

(According to regulation (EC) 1907/2006 and amendments)

Product Name: E2 – RIA - CT

Catalog #: KIP0629

KIT

1 INFORMATION OF THE SUBSTANCE/PREPARATION AND COMPANY

1.1 **Product identifier**

Product Name: E2 - RIA - CT

Catalog #: KIP0629

Kit Components: Coated tubes

Tracer Buffer
Diluent Specimen
Calibrators (0 to 6)
Controls (1 and 2)
Washing Solution

1.2 Intended Use

For In Vitro Diagnostic Use. See product literature for details.

1.3 Company

DIAsource ImmunoAssays S.A.

Rue du Bosquet, 2

B-1348 Louvain-la-Neuve

Belgium

Tel. Nr. +32 (0)10/84.99.11

E-mail: products.support@diasource.be

1.4 Emergency telephone

DIAsource (only office hours): +32 (0)10/84.99.11 Centre Anti-Poisons (BE) 070 245 245 Please refer to your local Anti-Poison Center!

2 TRANSPORT INFORMATION

According to ADR and IATA (Chapter 10.3.1) regulations, shipment below the exemption quantity (1 MBq for Iodine 125) are considered as not dangerous goods. If the shipment exceed this quantity, please refer to the information given below:

| Shipping Information | IATA | IMDG | US DOT | European ADR | Canadian TDG |
|---------------------------|-------------------|------------------------|-------------------------|----------------|----------------|
| UN/ID Number | 2910 | 2910 | 2910 | 2910 | 2910 |
| Shipping Name | Radioactive Mater | rial, excepted package | e-limited quantity of 1 | material | |
| Hazard Class | 7 Radioactive | 7 Radioactive | 7 Radioactive | 7 Radioactive | 7 Radioactive |
| | Material | Material | Material | Material | Materials |
| Subsidiary Risk | None | None | None | None | None |
| Classification Code | Not applicable | Not applicable | Not applicable | None | Not applicable |
| Packing Group | | | | | |
| Special Provisions | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| Additional Information | | | | | |
| IATA ERG Code | 7L | Not applicable | Not applicable | Not applicable | Not applicable |
| EmS | Not applicable | F-I, S-S | Not applicable | Not applicable | Not applicable |
| NAERG Code | Not applicable | Not applicable | 161 | Not applicable | 161 |
| | | | | | |

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Product Name: E2 – RIA - CT

Catalog #: KIP0629

Environmental Hazard

Marine Polluant Not applicable No Not applicable Not applicable Not applicable

Special Precautions for users: No special precautions for users are required.

3 OTHER INFORMATION

3.1 General Precautions:

- The products are for professional laboratory use only.
- Users should have a thorough understanding of the Instructions for Use prior to their use of this kit.
- Good Laboratory Practices (GLP) should be followed to ensure the safe use and disposal of the reagents.
- Never pipet by mouth and avoid contact of reagents and specimens with skin and mucous membranes.
- Do not smoke, eat, drink or apply cosmetics in areas where specimens or kit reagents are handled.
- Wear disposable latex gloves when handling reagents

3.2 Other hazard

Tracer Buffer Contains material from bovine origin

This kit contains material of human origin. Although these materials have been tested for HBsAg, anti-HCV and anti-HIV-1/2 and have been found not reactive, they should be considered as potentially infectious.

Diluent SpecimenContains material from human originCalibratorsContains material from human originControlsContains material from human origin

3.3 Labeling of tube:

Printing date

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Each tube can only be used once





(According to regulation (EC) 1907/2006 and amendments)

Product Name: E2 – RIA - CT

Catalog #: KIP0629

TRACER

INFORMATION OF THE SUBSTANCE/PREPARATION AND COMPANY

1.1 **Product identifier**

Product Name: Tracer

Catalog #: Component of KIP0629

Intended Use

For In Vitro Diagnostic Use. See product literature for details.

1.3 **Company**

DIAsource ImmunoAssays S.A.

Rue du Bosquet, 2

B-1348 Louvain-la-Neuve

Belgium

Tel. Nr. +32 (0)10/84.99.11

E-mail: products.support@diasource.be

1.4 **Emergency telephone**

DIAsource (only office hours): +32 (0)10/84.99.11 Centre Anti-Poisons (BE) 070 245 245 Please refer to your local Anti-Poison Center!

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Product Description Colorless; Clear; Liquid; Pungent

Classification according to EC 1272/2008 Flammable liquids Category 2

Eye irritation Category 2 (CLP/GHS)

Not classified as hazardous per US-OSHA HCS Classification according to US-OSHA (HCS 29 CFR 1910.1200) and UN GHS 2012 and UN GHS

Label elements according to the regulation (EC) n°1272/2008 (CLP) and its amendments

Danger symbol



Signal word Danger **Product Identifier** Ethanol (1:1)

Danger H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

Supplemental Hazard

Information

P210 Keep away from heat, hot surfaces, sparks, open flames and **Prevention statements**

other ignition sources. No smoking.

P233 Keep container tightly closed.

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(According to regulation (EC) 1907/2006 and amendments)

Product Name: E2 – RIA - CT

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P240 Ground and bond container and receiving equipment. P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242 Use non-sparking tools.



Response statements P305 + P351 + P338 IF IN EYES: Rinse cautiously with water

for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

Storage statements - Disposal statements -

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

Iodine-125 is a gamma-rays and X-rays emitter. Radiation can be protected by 1mm of lead. Half-life: 59.4 days.

See Section 11 Toxicological Information for more detailed health information.

3 COMPOSITION/INFORMATION ON INGREDIENTS

| Hazardous Ingredients: | | Hazard Classification of Pure Ingredients | | |
|--|----------|---|------------------------------|--|
| Chemical Name | % by wt. | EU 1272/2008 CLP/GHS | GHS | |
| Ethanol | >95 | Flam. Liq. 2 Eye Irrit. 2 | Flam. Liq. 2 Eye Irrit. 2 | |
| CAS # 64-17-5 EINECS# 200-578-6 Index # 603-002-00-5 | | H225, H3190 | H225, H3190 | |

See section 8 for available Occupational exposure limits

See Section 15 for additional regulatory information

See Section 16 for hazard class, hazard statements and risk phrase description

4 FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation If product is inhaled, move exposed individual to fresh air. If individual is not

breathing, begin artificial respiration immediately and obtain medical attention.

Eye Contact If product enters eyes, rinse eyes gently with water as a precaution.

Skin Contact In case of skin contact, rinse with water as a precaution.

Ingestion If product is ingested, rinse mouth with water. If irritation or discomfort occurs, obtain

medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

May produce an allergic reaction in some people.

See Section 11 Toxicological Information for more detailed health information.

4.3 <u>Indication of any immediate medical attention and special treatment needed</u>

No specific medical attention or treatment required.

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5 FIRE FIGHTING MEASURES

5.1 Extinguishing media

In case of fire use carbon dioxide (CO2), dry chemical, water spray or foam.

For large fires use extinguishing media suitable for surrounding fire.

5.2 Special hazards arising from the substance or mixture

Carbon oxides.

Combustible.

Pay attention to flashback.

Vapors are heavier than air and may spread along floors.

Development of hazardous combustion gases or vapours possible in the event of fire.

Forms explosive mixtures with air at ambient temperatures.

5.3 Advice for fire fighters

In the event of fire, wear self-contained breathing apparatus.

5.4 Additional information

Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precaution, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

6.2 Environmental Precautions

Do not let product enter drains. Risk of explosion.

6.3 Methods and material for containment and cleaning-up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material.

Dispose of properly. Clean up affected area.

6.4 Reference to other sections

Refer sections 13.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

Hygiene measures

Change contaminated clothing. Wash hands after working with substance.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store at 2 to 8°C, as directed on the product label.

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To maintain product quality, store according to the instructions in the product labeling.

7.3 Specific end uses

No further relevant information available.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure Limits

| US OSHA | None established |
|---------------|------------------|
| ACGIH | None established |
| DFG MAK | None established |
| Ireland | None established |
| IOELVs | None established |
| NIOSH | None established |
| Japan | None established |

8.2 Exposure controls

Engineering Controls Eye Protection

Place vial behind a metal shield, away from the user.

