Agriculture) |
|--------------------------------------|-----------------|---------------------------------|--------------------|------------------------------------|--------------------|
| Sodium azide 26628-22-8 (<0.05) | PNEC = 0.35µg/L | PNEC = 16.7µg/kg sediment dw | PNEC = 3.5µg/L | PNEC = 30µg/L | |

| Component | Marine water | Marine water sediment | Marine water Intermittent | Food chain | Air |
|--------------------------------------|---------------|---------------------------------|---------------------------|------------|-----|
| Sodium azide 26628-22-8 (<0.05) | PNEC = 15ng/L | PNEC = 0.72µg/kg sediment dw | PNEC = 150ng/L | | |

8.2. Exposure controls

Engineering Measures

None under normal use conditions.

Personal protective equipment

Eye Protection

No special protective equipment required.

Hand Protection

Protective gloves.

| Glove material | Breakthrough time | Glove thickness | EU standard | Glove comments |
|----------------|-----------------------------------|-----------------|-------------|-----------------------|
| Nitrile rubber | See manufacturers recommendations | - | EN 374 | (minimum requirement) |

Skin and body protection

No special protective equipment required.

Respiratory Protection

No protective equipment is needed under normal use conditions.

Large scale/emergency use

No protective equipment is needed under normal use conditions

Small scale/Laboratory use

No personal respiratory protective equipment normally required.

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Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls Dispose of contents/containers in accordance with local regulations.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | | |
|--|--------------------------|--|
| Physical State | Liquid | |
| Appearance | Colorless to yellow | |
| Odor | None | |
| Odor Threshold | None | |
| Melting Point/Range | No data available | |
| Softening Point | No data available | |
| Boiling Point/Range | 100 °C | |
| Flammability (liquid) | No data available | |
| Flammability (solid,gas) | Not flammable | |
| Explosion Limits | Not applicable | |
| Flash Point | Not applicable | Method - No information available |
| Autoignition Temperature | Not applicable | |
| Decomposition Temperature | Not applicable | |
| pH | 7.0 | |
| Viscosity | No data available | |
| Water Solubility | Soluble in water | |
| Solubility in other solvents | No information available | |
| Partition Coefficient (n-octanol/water) | | |
| Component | log Pow | |
| Sodium azide | 0.3 | |
| Vapor Pressure | No data available | |
| Density / Specific Gravity | 1 g/cm ³ | |
| Bulk Density | No data available | |
| Vapor Density | No data available | (Air = 1.0) |
| Particle characteristics | Not applicable (liquid) | |

9.2. Other information

| | |
|-----------------------------|----------------|
| Explosive Properties | Not applicable |
| Oxidizing Properties | Not applicable |

Section 10: Stability and reactivity

| | |
|-------------------------|-------------|
| 10.1. Reactivity | None known. |
|-------------------------|-------------|

| | |
|---------------------------------|---------------------------------|
| 10.2. Chemical stability | Stable under normal conditions. |
|---------------------------------|---------------------------------|

10.3. Possibility of hazardous reactions

| | |
|---------------------------------|--|
| Hazardous Polymerization | Hazardous polymerization does not occur. |
| Hazardous Reactions | None under normal processing. |

| | |
|----------------------------------|-------------|
| 10.4. Conditions to avoid | None known. |
|----------------------------------|-------------|

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10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

None known.

Section 11: Toxicological information

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

Product Information Product does not present an acute toxicity hazard based on known or supplied information.

(a) acute toxicity;

Oral

No data available.

Dermal

No data available.

Inhalation

No data available.

Toxicology data for the components

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|--------------|-------------------------|---------------------|-----------------|
| Sodium azide | LD50 = 27 mg/kg (Rat) | 20 mg/kg (Rabbit) | 37 mg/l (Rat) |

(b) skin corrosion/irritation; No data available.

(c) serious eye damage/irritation;

(d) respiratory or skin sensitization;

Respiratory

No data available.

Skin

No data available.

(e) germ cell mutagenicity; No data available.

(f) carcinogenicity; There are no known carcinogenic chemicals in this product.

| Component | Test method | Test species / Duration | Study result |
|--------------|-------------|-------------------------|--|
| Sodium azide | | | No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. |

(g) reproductive toxicity; No data available.

(h) STOT-single exposure; No data available.

(i) STOT-repeated exposure; No data available.

(j) aspiration hazard; No data available.

| Component | Other Adverse Effects |
|--------------|--|
| Sodium azide | Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing. Harmful to central nervous system and heart. Fatal if swallowed. |

Symptoms / effects, both acute and delayed No information available.

