

# 16.01.2020 Kit Components

Product code	Description
D05076	Non-radioactive Iodide Assay kit
Components:	
D22076	Non-radioactive iodide assay reagent A
D20076	Non-radioactive iodide assay reagent B
D06076	Non-radioactive iodide assay standard



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# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 16.01.2020 Revision: 08.04.2019

# 1 Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name: Nonradioactive iodide assay reagent A

Article number: D22076

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

No further relevant information available.

Application of the substance / the mixture Laboratory reagent

#### 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

**Bertin Technologies** 

10 bis avenue Ampère F-78180 Montigny-le-Bx FRANCE Tel: +33 1 39 30 60 36 - tech@bertin-bioreagent.com

Further information obtainable from: Technical Support of Bioreagent Department

1.4 Emergency telephone number: During operating hours 09 am to 05 pm (Paris Time GMT+1): +33 139 306 036

#### 2 Hazards identification

# 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008



GHS05 corrosion

Skin Corr. 1C H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

#### 2.2 Label elements

# Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

#### **Hazard pictograms**



GHS05

#### Signal word Danger

### Hazard-determining components of labelling:

Acide sulfurique 95-97%

#### **Hazard statements**

H314 Causes severe skin burns and eye damage.

# **Precautionary statements**

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

#### 2.3 Other hazards

#### Results of PBT and vPvB assessment

PBT: Not applicable.

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Trade name: Nonradioactive iodide assay reagent A

vPvB: Not applicable.

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# 3 Composition/information on ingredients

#### 3.2 Chemical characterisation: Mixtures

**Description:** Mixture of substances listed below with nonhazardous additions.

#### **Dangerous components:**

EINECS: 231-639-5 Acide sulfurique 95-97%

10-25%

Met. Corr.1, H290; Skin Corr. 1C, H314; Eye Dam. 1, H318

Additional information: For the wording of the listed hazard phrases refer to section 16.

#### 4 First aid measures

#### 4.1 Description of first aid measures

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Generally the product does not irritate the skin.

After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing: If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## 5 Firefighting measures

# 5.1 Extinguishing media

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

**5.2 Special hazards arising from the substance or mixture** No further relevant information available.

5.3 Advice for firefighters

Protective equipment: No special measures required.

# 6 Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

**6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

#### 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralising agent.

Dispose contaminated material as waste according to item 13.

#### 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

# 7 Handling and storage

7.1 Precautions for safe handling No special precautions are necessary if used correctly.

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**Information about fire - and explosion protection:** No special measures required.

# 7.2 Conditions for safe storage, including any incompatibilities

#### Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep container tightly sealed.

Recommended storage temperature: +4 °C

7.3 Specific end use(s) No further relevant information available.

# 8 Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

#### 8.1 Control parameters

## Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists valid during the making were used as basis.

## 8.2 Exposure controls

#### Personal protective equipment:

#### General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

Respiratory protection: Not required.

**Protection of hands:** 



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### **Eye protection:**



Tightly sealed goggles

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Trade name: Nonradioactive iodide assay reagent A

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# 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

**General Information** 

**Appearance:** 

Form: Solid Colour: Yellow

Odour: Uncharacteristic.
Odour threshold: Not determined.

pH-value: Not determined.

Change in condition

**Melting point/freezing point:** Undetermined. **Initial boiling point and boiling range:** 1.413 °C

Flash point:

Flammability (solid, gas):

Decomposition temperature:

Not applicable.

Not determined.

**Auto-ignition temperature:** Product is not selfigniting.

**Explosive properties:** Product does not present an explosion hazard.

**Explosion limits:** 

**Lower:** Not determined. **Upper:** Not determined.

Vapour pressure at 20 °C: 23 hPa

Density:Not determined.Relative densityNot determined.Vapour densityNot determined.Evaporation rateNot determined.

Solubility in / Miscibility with

water: Not miscible or difficult to mix.

Partition coefficient: n-octanol/water: Not determined.