Safety glasses or chemical goggles should be worn to prevent eye

contact.

Refer U.S. OSHA 29 CFR 1910.133, European Standard EN166 or

appropriate government standards.

Skin Protection Impervious gloves, such as Nitrile or equivalent, should be worn to

prevent skin contact.

Refer U.S. OSHA 29 CFR 1910.138, European Standard EN374 or

appropriate government standards.

Respiratory Protection Under normal conditions, the use of this product should not require

respiratory protection. If overexposure should occur and ventilation is not adequate to maintain airborne concentrations at acceptable levels, the use of respiratory protection should be evaluated by a qualified

professional.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 <u>Information on basic physical and chemical properties</u>

| Physical State | Liquid | Vapor Density | 1.6 |
|------------------------------|-----------------------|---|----------------------|
| Color | Colorless | Odor threshold | Not applicable |
| Transparency | Clear | Specific Gravity (water = 1.0) | 1.00 @20°C |
| Odor | Pungent | Solubility: | |
| pН | 7.0 | Water | Miscible |
| Freezing Point | -144.0°C @1013 hPa | Organic | Not applicable |
| Boiling Point | 78.3°C @1013hPa | Coefficien of Water/Oil Distribution | Not determined |
| Flash Point | 13°C | Autoignition Temp. | 455.0°C @1013 hPa |
| Evaporate Rate | Not determined | Decomposition Temperature | Not determined |
| Flammability (Solid, Gas) | Not applicable | Percent Volatiles | Not determines |
| Flammable Limits: | | Vapor Pressure | 0.57hPa @19.6°C |
| Upper explosion limit | 13.5%(V) | Viscosity | Not determined |
| | 2.5%(V) | Explosive Properties | Not applicable |

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9.2 Other information

No further relevant information available.

10 STABILITY AND REACTIVITY

10.1 Reactivity

Vapors may form explosive mixture with air.

10.2 Chemical Stability

The product is stable in accordance with recommended storage conditions.

10.3 Possibility of hazardous reactions

No further relevant information available.

10.4 Conditions to Avoid

Warming.

10.5 <u>Incompatible materials</u>

Rubber, various plastics.

10.6 Hazardous Decomposition Products

In the event of fire: see section 5.

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Primary Routes of Exposure Common routes of entry include inhalation, ingestion and eye/skin

contact. Specific paths of concern for potentially infectious materials are skin puncture, contact with broken skin, contact with mucous

membranes and inhalation of aerosolized material.

Acute Toxicity LD50 Oral - Rat – 10,470 mg/kg

(OECD Test Guideline 4021)

LD50 Dermal - Rat - male and female - 4h - 124.7 mg/l

(OECD Test Guideline 403)

Skin Corrosion/Irritation Skin - Rabbit

Result: No skin irritation - 24 h (OECD Test Guideline 404)

Serious eye damage/eye irritation Eyes – Rabbit

Result: Causes serious eye irritation

(OECD Test Guideline 405)

Respiratory/skin sensitization Maximization Test - Guinea pig

Result: negative

(OECD Test Guideline 406)

Carcinogenicity Not classified based on available data.

Germ cell mutagenicity Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: In vitro mammalian cell gene mutation test

Test system: mouse lymphoma cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Test Type: dominant lethal test

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Product Name: E2 – RIA - CT

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Species: Mouse

Application Route: Oral

Method: OECD Test Guideline 478

Result: Positive results were obtained in some in vivo tests

Reproductive Toxicity

Specific target organ toxicity -

single exposure

Not classified based on available data. Not classified based on available data.

Specific target organ toxicity -

repeated exposure **Aspiration hazard** Not classified based on available data.

Not classified based on available data.

Other information

Repeated dose toxicity - Rat - male - Oral - NOAEL (No observed adverse effect level) - 1,730 mg/kg - LOAEL (Lowest observed

adverse effect level) - 3,200 mg/kg

irritant effects, respiratory paralysis, Dizziness, narcosis, inebriation,

euphoria, Nausea, Vomiting

To the best of our knowledge, the chemical, physical, and toxicological

properties have not been thoroughly investigated.

ECOLOGICAL INFORMATION 12

12.1 Ecotoxicity

Toxicity to fish Flow-through test LC50 - Pimephales promelas (fathead

minnow) - 15,300 mg/l - 96 h

static test LC50 - Ceriodaphnia dubia (water flea) - 5,012 mg/l Toxicity to daphnia

and other aquatic - 48 h

Remarks: (ECHA) invertebrates

Toxicity to algae Static test ErC50 - Chlorella vulgaris (Fresh water algae) - 275

mg/l - 72 h

(OECD Test Guideline 201)

Static test IC50 - activated sludge - > 1,000 mg/l - 3 h **Toxicity to bacteria**

(OECD Test Guideline 209)

12.2 Persistence and degradability

Aerobic - Exposure time 15 d **Biodegradability**

Result: ca.95 % - Readily biodegradable.

(OECD Test Guideline 301E)

Biochemical Oxygen 930 - 1,670 mg/g Remarks: (Lit.) Demand (BOD) 2,100 mg/g Theoretical oxygen demand

Remarks: (Lit.)

12.3 Bioaccumulation

Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

12.4 Mobility in soil

Not determined for the product.

12.5 Results of PBT and vPvB assessment

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

12.6 Other adverse effects

No interference with wastewater treatment plants are to be expected when used properly. Discharge into the environment must be avoided.

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13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product Waste Disposal:

Chemical residues and remains should be routinely handled as special waste. This must be disposed of in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or an approved waste-disposal company for information.

Dispose of as potentially biohazardous waste and in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or and approved waste-disposal company for information.

Package disposal:

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Dispose of waste product, unused product and contaminated packaging in compliance with federal, state and local regulations. If unsure of the applicable requirements, contact the authorities for information.

13.2 Additional Information

Suggested European waste catalogue 18 01 07 - chemicals other than those mentioned in 18 01 06. Dispose in accordance with national, state and local waste regulations.

14 TRANSPORT INFORMATION

According to ADR and IATA (Chapter 10.3.1) regulations, shipment below the exemption quantity (1 MBq for Iodine 125) are considered as not dangerous goods. If the shipment exceed this quantity, please refer to the information given below:

| Shipping Information | IATA | IMDG | US DOT | European ADR | Canadian TDG |
|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|----------------------------|
| UN/ID Number | 2910 | 2910 | 2910 | 2910 | PIN - 2910 |
| Shipping Name | Radioactive Mater | ial, excepted package | -limited quantity of n | naterial | |
| Hazard Class | 7 Radioactive Material | 7 Radioactive Material | 7 Radioactive Material | 7 Radioactive Material | 7 Radioactive Materials |
| Subsidiary Risk | None | None | None | None | None |
| Classification Code | Not applicable | Not applicable | Not applicable | None | Not applicable |
| Packing Group | | | | | |
| Special Provisions | Not applicable |
| Additional Information | | | | | |
| IATA ERG Code | 7L | Not applicable | Not applicable | Not applicable | Not applicable |
| EmS | Not applicable | F-I, S-S | Not applicable | Not applicable | Not applicable |
| NAERG Code | Not applicable | Not applicable | 161 | Not applicable | 161 |
| Environmental Hazard | | | | | |
| Marine Polluant | Not applicable | No | Not applicable | Not applicable | Not applicable |

Special Precautions for user: No special precautions for users are required.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

MATERIEL SAFETY DATA SHEET

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Product Name: E2 – RIA - CT

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REGULATORY INFORMATION

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

Us Federal and State Regulations

SARA 313 CERCLA (The Comprehensive

Environmental Response,

Compensation and Liability Act) 40

CFR 302.4

California Proposition 65

No ingredients listed No ingredients listed

WARNING: This product can expose you to chemical which is known to the State of California to cause cancer and/or harm. For more information, go to www.P65Warnings.ca.gov

Chemical which is known to the State

of California to cause cancer

Iodine 125 (CAS # 14158-31-7)

Chemical which is known to the State of California to cause development

toxicity

No ingredients listed

Chemical which is known to the State

of California to cause male reproductive toxicity

No ingredients listed

Chemical which is known to the State

of California to cause female

reproductive toxicity

Massachusetts MSL New Jersey Dept. of Health RTK List Pennsylvania RTK No ingredients listed

No ingredients listed

No ingredients listed No ingredients listed

EU regulations

This SDS complies with EC Regulations 1907/2006 (REACH) and amendments.