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11.2. Information on other hazards

Endocrine Disrupting Properties This product does not contain any known or suspected endocrine disruptors.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity effects No information available.

| Component | Freshwater Fish | Water Flea | Freshwater Algae | Microtox |
|--------------|--|---|----------------------------------|---|
| Sodium azide | LC50 96 h 0.7 mg/L LC50 96 h LC50 0.7 mg/l 96 H (Lepomis macrochirus) | EC50 4.2 mg/l 48 h (Daphnia pulex) | IC50 272 mg/l (green algae) | EC50 38.5 mg/l (Photobacterium phosphoreum) |

12.2. Persistence and degradability No information available.

12.3. Bioaccumulative potential No information available.

| Component | log Pow | Bioconcentration factor (BCF) |
|--------------|---------|-------------------------------|
| Sodium azide | 0.3 | |

12.4. Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB). This product contains human sourced material. The donors have been tested and found to be non-reactive for HBsAg, HIV-1 Ag, anti-HCV and anti HIV-1/HIV-2.

12.6. Endocrine disrupting properties

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors

12.7. Other adverse effects

Persistent Organic Pollutant No known effect.
Ozone Depletion Potential No known effect.

Section 13: Disposal considerations

13.1. Waste treatment methods

Waste from Residues/Unused Products Dispose of in accordance with local regulations.

Contaminated Packaging Dispose of in accordance with local regulations.

European Waste Catalogue (EWC) 18 01 07 Chemicals other than those mentioned in 18 01 06.
Other Information No information available.

Section 14: Transport information

IMDG/IMO Not regulated

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14.1. UN number
14.2. UN proper shipping name
14.3. Transport hazard class(es)
14.4. Packing group

ADR Not regulated

14.1. UN number
14.2. UN proper shipping name
14.3. Transport hazard class(es)
14.4. Packing group

IATA Not regulated

14.1. UN number
14.2. UN proper shipping name
14.3. Transport hazard class(es)
14.4. Packing group

14.5. Environmental hazards No hazards identified.
14.6. Special precautions for user No special precautions required.
14.7. Maritime transport in bulk according to IMO instruments Not applicable, packaged goods.

Section 15: Regulatory information

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

International Inventories X = listed

| Component | EINECS | ELINCS | NLP | TSCA | DSL | NDSL | PICCS | ENCS | IECSC | AICS | KECL |
|--------------|-----------|--------|-----|------|-----|------|-------|------|-------|------|--------------|
| Sodium azide | 247-852-1 | - | | X | X | - | X | X | X | X | KE-3135 7 |

| Component | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements |
|--------------|---|--|
| Sodium azide | H2 50-200 ton, E1 100-200 ton | H2 50-200 ton, E1 100-200 ton |

Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals
Not applicable

National Regulations

| Component | Germany - Water Classification (AwSV) | Germany - TA-Luft Class |
|--------------|---------------------------------------|-------------------------|
| Sodium azide | WGK2 | |

UK - Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment.
Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values .

15.2. Chemical safety assessment

A Chemical Safety Assessment/Report (CSA/CSR) is not required.

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Section 16: Other information

Full text of H-Statements referred to under sections 2 and 3

H300 - Fatal 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

Legend

CAS - Chemical Abstracts Service

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

IECSC - Chinese Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

ENCS - Japanese Existing and New Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

WEL - Workplace Exposure Limit

ACGIH - American Conference of Governmental Industrial Hygienists

DNEL - Derived No Effect Level

RPE - Respiratory Protective Equipment

LC50 - Lethal Concentration 50%

NOEC - No Observed Effect Concentration

PBT - Persistent, Bioaccumulative, Toxic

TWA - Time Weighted Average

IARC - International Agency for Research on Cancer
Predicted No Effect Concentration (PNEC)

LD50 - Lethal Dose 50%

EC50 - Effective Concentration 50%

POW - Partition coefficient Octanol:Water

vPvB - very Persistent, very Bioaccumulative

ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road

IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code

OECD - Organisation for Economic Co-operation and Development

BCF - Bioconcentration factor

Key literature references and sources for data

<https://echa.europa.eu/information-on-chemicals>

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

ICAO/IATA - International Civil Aviation Organization/International Air Transport Association

MARPOL - International Convention for the Prevention of Pollution from Ships

ATE - Acute Toxicity Estimate

VOC (volatile organic compound)

Physical hazards

On basis of test data

Health Hazards

Calculation method

Environmental hazards

Calculation method

Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

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Revision Summary

SDS sections updated, 1, 3, 16.

**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006
COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No
1907/2006**

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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 process, unless specified in the text

End of Safety Data Sheet