**Viscosity:** 

**Dynamic:** Not determined. **Kinematic:** Not determined.

Solvent content:

 Organic solvents:
 0,0 %

 Water:
 83,1 %

 Solids content:
 100,0 %

<u>9.2 Other information</u> No further relevant information available.

# 10 Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known.

**10.4 Conditions to avoid** No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

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Trade name: Nonradioactive iodide assay reagent A

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10.6 Hazardous decomposition products: No dangerous decomposition products known.

# 11 Toxicological information

#### 11.1 Information on toxicological effects

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

**Primary irritant effect:** 

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Causes serious eye damage.

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

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

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.

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

**Aspiration hazard** Based on available data, the classification criteria are not met.

# 12 Ecological information

#### 12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

Additional ecological information:

#### **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

#### 12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

**12.6 Other adverse effects** No further relevant information available.

# 13 Disposal considerations

#### 13.1 Waste treatment methods

#### Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

#### European waste catalogue

**HP 8 Corrosive** 

#### **Uncleaned packaging:**

Recommendation: Disposal must be made according to official regulations.

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# 14 Transport information

14.1 UN-Number

ADR, IMDG, IATA not regulated

14.2 UN proper shipping name

ADR, IMDG, IATA not regulated

14.3 Transport hazard class(es)

ADR, IMDG, IATA



**Class** not regulated

14.4 Packing group

ADR, IMDG, IATA not regulated

14.5 Environmental hazards: Not applicable.

14.6 Special precautions for user

Statement Contact of the second second

Stowage Category

14.7 Transport in bulk according to Annex II of Marpol

and the IBC Code Not applicable.

**Transport/Additional information:** 

IATA

Remarks: When sold in quantities of less than or equal to 1mL or 1g

with an Excepted Quantity Code of E1, E2, E3, E4 or E5, this item meets the De Minimis Quantites exemption, per

IATA 2.6.10.

Therefore packaging does not have to be labeled as

Dangerous Goods/Excepted Quantity

UN "Model Regulation": not regulated

### 15 Regulatory information

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed. REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

# 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

License is granted to make unlimited paper copies of this document for internal use only.

This Material Safety Data Sheet contains data necessary to ensure safety, health and environmental protection in working with chemical substances. The above-stated data match the contemporary state of knowledge and experience and are in coincidence with legal regulations currently in effect. This product is a laboratory reagent and can be solely used by persons with dédicated education at their own risk.

This product is designed for Research and Development use only. Not for drug for human nor veterinary or other uses. The manufacturer has no responsibility for damage caused by unsuitable use or by disrespecting the enclosed working instructions.

The above information is believed to be current and accurate; however, Bertin Technologies makes no warranty with

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Trade name: Nonradioactive iodide assay reagent A

respect to such information and assumes no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.

#### **Relevant phrases**

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

Contact: tech@bertin-bioreagent.com

#### Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of

Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Met. Corr.1: Corrosive to metals - Category 1 Skin Corr. 1C: Skin corrosion/irritation - Category 1C Eye Dam. 1: Serious eye damage/eye irritation – Category 1

\* Data compared to the previous version altered.



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# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 16.01.2020 Revision: 10.12.2019

# 1 Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name: Non-radioactive iodide assay reagent B

Article number: D20076

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

No further relevant information available.

Application of the substance / the mixture Laboratory reagent

#### 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Bertin Technologies

10 bis avenue Ampère F-78180 Montigny-le-Bx FRANCE Tel: +33 1 39 30 60 36 - tech@bertin-bioreagent.com

Further information obtainable from: Technical Support of Bioreagent Department

1.4 Emergency telephone number: During operating hours 09 am to 05 pm (Paris Time GMT+1): +33 139 306 036

#### 2 Hazards identification

# 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008



GHS08 health hazard

Carc. 1A H350 May cause cancer.



Acute Tox. 4 H302 Harmful if swallowed. Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements

#### Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

#### **Hazard pictograms**





GHS07 GHS08

#### Signal word Danger

#### Hazard-determining components of labelling:

diarsenic trioxide

#### **Hazard statements**

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H350 May cause cancer.

H412 Harmful to aquatic life with long lasting effects.