Water Hazard Class (Germany) REACH 1907/2006 EC - Annex XIV

- list of substances subject to authorization

WGK 1, low water endangering No ingredients listed.



Canada

This product is exempt from WHMIS label and SDS requirements.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out...

Some hazardous ingredients listed in Section 15 are below the cutoff of 0.1% for carcinogen, mutagen and reproductive toxin and 1% for other health hazards required for reporting in Section 3.

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Catalog #: KIP0629

16 OTHER INFORMATION

DIAsource ImmunoAssays Safety
Rating

Flammability: 2
Health: 2
Reactivity with water: 0
Contact: 2

Reactivity with water: 0
Contact: 2

Hazard Class, hazard statements and risk phrase description from section 3

Flam. Liq. 2 – Flammable liquids, Category 2

Eye Irrit. 2 – Eye irritation, Category 2

H225 - Highly flammable liquid and vapor.

H319 - Causes serious eye irritation.

Abbreviations and Acronyms

ACGIH - American Conference of Governmental Industrial Hygienists

ADR and RID - European Agreement Concerning The International Carriage Of Dangerous Goods By Road and Rail

CERCLA - The Comprehensive Environmental Response, Compensation, and Liability Act

CLP - Classification, Labeling and Packaging

DFGMAK - Republic Germany's maximum exposure limit

GHS - Globally Harmonized System

HCS - Hazard Communication Standard

IARC - International Agency for Research on Cancer

IATA DGR - International Air Transport Association Dangerous Goods Regulation

ICAO - International Civil Aviation Organization

IMDG - International Maritime Dangerous Goods

IOELVs - European Unions' Indicative Occupational Exposure Limit Values

NIOSH - National Institute for Occupational Safety and Health

NTP - National Toxicology Program

OSHA - Occupational Safety and Health Administration

PBT - Persistent bioaccumulative and toxic substances

SARA - Superfund Amendments and Reauthorization Act

TDG - Canadian Transportation Of Dangerous Goods Regulations.

UN GHS - United Nations Globally Harmonized System

US DOT - United States Department of Transportation

WHMIS - Workplace Hazardous Material Information System

vPvB - Very persistent and very bioaccumulative substances

LD50 - Lethal Dose, 50%

For further information, please contact your local DIAsource ImmunoAssays representative.

Notification:

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English is acceptable for our MSDS as the following conditions are met:

• Medical specialists (users) are well educated in the English language

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Catalog #: KIP0629

TRACER BUFFER

1 INFORMATION OF THE SUBSTANCE/PREPARATION AND COMPANY

1.1 Product identifier

Product Name: Tracer buffer

Catalog #: Component of KIP0629

1.2 Intended Use

For In Vitro Diagnostic Use. See product literature for details.

1.3 Company

DIAsource ImmunoAssays S.A.

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E-mail: products.support@diasource.be

1.4 Emergency telephone

DIAsource (only office hours): +32 (0)10/84.99.23 Centre Anti-Poisons (BE) 070 245 245 Please refer to your local Anti-Poison Center!

2 HAZARDS IDENTIFICATION

2.1 <u>Classification of the substance or mixture</u>

Product Description Mixture

Yellowish; Clear; Liquid; Odorless

Classification according to EC 1272/2008 Not classified as hazardous per EC 1272/2008

(CLP/GHS) (CLP/GHS)

Classification according to US-OSHA Not classified as hazardous per US-OSHA HCS

(HCS 29 CFR 1910.1200) and UN GHS 2012 and UN GHS

2.2 Label elements

2.2.1 According to EC 1272/2008 (CLP/GHS), US-OSHA and UN GHS

Not classified as hazardous per EC 1272/2008 (CLP/GHS).

2.3 Other hazards

Results of PBT and vPvB assessment:

PBT: Not applicable. vPvB: Not applicable.

This product contains concentrations of azide below the hazardous level which with repeated contact with lead and copper commonly found in plumbing drains may result in the build up of shock sensitive compounds. Sodium azide forms explosive compounds with heavy metals.

 $See\ Section\ 11\ Toxicological\ Information\ for\ more\ detailed\ health\ information.$

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COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

| Hazardous Ingredients: | | Hazard Classification of Pure Ingredients | | |
|---|----------|--|--|-----|
| Chemical Name | % by wt. | EU 1272/2008 CLP/GHS | GHS | |
| Sodium Azide CAS # 26628-22-8 EINECS# 247-852-1 Index # 011-004-00-7 | < 0.1 | Acute Tox. Oral 2 Aquatic Acute 1 Aquatic Longterm 1 H300; H400; H410 | Acute Tox. Oral 2 Aquatic Acute 1 Aquatic Longterm 1 H300; H400; H410 | 2,8 |

See section 8 for available Occupational exposure limits

See Section 15 for additional regulatory information

See Section 16 for hazard class, hazard statements and risk phrase description

FIRST AID MEASURES 4

4.1 **Description of first aid measures**

Inhalation If product is inhaled, move exposed individual to fresh air. If individual is not

breathing, begin artificial respiration immediately and obtain medical attention.

If product enters eyes, wash eyes gently under running water for 15 minutes **Eve Contact**

or longer, making sure that the eyelids are held open. If pain or irritation occur,

obtain medical attention.

Skin Contact In case of skin contact, remove any contaminated clothing. Wash affected area with

plenty of soap and water for at least 15 minutes. If pain or irritation occur, obtain

medical attention.

Ingestion If ingested, wash mouth out with water. If irritation or discomfort occurs, seek

medical attention.

4.2 Most important symptoms and effects, both acute and delayed

No adverse symptoms or effects have been identified.

4.3 Indication of any immediate medical attention and special treatment needed

No specific medical attention or treatment required.

FIRE FIGHTING MEASURES

Flammable properties: Nonflammable aqueous solution.

5.1 **Extinguishing media**

In case of fire use carbon dioxide (CO2), dry chemical, water spray or foam.

For large fires use extinguishing media suitable for surrounding fire.

5.2 Special hazards arising from the substance or mixture

Special Fire and Explosion Hazards: No special hazards determined.

Hazardous Combustion Products: No combustion products posing significant hazards are expected from this product (an aqueous solution).

5.3 Advice for fire fighters

Protective Equipment: Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.

^{8 -} Present at concentration below the cut-off limits.

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5.4 Additional information

No further relevant information available.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precaution, protective equipment and emergency procedures

Personal Precautions: This product contains material of human origin and should be handled as though capable of transmitting infectious diseases. Observe general safety guidelines for protection during clean up procedures.

Wear protective gloves, protective clothing and eye/face protection.

Environmental Precautions

Contain spill to prevent migration.

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

6.3 Methods and material for containment and cleaning-up

Spill and Leak Procedures: As a precautionary measure, treat spilled material with a 1:10 bleach/water solution. Absorb liquid and place in container suitable for disposal. Avoid generation of aerosols during clean up. Comply with applicable waste disposal regulations.

6.4 Reference to other sections

Refer sections 8 and 13.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

This product should be handled as though capable of transmitting infectious diseases. Universal precautions should be followed when using this product.

7.2 Conditions for safe storage, including any incompatibilities

Store at 2 to 8°C, as directed on the product label.

To maintain product quality, store according to the instructions in the product labeling.

Store away from strong acids, strong bases, strong oxidizers and incompatible materials (section 10).

