





MATERIAL SAFETY DATA SHEET

According to EC Directive 1907/2006/EC [REACH] and to Regulation (EC) No 1272/2008 [CLP]

KIT

Date of Issue: 28-02-2008Updated: 17-10-20231. Identification of the substance/preparation and of the company1.1 Product identifier:Product name:Anti-hTg [I-125] RIA KITProduct code:RK-8CTKit components:Tracer

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

Application of the substance/preparation: For In-vitro research test KIT **1.3 Details of the supplier of the safety data sheet**

Manufacturer/Supplier:

IZETOP

www.izotop.hu

immuno@izotop.hu

Calibrators Control sera

Institute of Isotopes Co., Ltd. Konkoly-Thege Miklós út 29-33 H-1121 Budapest, Hungary Phone number: (36-1) 391-0826 Fax number: (36-1) 392-2575, 395-9247

Further information available from: Email address of the competent person:

1.4 Emergency telephone number Information in case of emergency:

Health Toxicological Information Service +36 80 201 199 (0-24 hours, toll free - only from Hungary) +36 1 476 6464 (0-24 hours, also from abroad)







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	ΙΑΤΑ	IMDG	US DOT	European ADR	Canadian TDG
14.1 UN/ID number	2910	2910	2910	2910	2910
14.2 UN proper					
shipping name	Radioacti	ve Material, exce	epted package-li	mited quantity o	f material
14.3 Transport	7 Radioactive	7 Radioactive	7 Radioactive	7 Radioactive	7 Radioactive
hazardclass(es)	Material	Material	Material	Material	Material
Subsidiary risk	None	None	None	None	None
Classification code	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4 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
14.5 Environmental					
hazards					
Marine pollutant	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.6 Special					
precautions for user	No special precautions for users are required.				







MATERIAL SAFETY DATA SHEET

According to EC Directive 1907/2006/EC [REACH] and to Regulation (EC) No 1272/2008 [CLP]

Tracer

1. Identification of the substance/preparation and of the company

1.1 Product identifier:Product name:TracerProduct code:Component of RK-8CTProduct formal name:Diagnostic reagent1.2 Relevant identified uses of the substance or mixture and uses advised againstProduct useApplication of the substance/preparation:For In-vitro diagnostic test1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

IZ TOP

Institute of Isotopes Co., Ltd. Konkoly-Thege Miklós út 29-33 H-1121 Budapest, Hungary Phone number: (36-1) 391-0826 Fax number: (36-1) 392-2575, 395-9247

Further information available from: Email address of the competent person: 1.4 Emergency telephone number Information in case of emergency: <u>www.izotop.hu</u> immuno@izotop.hu

Health Toxicological Information Service +36 80 201 199 (0-24 hours, toll free - only from Hungary) +36 1 476 6464 (0-24 hours, also from abroad)

2. Hazards identification:

2.1 Classification of the substance or mixture
Product description: In vitro diagnostic reagent; Red, Clear, Liquid, Odorless
Classification according to Regulation (EC) No 1272/2008 [CLP]
Not classified as hazardous per EC 1272/2008 [CLP].
2.2 Label elements
Labelling according to Regulation (EC) No 1272/2008 [CLP]
Not classified as hazardous per EC 1272/2008 [CLP].



2.3 Other hazards Additional information: Results of PBT and vPvB assessment: PBT: Not applicable. vPvB: Not applicable.







<u>Sodium azide</u>: This product contains concentrations of sodium 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.

Biologically derived materials: This component contains animal biologically derived materials and should be considered as potentially capable of transmitting infectious diseases.

Radioactive component - Iodine 125: Iodine-125 is a gamma-rays and X-rays emitter. Radiation can be protected by 1mm of lead. Half-life: 60.2 days.

See Section 11 Toxicological Information for more detailed health information.

3. Composition / Information on ingredients:

3.2 Mixtures

Hazardous ingredient(s):

	igreulenus).				
International	CAS #		EC no		
chemical					
identification					
Sodium azide	26628-22-8		247-852-1		
	Classification		Labelling		
	Hazard class and Category Code(s)	Hazard statement Code(s)	Supplementary hazard statement Code(s)	Pictogram(s), signal word Code(s)	
	Acute tox. 2	H300	EUH 032	GHS05	
	Aquatic Acute 1	H400		GHS06	
(< 0.1 % by wt)	Aquatic Chronic 1	H410		GHS09 Dgr	
	Signal words		Pictogram(s)		
	Danger			¥2	Left
			Skull and crossbones	Environment	Corrosive to metals







Hazard statements:	
H300	Fatal if swallowed
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life
EUH032	Contact with acids liberates very toxic gas
Precautionary statem	ients:
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face
	protection.
P301 + P310 + P330	If swallowed immediately called a POISON CENTER or
	doctor/physician. Rinse mouth.
P302 + P352 + P310	If on skin gently wash with plenty of soap and water. Immediately
	called a POISON CENTER or doctor/physician.
P391	Collect spillage.
P501	Dispose of contents/container as waste: in an approved waste.

4. First Aid:

www.izotop.hu izotop@izotop.hu

4.1 Description of first aid measures

After inhalation:	Remove victim to fresh air. If breath laboured, administer oxygen as
	needed. If victim is not breathing, administer artificial respiration or
	CPR.
After eye contact:	If product enters eyes, wash eyes gently under running water for 15
	minutes or longer, making sure that the eyelids are held open.
	Immediately call in ophthalmologist. Remove contact lenses.
After 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.
After swallowing:	After swallowing: immediately make victim drink water (two glasses
	at most). Consult a physician.
General information:	If ingested, or in case of feeling unwell, seek medical advice urgently.