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Trade name: Non-radioactive iodide assay reagent B

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**Precautionary statements** 

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P330 Rinse mouth.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Additional information:** 

Restricted to professional users.

2.3 Other hazards

Results of PBT and vPvB assessment

**PBT:** Not applicable. **vPvB:** Not applicable.

# 3 Composition/information on ingredients

#### 3.2 Chemical characterisation: Mixtures

**Description:** Mixture of substances listed below with nonhazardous additions.

#### **Dangerous components:**

CAS: 1327-53-3 diarsenic trioxide

≥0,25-<1%

EINECS: 215-481-4 🏟 Acute Tox. 2, H300; 🗞 Carc. 1A, H350; 🕎 Skin Corr. 1B, H314; 🚯 Aquatic Acute 1,

H400; Aquatic Chronic 1, H410

CAS: 1310-73-2 sodium hydroxide

≥0,5-<2%

EINECS: 215-185-5 🔷 Skin Corr. 1A, H314; 🔱 Acute Tox. 4, H302

**SVHC** 

CAS: 1327-53-3 diarsenic trioxide

Additional information: For the wording of the listed hazard phrases refer to section 16.

## 4 First aid measures

#### 4.1 Description of first aid measures

#### **General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident

After inhalation: In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: Call for a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

# 5 Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixture No further relevant information available.

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Printing date 16.01.2020 Revision: 10.12.2019

Trade name: Non-radioactive iodide assay reagent B

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#### 5.3 Advice for firefighters

Protective equipment: No special measures required.

#### 6 Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures Not required.

#### 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

#### 6.3 Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

#### 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

# 7 Handling and storage

## 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Information about fire - and explosion protection: Keep respiratory protective device available.

# 7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep container tightly sealed.

Recommended storage temperature: +4 °C

7.3 Specific end use(s) No further relevant information available.

### 8 Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

#### 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

CAS: 1327-53-3 diarsenic trioxide VLEP Long-term value: 0,2 mg/m³

C1A

# CAS: 1310-73-2 sodium hydroxide

VLEP Long-term value: 2 mg/m<sup>3</sup>

Additional information: The lists valid during the making were used as basis.

#### 8.2 Exposure controls

## Personal protective equipment:

#### General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

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Trade name: Non-radioactive iodide assay reagent B

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Store protective clothing separately.

Avoid contact with the eyes and skin.

### Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

#### **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

## Eye protection:



Tightly sealed goggles

# 9 Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

**General Information** 

Appearance:

Form: Solid

**Colour:** According to product specification

Odour: Characteristic
Odour threshold: Not determined.

pH-value: Not applicable.

Change in condition

**Melting point/freezing point:** Undetermined. **Initial boiling point and boiling range:** 1.413 °C

Flash point:

Flammability (solid, gas):

Decomposition temperature:

Not applicable.

Not determined.

**Auto-ignition temperature:** Product is not selfigniting.

**Explosive properties:** Product does not present an explosion hazard.

**Explosion limits:** 

Lower: Not determined. Upper: Not determined.

Vapour pressure at 20 °C: 23 hPa

**Density:** Not determined.

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Trade name: Non-radioactive iodide assay reagent B

Relative density Not determined.

Vapour densityNot applicable.Evaporation rateNot applicable.

Solubility in / Miscibility with

water: Insoluble.

Partition coefficient: n-octanol/water: Not determined.

**Viscosity:** 

**Dynamic:** Not applicable. **Kinematic:** Not applicable.

**Solvent content:** 

**Water:** 93,9 % **Solids content:** 100.0 %

**9.2 Other information** No further relevant information available.

# 10 Stability and reactivity

**10.1 Reactivity** No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

#### 11 Toxicological information

#### 11.1 Information on toxicological effects

**Acute toxicity** 

Harmful if swallowed.

LD/LC50 values relevant for classification:

CAS: 1327-53-3 diarsenic trioxide

Oral LD50 15,1 mg/kg (rat)

CAS: 1310-73-2 sodium hydroxide

Oral LD50 2.000 mg/kg (rat)

Primary irritant effect:
Skin corrosion/irritation

Causes skin irritation.