7.3 **Specific end uses**

No further relevant information available.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure Limits

US OSHA None established

ACGIH 0.29 mg/m³ Ceiling (as NaN₃); 0.11 ppm Ceiling (as Hydrazoic acid)

Sodium Azide (vapor

CAS# 26628-22-8

DFG MAK 0.4 mg/m³ Peak (inhalable fraction); 0.2 mg/m³ TWA MAK

Sodium Azide (inhalable fraction)

CAS# 26628-22-8 **Ireland**0.1 mg/m³ TWA (as NaN₃); 0.3 mg/m³ STEL (as NaN₃); Potential

Sodium Azide for cutaneous absorption

IOELVs Possibility of significant uptake through the skin; 0.1 mg/m³ TWA;

Sodium Azide 0.3 mg/m³ STEL

CAS# 26628-22-8

CAS# 26628-22-8

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(According to regulation (EC) 1907/2006 and amendments)

Product Name: E2 – RIA - CT

Catalog #: KIP0629

NIOSH None established Japan None established

8.2 Exposure controls

Engineering Controls No special engineering controls are required. Use with good general

ventilation.

Eye Protection Safety glasses or chemical goggles should be worn to prevent eye

contact.

Refer U.S. OSHA 29 CFR 1910.133, European Standard EN166 or

appropriate government standards.

Skin Protection Impervious gloves, such as Nitrile or equivalent, should be worn to

prevent skin contact.

Refer U.S. OSHA 29 CFR 1910.138, European Standard EN374 or

appropriate government standards.

Respiratory Protection Under normal conditions, the use of this product should not require

respiratory protection.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| Physical State | Liquid | Specific Gravity (water = 1.0) | 1.00 @20°C |
|-----------------------|----------------|----------------------------------|----------------|
| Color | Yellowish | Solubility: | |
| Transparency | Clear | Water | Miscible |
| Odor | Odorless | Organic | Not determined |
| pН | 5.0 | Coefficien of Water/Oil | Not determined |
| | | Distribution | |
| Freezing Point | Not determined | Autoignition Temp. | Not applicable |
| Boiling Point | Not determined | Decomposition Temperature | Not determined |
| Flash Point | Not applicable | Percent Volatiles | Not applicable |
| Evaporate Rate | Not determined | Vapor Pressure | Not determined |
| Flammability (Solid, | Not applicable | Viscosity | Not determined |
| Gas) | | | |
| Flammable Limits | Not determined | Explosive Properties | Not applicable |
| Vapor Density | Not determined | Oxidizing Properties | Not determined |
| Odor threshold | Not applicable | | |

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

The product is stable in accordance with recommended storage conditions.

10.3 Possibility of hazardous reactions

Sodium azide forms explosive compounds with heavy metals. Repeated contact of low concentrations of azide with lead and copper commonly found in plumbing drains may result in the build up of shock sensitive compounds.

10.4 Conditions to Avoid

Avoid contact with incompatible materials.

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2 rue du Bosquet



(According to regulation (EC) 1907/2006 and amendments)

Product Name: E2 – RIA - CT

Catalog #: KIP0629

Avoid exposure to heat and direct sunlight.

10.5 <u>Incompatible materials</u>

Metals and metallic compounds

10.6 Hazardous Decomposition Products

No decomposition products posing significant hazards would be expected from this product (an aqueous solution).

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Toxicity Data for Hazardous Oral LD50 Rat 27 mg/kg; Dermal LD50 Rat 50 mg/kg;

Ingredients Dermal LD50 Rabbit 20 mg/kg

Sodium Azide CAS# 26628-22-8

Primary Routes of ExposureCommon routes of entry include inhalation, ingestion and

eye/skin contact.

Specific paths of concern for potentially infectious materials are skin puncture, contact with broken skin, contact with mucous membranes and inhalation of

aerosolized material.

Skin Corrosion/IrritationNo data available.Serious eye damage/eye irritationNo data available.Respiratory/skin sensitizationNo data available.

Carcinogenicity No ingredients in this product are listed as carcinogens by

ACGIH, IARC, NTP, OSHA or 1272/2008 EC

regulation.

Germ cell mutagenicity
Reproductive Toxicity
No data available.

No data available.

No data available.

No data available.

exposure

Specific target organ toxicity - No data available.

repeated exposure

Aspiration hazard No data available.

Other information This product contains material of human origin and

should be considered as potentially capable of

transmitting infectious diseases.

12 ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Fresh Water Species96 h LC50 Oncorhynchus mykiss: 0.8 mg/L; 96 h LC50 Sodium Azide
Lepomis macrochirus:0.7 mg/L; 96 h LC50 Pimephales

CAS# 26628-22-8 promelas: 5.46 mg/L [flow-through]

MicrotoxNo information availableWater FleaNo information availableFresh Water AlgaeNo information available

12.2 Persistence and degradability

Not determined for the product.

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2 rue du Bosquet

MATERIEL SAFETY DATA SHEET

(According to regulation (EC) 1907/2006 and amendments)

Product Name: E2 – RIA - CT

Catalog #: KIP0629

12.3 Bioaccumulation

Not determined for the product.

12.4 Mobility in soil

Not determined for the product.

12.5 Results of PBT and vPvB assessment

Not determined for the product. PBT: Not applicable, vPvB: Not applicable.

12.6 Other adverse effects

This product contains environmentally hazardous substance below the cutoff level. Refer section 3 for ingredient information. Do not allow undiluted product to enter sewer/surface or ground water.

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product Waste Disposal:

Chemical residues and remains should be routinely handled as special waste. This must be disposed of in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or an approved waste-disposal company for information.

Sodium azide preservative may form explosive compounds in metal drain lines. See NIOSH Bulletin: Explosive Azide Hazard (8/16/76).

To avoid the possible build-up of azide compounds, flush wastepipes with water after the disposal of undiluted reagent. Sodium azide disposal must be in accordance with appropriate local regulations.

Dispose of as potentially biohazardous waste and in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or and approved waste-disposal company for information.

Package disposal:

Dispose of waste product, unused product and contaminated packaging in compliance with federal, state and local regulations. If unsure of the applicable requirements, contact the authorities for information.

13.2 Additional Information

Suggested European waste catalogue 18 01 03* - wastes whose collection and disposal is subject to special requirements in order to prevent infection. Dispose in accordance with national, state and local waste regulations.

14 TRANSPORT INFORMATION

Transportation of this product is not regulated under ICAO, IMDG, US DOT, European ADR or Canadian TDG.

15 REGULATORY INFORMATION

2/12/22

15.1 <u>Safety, health and environmental regulation/legislation specific for the substance or mixture</u>

Us Federal and State Regulations

Printing date



(According to regulation (EC) 1907/2006 and amendments)

Product Name: E2 – RIA - CT

Catalog #: KIP0629

SARA 313 Sodium Azide is subject to reporting requirements of

Section 313, Title III of SARA. 1.0 % de minimis

concentration.

CERCLA RG's, 40 CFR 302.4 Sodium Azide is listed.

California Proposition 65 No ingredients listed.

Massachusetts MSL Sodium Azide is listed.

New Jersey Dept. of Health RTK List Sodium Azide is listed.

Pennsylvania RTK Sodium Azide is listed.

EU regulations

This SDS complies with EC Regulations 1907/2006 (REACH) and amendments.

REACH 1907/2006 EC - Annex XIV

No ingredients listed.

- list of substances subject to

authorization

Canada

This product does not meet WHMIS criteria for hazardous materials.

PIN Not applicable Ingredients on Ingredient Disclosure Sodium Azide

List

Ingredient with unknown Product is exempt

toxicological properties

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

Some hazardous ingredients listed in Section 15 are below OSHAs and WHMIS' 1.0% w/w (0.1% for carcinogens) or EU's ingredient specific concentrations required for reporting in Section 3.

16 OTHER INFORMATION

| | Flammability: 0 | Code 0 - None |
|-------------------------------|--------------------------|------------------------|
| DIAsource ImmunoAssays Safety | Health: 1 | 0 = None 1 - Slight |
| Rating | Reactivity with water: 0 | 2 = Caution |
| | | 3 = Severe |

Hazard Class, hazard statements and risk phrase description from section 3

Aquatic Acute 1 - Aquatic Hazard Acute, Category 1

Acute Tox. Oral 2 - Acute Toxicity Oral, Category 2

Aquatic Longterm 1 - Aquatic Hazard Long term, Category 1

H300 - Fatal if swallowed.