**Serious eye damage/irritation**Causes serious eye irritation.

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

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

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

Carcinogenicity

May cause cancer.

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

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

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Trade name: Non-radioactive iodide assay reagent B

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

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## 12 Ecological information

#### 12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

**Ecotoxical effects:** Remark: Harmful to fish

Additional ecological information:

**General notes:** 

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Harmful to aquatic organisms

12.5 Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

# 13 Disposal considerations

#### 13.1 Waste treatment methods

#### Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

#### European waste catalogue

**HP6** Acute Toxicity

HP7 Carcinogenic

**HP14 Ecotoxic** 

# **Uncleaned packaging:**

**Recommendation:** Disposal must be made according to official regulations.

#### 14 Transport information

14.1 UN-Number

ADR, IMDG, IATA

14.2 UN proper shipping name

**ADR** 

IMDG, IATA

14.3 Transport hazard class(es)

ADR, IMDG, IATA



**Class** 8 Corrosive substances.

Label

UN1759 CORROSIVE SOLID, N.O.S. (SODIUM

CORROSIVE SOLID, N.O.S. (SODIUM HYDROXIDE)

UN1759

8

HYDROXIDE)

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# Safety data sheet according to 1907/2006/EC, Article 31

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Trade name: Non-radioactive iodide assay reagent B

14.4 Packing group
ADR, IMDG, IATA

**14.5 Environmental hazards:** Not applicable.

**14.6 Special precautions for user** Warning: Corrosive substances.

Danger code (Kemler):80EMS Number:F-A,S-BSegregation groupsAlkalisStowage CategoryA

14.7 Transport in bulk according to Annex II of Marpol

and the IBC Code Not applicable.

**Transport/Additional information:** 

ADR
Limited quantities (LQ) 5 kg

Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g

Transport category 3
Tunnel restriction code E

**IMDG** 

Limited quantities (LQ) 5 kg

Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 1000 g

IATA Code: E1

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 1000 g

Excepted quantities (EQ) Code: E

Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g

Remarks: When sold in quantities of less than or equal to 1mL or 1q

with an Excepted Quantity Code of E1, E2, E3, E4 or E5, this item meets the De Minimis Quantites exemption, per

IATA 2.6.10.

Therefore packaging does not have to be labeled as

Dangerous Goods/Excepted Quantity

UN "Model Regulation": UN 1759 CORROSIVE SOLID, N.O.S. (SODIUM

HYDROXIDE), 8, III

#### 15 Regulatory information

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed. LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)

CAS: 1327-53-3 diarsenic trioxide: Sunset date: 2015-05-21

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 19, 28, 72

Regulation (EU) No 649/2012

CAS: 1327-53-3 diarsenic trioxideAnnex I Part 1

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Trade name: Non-radioactive iodide assay reagent B

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### **National regulations:**

#### Additional classification according to Decree on Hazardous Materials, Annex II:

Carcinogenic hazardous material group III (dangerous).

#### Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

# Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57

CAS: 1327-53-3 diarsenic trioxide

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

# 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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This product is designed for Research and Development use only. Not for drug for human nor veterinary or other uses. The manufacturer has no responsibility for damage caused by unsuitable use or by disrespecting the enclosed working instructions.

The above information is believed to be current and accurate; however, Bertin Technologies makes no warranty with respect to such information and assumes no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.

#### Relevant phrases

H300 Fatal if swallowed.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H350 May cause cancer.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Contact: tech@bertin-bioreagent.com

#### Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 2: Acute toxicity - oral – Category 2 Acute Tox. 4: Acute toxicity - oral – Category 4

Skin Corr. 1A: Skin corrosion/irritation - Category 1A

Skin Corr. 1B: Skin corrosion/irritation - Category 1B

Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

Carc. 1A: Carcinogenicity – Category 1A

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Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

\* Data compared to the previous version altered.



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# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 16.01.2020 Revision: 08.04.2019

# 1 Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name: Non-radioactive iodide assay standard

Article number: D06076

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

No further relevant information available.