H400 - Very toxic to aquatic life.

H410 - Very toxic to aquatic life with long lasting effects.

Abbreviations and Acronyms

ACGIH - American Conference of Governmental Industrial Hygienists

ADR - European Agreement Concerning The International Carriage Of Dangerous Goods By Road CERCLA - The Comprehensive Environmental Response, Compensation, and Liability Act

CLP - Classification, Labeling and Packaging

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2 rue du Bosquet

MATERIEL SAFETY DATA SHEET

(According to regulation (EC) 1907/2006 and amendments)

Product Name: E2 – RIA - CT

Catalog #: KIP0629

DFGMAK - Republic Germany's maximum exposure limit

GHS - Globally Harmonized System

HCS - Hazard Communication Standard

IARC - International Agency for Research on Cancer

IATA - International Air Transport Association

ICAO - International Civil Aviation Organization

IMDG - International Maritime Dangerous Goods

IOELVs - European Unions' Indicative Occupational Exposure Limit Values

NIOSH - National Institute for Occupational Safety and Health

NTP - National Toxicology Program

OSHA - Occupational Safety and Health Administration

PBT - Persistent bioaccumulative and toxic substances

SARA - Superfund Amendments and Reauthorization Act

TDG - Canadian Transportation Of Dangerous Goods Regulations.

UN GHS - United Nations Globally Harmonized System

US DOT - United States Department of Transportation

WHMIS - Workplace Hazardous Material Information System

vPvB - Very persistent and very bioaccumulative substances

LC50 - Lethal Concentration, 50%

LD50 - Lethal Dose, 50%

For further information, please contact your local DIAsource ImmunoAssays representative.

Notification:

English is acceptable for our MSDS as the following conditions are met:

• Medical specialists (users) are well educated in the English language

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(According to regulation (EC) 1907/2006 and amendments)

Product Name: E2 – RIA - CT

Catalog #: KIP0629

DILUENT SPECIMEN

1 INFORMATION OF THE SUBSTANCE/PREPARATION AND COMPANY

1.1 Product identifier

Product Name: Diluent Specimen

Catalog #: Component of KIP0629

1.2 Intended Use

For In Vitro Diagnostic Use. See product literature for details.

1.3 Company

DIAsource ImmunoAssays S.A.

Rue du Bosquet, 2

B-1348 Louvain-la-Neuve

Belgium

Tel. Nr. +32 (0)10/84.99.11

E-mail: products.support@diasource.be

1.4 Emergency telephone

DIAsource (only office hours): +32 (0)10/84.99.23 Centre Anti-Poisons (BE) 070 245 245 Please refer to your local Anti-Poison Center!

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Product Description Mixture

Yellowish; Clear; Liquid; Odorless

Classification according to EC 1272/2008 Not classified as hazardous per EC 1272/2008

(CLP/GHS) (CLP/GHS)

Classification according to US-OSHA

Not classified as hazardous per US-OSHA HCS

(HCS 29 CFR 1910.1200) and UN GHS 2012 and UN GHS

2.2 Label elements

2.2.1 According to EC 1272/2008 (CLP/GHS), US-OSHA and UN GHS

Not classified as hazardous per EC 1272/2008 (CLP/GHS).

2.3 Other hazards

Results of PBT and vPvB assessment:

PBT: Not applicable. vPvB: Not applicable.

This product contains concentrations of azide below the hazardous level which with repeated contact with lead and copper commonly found in plumbing drains may result in the build up of shock sensitive compounds. Sodium azide forms explosive compounds with heavy metals.

See Section 11 Toxicological Information for more detailed health information.

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DIAsource ImmunoAssays S.A

2 rue du Bosquet 1348 - Louvain-la-Neuve Belgium



(According to regulation (EC) 1907/2006 and amendments)

Product Name: E2 – RIA - CT

Catalog #: KIP0629

COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

| Hazardous Ingredients: | | Hazard Classification of Pure Ingredients | | |
|---|------------------|--|--|-----|
| Chemical Name | % by wt. | EU 1272/2008 CLP/GHS | GHS | |
| Sodium Azide CAS # 26628-22-8 EINECS# 247-852-1 Index # 011-004-00-7 | < 0.1 | Acute Tox. Oral 2 Aquatic Acute 1 Aquatic Longterm 1 H300; H400; H410 | Acute Tox. Oral 2 Aquatic Acute 1 Aquatic Longterm 1 H300; H400; H410 | 2,8 |
| 2 - Substance with Communit | v workplace expo | sure limits | <u> </u> | |

See section 8 for available Occupational exposure limits

See Section 15 for additional regulatory information

See Section 16 for hazard class, hazard statements and risk phrase description

FIRST AID MEASURES 4

4.1 **Description of first aid measures**

Inhalation If product is inhaled, move exposed individual to fresh air. If individual is not

breathing, begin artificial respiration immediately and obtain medical attention.

If product enters eyes, wash eyes gently under running water for 15 minutes **Eve Contact**

or longer, making sure that the eyelids are held open. If pain or irritation occur,

obtain medical attention.

Skin Contact In case of skin contact, remove any contaminated clothing. Wash affected area with

plenty of soap and water for at least 15 minutes. If pain or irritation occur, obtain

medical attention.

Ingestion If ingested, wash mouth out with water. If irritation or discomfort occurs, seek

medical attention.

4.2 Most important symptoms and effects, both acute and delayed

No adverse symptoms or effects have been identified.

4.3 Indication of any immediate medical attention and special treatment needed

No specific medical attention or treatment required.

FIRE FIGHTING MEASURES

Flammable properties: Nonflammable aqueous solution.

5.1 **Extinguishing media**

In case of fire use carbon dioxide (CO2), dry chemical, water spray or foam.

For large fires use extinguishing media suitable for surrounding fire.

5.2 Special hazards arising from the substance or mixture

Special Fire and Explosion Hazards: No special hazards determined.

Hazardous Combustion Products: No combustion products posing significant hazards are expected from this product (an aqueous solution).

5.3 Advice for fire fighters

Printing date

Protective Equipment: Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.

^{8 -} Present at concentration below the cut-off limits.

MATERIEL SAFETY DATA SHEET

(According to regulation (EC) 1907/2006 and amendments)

Product Name: E2 – RIA - CT

Catalog #: KIP0629

5.4 Additional information

No further relevant information available.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precaution, protective equipment and emergency procedures

Personal Precautions: This product contains material of human origin and should be handled as though capable of transmitting infectious diseases. Observe general safety guidelines for protection during clean up procedures.

Wear protective gloves, protective clothing and eye/face protection.

Environmental Precautions

Contain spill to prevent migration.

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

6.3 Methods and material for containment and cleaning-up

Spill and Leak Procedures: As a precautionary measure, treat spilled material with a 1:10 bleach/water solution. Absorb liquid and place in container suitable for disposal. Avoid generation of aerosols during clean up. Comply with applicable waste disposal regulations.

6.4 Reference to other sections

Refer sections 8 and 13.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

This product should be handled as though capable of transmitting infectious diseases. Universal precautions should be followed when using this product.

7.2 Conditions for safe storage, including any incompatibilities

Store at 2 to 8°C, as directed on the product label.

To maintain product quality, store according to the instructions in the product labeling.

Store away from strong acids, strong bases, strong oxidizers and incompatible materials (section 10).

7.3 **Specific end uses**

No further relevant information available.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure Limits

US OSHA None established

ACGIH 0.29 mg/m³ Ceiling (as NaN₃); 0.11 ppm Ceiling (as Hydrazoic acid)

Sodium Azide (vapor

CAS# 26628-22-8

DFG MAK 0.4 mg/m³ Peak (inhalable fraction); 0.2 mg/m³ TWA MAK

Sodium Azide (inhalable fraction)

CAS# 26628-22-8

Ireland 0.1 mg/m³ TWA (as NaN₃); 0.3 mg/m³ STEL (as NaN₃); Potential

Sodium Azide for cutaneous absorption CAS# 26628-22-8

IOELVs Possibility of significant uptake through the skin; 0.1 mg/m³ TWA;

Sodium Azide 0.3 mg/m³ STEL

CAS# 26628-22-8

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2 rue du Bosquet



(According to regulation (EC) 1907/2006 and amendments)

Product Name: E2 – RIA - CT

Catalog #: KIP0629

NIOSH None established
Japan None established

8.2 Exposure controls

Engineering Controls No special engineering controls are required. Use with good general

ventilation.

Eye Protection Safety glasses or chemical goggles should be worn to prevent eye

contact.

Refer U.S. OSHA 29 CFR 1910.133, European Standard EN166 or

appropriate government standards.

Skin Protection Impervious gloves, such as Nitrile or equivalent, should be worn to

prevent skin contact.

Refer U.S. OSHA 29 CFR 1910.138, European Standard EN374 or

appropriate government standards.

Respiratory Protection Under normal conditions, the use of this product should not require

respiratory protection.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| Physical State | Liquid | Specific Gravity (water = 1.0) | 1.02 @20°C |
|-----------------------|----------------|----------------------------------|----------------|
| Color | Yellowish | Solubility: | |
| Transparency | Clear | Water | Miscible |
| Odor | Odorless | Organic | Not determined |
| pН | Not determined | Coefficien of Water/Oil | Not determined |
| | | Distribution | |
| Freezing Point | Not determined | Autoignition Temp. | Not applicable |
| Boiling Point | Not determined | Decomposition Temperature | Not determined |
| Flash Point | Not applicable | Percent Volatiles | Not applicable |
| Evaporate Rate | Not determined | Vapor Pressure | Not determined |
| Flammability (Solid, | Not applicable | Viscosity | Not determined |
| Gas) | | | |
| Flammable Limits | Not determined | Explosive Properties | Not applicable |
| Vapor Density | Not determined | Oxidizing Properties | Not determined |
| Odor threshold | Not applicable | | |

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

The product is stable in accordance with recommended storage conditions.

10.3 Possibility of hazardous reactions

Sodium azide forms explosive compounds with heavy metals. Repeated contact of low concentrations of azide with lead and copper commonly found in plumbing drains may result in the build up of shock sensitive compounds.

10.4 Conditions to Avoid

Avoid contact with incompatible materials.

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2 rue du Bosquet



(According to regulation (EC) 1907/2006 and amendments)

Product Name: E2 – RIA - CT

Catalog #: KIP0629

Avoid exposure to heat and direct sunlight.

10.5 <u>Incompatible materials</u>

Metals and metallic compounds

10.6 Hazardous Decomposition Products

No decomposition products posing significant hazards would be expected from this product (an aqueous solution).

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Toxicity Data for Hazardous Oral LD50 Rat 27 mg/kg; Dermal LD50 Rat 50 mg/kg;

Ingredients Dermal LD50 Rabbit 20 mg/kg

Sodium Azide CAS# 26628-22-8

Primary Routes of ExposureCommon routes of entry include inhalation, ingestion and

eye/skin contact.

Specific paths of concern for potentially infectious materials are skin puncture, contact with broken skin, contact with mucous membranes and inhalation of

aerosolized material.

Skin Corrosion/IrritationNo data available.Serious eye damage/eye irritationNo data available.Respiratory/skin sensitizationNo data available.

Carcinogenicity No ingredients in this product are listed as carcinogens by

ACGIH, IARC, NTP, OSHA or 1272/2008 EC

regulation.

Germ cell mutagenicity Reproductive ToxicityNo data available. **Specific target organ toxicity - single**No data available.

exposure

Specific target organ toxicity - No data available.

repeated exposure

Aspiration hazard No data available.

Other information This product contains material of human origin and

should be considered as potentially capable of

transmitting infectious diseases.

12 ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Fresh Water Species 96 h LC50 Oncorhynchus mykiss: 0.8 mg/L; 96 h LC50 Sodium Azide Lepomis macrochirus: 0.7 mg/L; 96 h LC50 Pimephales

cas# 26628-22-8 promelas: 5.46 mg/L [flow-through]

MicrotoxNo information availableWater FleaNo information available

Fresh Water Algae static test ErC50 - Pseudokirchneriella subcapitata - 0,35

mg/l - 96 h (OECD Test Guideline 201

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2 rue du Bosquet

MATERIEL SAFETY DATA SHEET

(According to regulation (EC) 1907/2006 and amendments)

Product Name: E2 – RIA - CT

Catalog #: KIP0629

12.2 Persistence and degradability

Not determined for the product.

12.3 Bioaccumulation

Not determined for the product.

12.4 Mobility in soil

Not determined for the product.

12.5 Results of PBT and vPvB assessment

Not determined for the product. PBT: Not applicable, vPvB: Not applicable.

12.6 Other adverse effects

This product contains environmentally hazardous substance below the cutoff level. Refer section 3 for ingredient information. Do not allow undiluted product to enter sewer/surface or ground water.

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product Waste Disposal:

Chemical residues and remains should be routinely handled as special waste. This must be disposed of in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or an approved waste-disposal company for information.

Sodium azide preservative may form explosive compounds in metal drain lines.

See NIOSH Bulletin: Explosive Azide Hazard (8/16/76).

To avoid the possible build-up of azide compounds, flush wastepipes with water after the disposal of undiluted reagent. Sodium azide disposal must be in accordance with appropriate local regulations.

Dispose of as potentially biohazardous waste and in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or and approved waste-disposal company for information.

Package disposal:

Dispose of waste product, unused product and contaminated packaging in compliance with federal, state and local regulations. If unsure of the applicable requirements, contact the authorities for information.

13.2 Additional Information

Suggested European waste catalogue $18\,01\,03^*$ - wastes whose collection and disposal is subject to special requirements in order to prevent infection. Dispose in accordance with national, state and local waste regulations.

14 TRANSPORT INFORMATION

Transportation of this product is not regulated under ICAO, IMDG, US DOT, European ADR or Canadian TDG.

15 REGULATORY INFORMATION

15.1 <u>Safety, health and environmental regulation/legislation specific for the substance or mixture</u>

Us Federal and State Regulations



(According to regulation (EC) 1907/2006 and amendments)

Product Name: E2 – RIA - CT

Catalog #: KIP0629

SARA 313 Sodium Azide is subject to reporting requirements of

Section 313, Title III of SARA. 1.0 % de minimis

concentration.

CERCLA RG's, 40 CFR 302.4 Sodium Azide is listed.

California Proposition 65 No ingredients listed.

Massachusetts MSL Sodium Azide is listed.

New Jersey Dept. of Health RTK List Sodium Azide is listed.

Pennsylvania RTK Sodium Azide is listed.

EU regulations

This SDS complies with EC Regulations 1907/2006 (REACH) and amendments.

REACH 1907/2006 EC - Annex XIV

No ingredients listed.

- list of substances subject to

authorization

Canada

This product does not meet WHMIS criteria for hazardous materials.

PIN Not applicable Ingredients on Ingredient Disclosure Sodium Azide

List

Ingredient with unknown Product is exempt

toxicological properties

15.2 <u>Chemical Safety Assessment</u>

A Chemical Safety Assessment has not been carried out.

Some hazardous ingredients listed in Section 15 are below OSHAs and WHMIS' 1.0% w/w (0.1% for carcinogens) or EU's ingredient specific concentrations required for reporting in Section 3.

16 OTHER INFORMATION

| DIAsource ImmunoAssays Safety | Flammability: 0 Health: 1 | Code 0 = None 1 = Slight |
|-------------------------------|-------------------------------------|--------------------------------|
| Rating | Reactivity with water: 0 Contact: 1 | 2 = Caution 3 = Severe |

Hazard Class, hazard statements and risk phrase description from section 3

Aquatic Acute 1 - Aquatic Hazard Acute, Category 1

Acute Tox. Oral 2 - Acute Toxicity Oral, Category 2

Aquatic Longterm 1 - Aquatic Hazard Long term, Category 1

H300 - Fatal if swallowed.

H400 - Very toxic to aquatic life.

H410 - Very toxic to aquatic life with long lasting effects.