Application of the substance / the mixture Laboratory reagent

#### 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Bertin Technologies

10 bis avenue Ampère F-78180 Montigny-le-Bx FRANCE Tel: +33 1 39 30 60 36 - tech@bertin-bioreagent.com

Further information obtainable from: Technical Support of Bioreagent Department

1.4 Emergency telephone number: During operating hours 09 am to 05 pm (Paris Time GMT+1): +33 139 306 036

#### 2 Hazards identification

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The product is not classified, according to the CLP regulation.

## 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 Void

Hazard pictograms Void

Signal word Void

Hazard statements Void

2.3 Other hazards

Results of PBT and vPvB assessment

**PBT:** Not applicable. **vPvB:** Not applicable.

## 3 Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

**Description:** Mixture of substances listed below with nonhazardous additions.

Dangerous components: Void

Additional information: For the wording of the listed hazard phrases refer to section 16.

### 4 First aid measures

#### 4.1 Description of first aid measures

**General information:** No special measures required.

**After inhalation:** Supply fresh air; consult doctor in case of complaints. **After skin contact:** Generally the product does not irritate the skin.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

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

No further relevant information available.

# 5 Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

**5.2 Special hazards arising from the substance or mixture** No further relevant information available.

5.3 Advice for firefighters

Protective equipment: No special measures required.

#### 6 Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

#### 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

**7.1 Precautions for safe handling** No special measures required.

Information about fire - and explosion protection: No special measures required.

# 7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: None.

Recommended storage temperature: +4 °C

7.3 Specific end use(s) No further relevant information available.

# 8 Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

#### 8.1 Control parameters

## Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists valid during the making were used as basis.

# 8.2 Exposure controls

Personal protective equipment:

#### General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection: Not required.

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#### Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** Goggles recommended during refilling

# 9 Physical and chemical properties

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

**General Information** 

Appearance:

Form: Solid

**Colour:** According to product specification

Odour: Characteristic
Odour threshold: Not determined.

pH-value: Not determined.

Change in condition

Melting point/freezing point: Undetermined. Initial boiling point and boiling range: 1.413 °C

Flash point:

Flammability (solid, gas):

Decomposition temperature:

Not applicable.

Not determined.

**Auto-ignition temperature:** Product is not selfigniting.

**Explosive properties:** Product does not present an explosion hazard.

**Explosion limits:** 

**Lower:** Not determined. **Upper:** Not determined.

Vapour pressure at 20 °C: 23 hPa

Density:Not determined.Relative densityNot determined.Vapour densityNot determined.Evaporation rateNot determined.

Solubility in / Miscibility with

water: Not miscible or difficult to mix.

Partition coefficient: n-octanol/water: Not determined.

Viscosity:

**Dynamic:** Not determined. **Kinematic:** Not determined.

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**Solvent content:** 

**Water:** 100,0 % **Solids content:** 100,0 %

**9.2 Other information**No further relevant information available.

# 10 Stability and reactivity

**10.1 Reactivity** No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

# 11 Toxicological information

# 11.1 Information on toxicological effects

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

**Primary irritant effect:** 

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

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

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

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

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.

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

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

# 12 Ecological information

#### 12.1 Toxicity

Aquatic toxicity: No further relevant information available.

- **12.2 Persistence and degradability** No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.

Additional ecological information:

#### **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

#### 12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

**12.6 Other adverse effects** No further relevant information available.

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# 13 Disposal considerations

#### 13.1 Waste treatment methods

Recommendation Smaller quantities can be disposed of with household waste.

**Uncleaned packaging:** 

Recommendation: Disposal must be made according to official regulations.

# 14 Transport information

14.1 UN-Number

ADR, ADN, IMDG, IATA not regulated

14.2 UN proper shipping name

ADR, ADN, IMDG, IATA not regulated

14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA

**Class** not regulated

14.4 Packing group

ADR, IMDG, IATA not regulated

14.5 Environmental hazards:

14.6 Special precautions for user

Not applicable.

Not applicable.

14.7 Transport in bulk according to Annex II of Marpol

and the IBC CodeNot applicable.UN "Model Regulation":not regulated

### 15 Regulatory information

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## 16 Other information

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