Abbreviations and Acronyms

ACGIH - American Conference of Governmental Industrial Hygienists

ADR - European Agreement Concerning The International Carriage Of Dangerous Goods By Road CERCLA - The Comprehensive Environmental Response, Compensation, and Liability Act

CLP - Classification, Labeling and Packaging

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2 rue du Bosquet

MATERIEL SAFETY DATA SHEET

(According to regulation (EC) 1907/2006 and amendments)

Product Name: E2 – RIA - CT

Catalog #: KIP0629

DFGMAK - Republic Germany's maximum exposure limit

GHS - Globally Harmonized System

HCS - Hazard Communication Standard

IARC - International Agency for Research on Cancer

IATA - International Air Transport Association

ICAO - International Civil Aviation Organization

IMDG - International Maritime Dangerous Goods

IOELVs - European Unions' Indicative Occupational Exposure Limit Values

NIOSH - National Institute for Occupational Safety and Health

NTP - National Toxicology Program

OSHA - Occupational Safety and Health Administration

PBT - Persistent bioaccumulative and toxic substances

SARA - Superfund Amendments and Reauthorization Act

TDG - Canadian Transportation Of Dangerous Goods Regulations.

UN GHS - United Nations Globally Harmonized System

US DOT - United States Department of Transportation

WHMIS - Workplace Hazardous Material Information System

vPvB - Very persistent and very bioaccumulative substances

LC50 - Lethal Concentration, 50%

LD50 - Lethal Dose, 50%

For further information, please contact your local DIAsource ImmunoAssays representative.

Notification:

English is acceptable for our MSDS as the following conditions are met:

• Medical specialists (users) are well educated in the English language

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(According to regulation (EC) 1907/2006 and amendments)

Product Name: E2 – RIA - CT

Catalog #: KIP0629

CALIBRATORS

1 INFORMATION OF THE SUBSTANCE/PREPARATION AND COMPANY

1.1 **Product identifier**

Product Name: Calibrators

Catalog #: Component of KIP0629

1.2 Intended Use

For In Vitro Diagnostic Use. See product literature for details.

1.3 Company

DIAsource ImmunoAssays S.A.

Rue du Bosquet, 2

B-1348 Louvain-la-Neuve

Belgium

Tel. Nr. +32 (0)10/84.99.11

E-mail: products.support@diasource.be

1.4 Emergency telephone

DIAsource (only office hours): +32 (0)10/84.99.23 Centre Anti-Poisons (BE) 070 245 245 Please refer to your local Anti-Poison Center!

2 HAZARDS IDENTIFICATION

2.1 <u>Classification of the substance or mixture</u>

Product Description Mixture

Yellowish; Clear; Liquid; Odorless

Classification according to EC 1272/2008

Not classified as hazardous per EC 1272/2008

(CLP/GHS)

(CLP/GHS)

Classification according to US-OSHA

Not classified as hazardous per US-OSHA HCS

(HCS 29 CFR 1910.1200) and UN GHS

2012 and UN GHS

2.2 Label elements

2.2.1 According to EC 1272/2008 (CLP/GHS), US-OSHA and UN GHS

Not classified as hazardous per EC 1272/2008 (CLP/GHS).

2.3 Other hazards

Results of PBT and vPvB assessment:

PBT: Not applicable. vPvB: Not applicable.

This product contains concentrations of azide below the hazardous level which with repeated contact with lead and copper commonly found in plumbing drains may result in the build up of shock sensitive compounds. Sodium azide forms explosive compounds with heavy metals.

See Section 11 Toxicological Information for more detailed health information.

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COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

| Hazardous Ingredients: | | Hazard Classification of Pure Ingredients | | |
|---|-------|--|--|-----|
| Chemical Name % by wt. | | EU 1272/2008 CLP/GHS | GHS | |
| Sodium Azide CAS # 26628-22-8 EINECS# 247-852-1 Index # 011-004-00-7 | < 0.5 | Acute Tox. Oral 2 Aquatic Acute 1 Aquatic Longterm 1 H300; H400; H410 | Acute Tox. Oral 2 Aquatic Acute 1 Aquatic Longterm 1 H300; H400; H410 | 2,8 |

See section 8 for available Occupational exposure limits

See Section 15 for additional regulatory information

See Section 16 for hazard class, hazard statements and risk phrase description

FIRST AID MEASURES 4

4.1 **Description of first aid measures**

Inhalation If product is inhaled, move exposed individual to fresh air. If individual is not

breathing, begin artificial respiration immediately and obtain medical attention.

If product enters eyes, wash eyes gently under running water for 15 minutes **Eve Contact**

or longer, making sure that the eyelids are held open. If pain or irritation occur,

obtain medical attention.

Skin Contact In case of skin contact, remove any contaminated clothing. Wash affected area with

plenty of soap and water for at least 15 minutes. If pain or irritation occur, obtain

medical attention.

Ingestion If ingested, wash mouth out with water. If irritation or discomfort occurs, seek

medical attention.

4.2 Most important symptoms and effects, both acute and delayed

No adverse symptoms or effects have been identified.

4.3 Indication of any immediate medical attention and special treatment needed

No specific medical attention or treatment required.

FIRE FIGHTING MEASURES

Flammable properties: Nonflammable aqueous solution.

5.1 **Extinguishing media**

In case of fire use carbon dioxide (CO2), dry chemical, water spray or foam.

For large fires use extinguishing media suitable for surrounding fire.

5.2 Special hazards arising from the substance or mixture

Special Fire and Explosion Hazards: No special hazards determined.

Hazardous Combustion Products: No combustion products posing significant hazards are expected from this product (an aqueous solution).

5.3 Advice for fire fighters

Printing date

Protective Equipment: Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.

^{8 -} Present at concentration below the cut-off limits.

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5.4 Additional information

No further relevant information available.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precaution, protective equipment and emergency procedures

Personal Precautions: This product contains material of human origin and should be handled as though capable of transmitting infectious diseases. Observe general safety guidelines for protection during clean up procedures.

Wear protective gloves, protective clothing and eye/face protection.

Environmental Precautions

Contain spill to prevent migration.

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

6.3 Methods and material for containment and cleaning-up

Spill and Leak Procedures: As a precautionary measure, treat spilled material with a 1:10 bleach/water solution. Absorb liquid and place in container suitable for disposal. Avoid generation of aerosols during clean up. Comply with applicable waste disposal regulations.

6.4 Reference to other sections

Refer sections 8 and 13.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

This product should be handled as though capable of transmitting infectious diseases. Universal precautions should be followed when using this product.

7.2 Conditions for safe storage, including any incompatibilities

Store at 2 to 8°C, as directed on the product label.

To maintain product quality, store according to the instructions in the product labeling.

Store away from strong acids, strong bases, strong oxidizers and incompatible materials (section 10).

7.3 **Specific end uses**

No further relevant information available.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure Limits

US OSHA None established

ACGIH 0.29 mg/m³ Ceiling (as NaN₃); 0.11 ppm Ceiling (as Hydrazoic acid)

Sodium Azide (vapor

CAS# 26628-22-8

DFG MAK 0.4 mg/m³ Peak (inhalable fraction); 0.2 mg/m³ TWA MAK

Sodium Azide (inhalable fraction)

CAS# 26628-22-8

Ireland 0.1 mg/m³ TWA (as NaN₃); 0.3 mg/m³ STEL (as NaN₃); Potential

Sodium Azide for cutaneous absorption

IOELVs Possibility of significant uptake through the skin; 0.1 mg/m³ TWA;

Sodium Azide 0.3 mg/m³ STEL

CAS# 26628-22-8

CAS# 26628-22-8

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NIOSH None established Japan None established

8.2 Exposure controls

Engineering Controls No special engineering controls are required. Use with good general

ventilation.

Eye Protection Safety glasses or chemical goggles should be worn to prevent eye

contact.

Refer U.S. OSHA 29 CFR 1910.133, European Standard EN166 or

appropriate government standards.

Skin Protection Impervious gloves, such as Nitrile or equivalent, should be worn to

prevent skin contact.

Refer U.S. OSHA 29 CFR 1910.138, European Standard EN374 or

appropriate government standards.

Respiratory Protection Under normal conditions, the use of this product should not require

respiratory protection.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| Physical State | Liquid | Specific Gravity (water = 1.0) | 1.02 @20°C |
|----------------------|----------------|----------------------------------|----------------|
| Color | Yellowish | Solubility: | |
| Transparency | Clear | Water | Miscible |
| Odor | Odorless | Organic | Not determined |
| pН | 7.4 | Coefficien of Water/Oil | Not determined |
| | | Distribution | |
| Freezing Point | Not determined | Autoignition Temp. | Not applicable |
| Boiling Point | Not determined | Decomposition Temperature | Not determined |
| Flash Point | Not applicable | Percent Volatiles | Not applicable |
| Evaporate Rate | Not determined | Vapor Pressure | Not determined |
| Flammability (Solid, | Not applicable | Viscosity | Not determined |
| Gas) | | | |
| Flammable Limits | Not determined | Explosive Properties | Not applicable |
| Vapor Density | Not determined | Oxidizing Properties | Not determined |
| Odor threshold | Not applicable | | |

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

The product is stable in accordance with recommended storage conditions.

10.3 Possibility of hazardous reactions

Sodium azide forms explosive compounds with heavy metals. Repeated contact of low concentrations of azide with lead and copper commonly found in plumbing drains may result in the build up of shock sensitive compounds.

10.4 Conditions to Avoid

Avoid contact with incompatible materials.

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Avoid exposure to heat and direct sunlight.

10.5 Incompatible materials

Metals and metallic compounds

10.6 Hazardous Decomposition Products

No decomposition products posing significant hazards would be expected from this product (an aqueous solution).

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Toxicity Data for Hazardous Oral LD50 Rat 27 mg/kg; Dermal LD50 Rat 50 mg/kg;

Ingredients Dermal LD50 Rabbit 20 mg/kg

Sodium Azide CAS# 26628-22-8

Primary Routes of ExposureCommon routes of entry include inhalation, ingestion and

eye/skin contact.

Specific paths of concern for potentially infectious materials are skin puncture, contact with broken skin, contact with mucous membranes and inhalation of

aerosolized material.

Skin Corrosion/IrritationNo data available.Serious eye damage/eye irritationNo data available.Respiratory/skin sensitizationNo data available.

Carcinogenicity No ingredients in this product are listed as carcinogens by

ACGIH, IARC, NTP, OSHA or 1272/2008 EC

regulation.

Germ cell mutagenicity Reproductive ToxicityNo data available. **Specific target organ toxicity - single**No data available.

exposure

Specific target organ toxicity - No data available.

repeated exposure

Aspiration hazard No data available.

Other information This product contains material of human origin and

should be considered as potentially capable of

transmitting infectious diseases.

12 ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Fresh Water Species96 h LC50 Oncorhynchus mykiss: 0.8 mg/L; 96 h LC50 Sodium Azide
Lepomis macrochirus: 0.7 mg/L; 96 h LC50 Pimephales

cas# 26628-22-8 promelas: 5.46 mg/L [flow-through]

MicrotoxNo information availableWater FleaNo information available

Fresh Water Algae static test ErC50 - Pseudokirchneriella subcapitata - 0,35

mg/l - 96 h (OECD Test Guideline 201

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12.2 Persistence and degradability

Not determined for the product.

12.3 Bioaccumulation

Not determined for the product.

12.4 Mobility in soil

Not determined for the product.

12.5 Results of PBT and vPvB assessment

Not determined for the product. PBT: Not applicable, vPvB: Not applicable.

12.6 Other adverse effects

This product contains environmentally hazardous substance below the cutoff level. Refer section 3 for ingredient information. Do not allow undiluted product to enter sewer/surface or ground water.

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product Waste Disposal:

Chemical residues and remains should be routinely handled as special waste. This must be disposed of in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or an approved waste-disposal company for information.

Sodium azide preservative may form explosive compounds in metal drain lines.

See NIOSH Bulletin: Explosive Azide Hazard (8/16/76).

To avoid the possible build-up of azide compounds, flush wastepipes with water after the disposal of undiluted reagent. Sodium azide disposal must be in accordance with appropriate local regulations.

Dispose of as potentially biohazardous waste and in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or and approved waste-disposal company for information.

Package disposal:

Dispose of waste product, unused product and contaminated packaging in compliance with federal, state and local regulations. If unsure of the applicable requirements, contact the authorities for information.

13.2 Additional Information

Suggested European waste catalogue $18\,01\,03^*$ - wastes whose collection and disposal is subject to special requirements in order to prevent infection. Dispose in accordance with national, state and local waste regulations.

14 TRANSPORT INFORMATION

Transportation of this product is not regulated under ICAO, IMDG, US DOT, European ADR or Canadian TDG.

15 REGULATORY INFORMATION

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15.1 <u>Safety, health and environmental regulation/legislation specific for the substance or mixture</u>

Us Federal and State Regulations



(According to regulation (EC) 1907/2006 and amendments)

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SARA 313 Sodium Azide is subject to reporting requirements of

Section 313, Title III of SARA. 1.0 % de minimis

concentration.

CERCLA RG's, 40 CFR 302.4 Sodium Azide is listed.

California Proposition 65 No ingredients listed.

Massachusetts MSL Sodium Azide is listed.

New Jersey Dept. of Health RTK List Sodium Azide is listed.

Pennsylvania RTK Sodium Azide is listed.

EU regulations

This SDS complies with EC Regulations 1907/2006 (REACH) and amendments.

REACH 1907/2006 EC - Annex XIV

No ingredients listed.

- list of substances subject to

authorization

Canada

This product does not meet WHMIS criteria for hazardous materials.

PIN Not applicable Ingredients on Ingredient Disclosure Sodium Azide

List

Ingredient with unknown Product is exempt

toxicological properties

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

Some hazardous ingredients listed in Section 15 are below OSHAs and WHMIS' 1.0% w/w (0.1% for carcinogens) or EU's ingredient specific concentrations required for reporting in Section 3.

16 OTHER INFORMATION

| | Flammability: 0 Health: 1 | Code |
|-------------------------------|------------------------------|------------------------|
| DIAsource ImmunoAssays Safety | Health: 1 | U = None 1 - Slight |
| Rating | Reactivity with water: 0 | 2 = Caution |
| | Contact: 1 | 3 = Severe |

Hazard Class, hazard statements and risk phrase description from section 3

Aquatic Acute 1 - Aquatic Hazard Acute, Category 1

Acute Tox. Oral 2 - Acute Toxicity Oral, Category 2

Aquatic Longterm 1 - Aquatic Hazard Long term, Category 1

H300 - Fatal if swallowed.

H400 - Very toxic to aquatic life.

H410 - Very toxic to aquatic life with long lasting effects.

Abbreviations and Acronyms

ACGIH - American Conference of Governmental Industrial Hygienists

ADR - European Agreement Concerning The International Carriage Of Dangerous Goods By Road CERCLA - The Comprehensive Environmental Response, Compensation, and Liability Act

CLP - Classification, Labeling and Packaging

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DFGMAK - Republic Germany's maximum exposure limit

GHS - Globally Harmonized System

HCS - Hazard Communication Standard

IARC - International Agency for Research on Cancer

IATA - International Air Transport Association

ICAO - International Civil Aviation Organization

IMDG - International Maritime Dangerous Goods

IOELVs - European Unions' Indicative Occupational Exposure Limit Values

NIOSH - National Institute for Occupational Safety and Health

NTP - National Toxicology Program

OSHA - Occupational Safety and Health Administration

PBT - Persistent bioaccumulative and toxic substances

SARA - Superfund Amendments and Reauthorization Act

TDG - Canadian Transportation Of Dangerous Goods Regulations.

UN GHS - United Nations Globally Harmonized System

US DOT - United States Department of Transportation

WHMIS - Workplace Hazardous Material Information System

vPvB - Very persistent and very bioaccumulative substances

LC50 - Lethal Concentration, 50%

LD50 - Lethal Dose, 50%

For further information, please contact your local DIAsource ImmunoAssays representative.

Notification:

Printing date

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English is acceptable for our MSDS as the following conditions are met:

• Medical specialists (users) are well educated in the English language

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