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 data available

5. Fire extinguishing 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

Special fire and explosion hazards: No special hazards determined. **Hazardous combustion products:** No combustion products posing significant hazards are

5.3 Advice for firefighters:

expected from this product (an aqueous solution). Protective equipment Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.

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 a material of animal origin. Observe general safety guidelines for protection during clean up procedures.

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

6.2 Environmental Precautions

Contain spill to prevent migration. Place absorbed material in container suitable for disposal. Do not allow the undiluted product to enter sewers/surface or ground water. Dispose of all waste material in accordance with local and facility guidelines.

6.3 Methods and material for containment and cleaning-up

Spill and Leak Procedures: Absorb liquid and place in container suitable for disposal. Avoid generation of aerosols during clean up. Comply with applicable waste disposal regulations. Radioactive material is subject to the regulations of each country.

Dispose of all waste material in accordance with local guidelines.

6.4 Reference to other sections

Refer sections 8 and 13.

7. Handling and storage:

- **7.1 Precautions for safe handling:** Wear suitable personal protective equipment. Avoid splashing. Use the reagent in accordance with relevant package insert. Avoid high temperature and freezing. Do not eat, drink, smoke or apply cosmetics in laboratory areas.
- **7.2 Conditions for safe storage, including any incompatibilities:** Store product in accordance with the relevant package insert. Do not store together with ignitable and flammable substances.
- 7.3 Specific end uses: No further relevant information available.







8. Exposure controls/personal protection:

8.1 Control parameters:

Sodium Azide (CAS # 26628-22-8)

US OSHA: None established

ACGIH: 0.29 mg/m3 Ceiling (as Sodium azide); 0.11 ppm Ceiling (as Hydrazoic acid vapor) DFG MAK: 0.4 mg/m3 Peak (inhalable fraction); 0.2 mg/m3 TWA MAK (inhalable fraction) Ireland: 0.1 mg/m3 TWA; 0.3 mg/m3 STEL; Potential for cutaneous absorption IOELVs: Possibility of significant uptake through the skin; 0.1 mg/m3 TWA; 0.3 mg/m3 STEL NIOSH: None established

Japan: None established

8.2	Exposure	e controls
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Engineering Controls	Place vial behind a metal shield, away from the user.
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. 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 Information on basic physical and chemical properties

Physical state	liquid	Transparency	clear
Colour	red	Decomposition Temperature	not applicable
Odour	odourless	рН	7.3 – 7.5
Freezing point	0 °C	Kinematic viscosity	not determined
Boiling point	100 °C	Solubility in water	complete
Flammability	not applicable	Solubility in organic	not determined
Lower and upper explosion limit	not applicable	Partition coefficient n-octanol/water (log value)	not applicable
Flash Point	not applicable	Vapour pressure	not applicable
Autoignition Temp.	not applicable	Density and/or relative density	1.00 @20°C

9.2 Other information:

No further relevant information available.

10. Stability and reactivity:

10.1 Reactivity:	Sodium azide: Contact with acids liberates very toxic		
	gas.		
10.2 Chemical Stability:	The product is stable in accordance with recommended		
	storage conditions.		
10.3 Possibility of hazardous rea	ctions: 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. Do not allow the undiluted product to enter sewers/surface or ground water.		
10.4 Conditions to avoid:	Avoid contact with incompatible materials. Avoid exposure to heat and direct sunlight.		
10.5 Incompatible materials:	Strong oxidizing agents, Strong acids, Aluminum, Heavy metals		
10.6 Hazardous decomposition pr	products: No decomposition products posing significant		
	hazards would be expected from this product (an aqueous solution).		







11.Toxicological information:

11.1 Information on hazard classes

Toxicity data for hazardous ingredients - Sodium azide (CAS # 26628-22-8): Acute toxicity:

LD50 Oral - Rat - 27 mg/kg Remarks: (RTECS)

LC50 Inhalation - Rat - male and female - 4 h - 0,054 - 0,52 mg/l - dust/mist

(US-EPA) LD50 Dermal - Rabbit - 20 mg/kg Remarks: (RTECS)

Skin corrosion/irritation:

Skin - In vitro study Result: No skin irritation (OECD Test Guideline 439) Serious eye damage/eye irritation:

Eyes - Bovine cornea Result: No eye irritation - 4 h (OECD Test Guideline 437) **Respiratory or skin sensitization**:

Local lymph node assay (LLNA) – Mouse Result: negative (OECD Test Guideline 429)

Germ cell mutagenicity:

Test Type: Mutagenicity (mammal cell test): chromosome aberration. Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activationMethod: OECD Test Guideline 473 Result: negative

Test Type: unscheduled DNA synthesis assay. Test system: Chinese hamster lung cells Metabolic activation: without metabolic activation Method: OECD Test Guideline 482 Result: negative

Test Type: sister chromatid exchange assay Test system: Chinese hamster ovary cells Metabolic activation: without metabolic activation Method: OECD Test Guideline 479 Result: negative

Carcinogenicity: No data available

Reproductive toxicity: No data available

Specific target organ toxicity - single exposure: No data available

Specific target organ toxicity - repeated exposure:

Oral - May cause damage to organs through prolonged or repeated exposure – Brain **Aspiration hazard**: No data available

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.

11.2 Information on other hazards

Endocrine disrupting properties:

Sodium azide (CAS # 26628-22-8):

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Other information:

This product contains materials of human and animal origin and should be considered as potentially capable of transmitting infectious diseases.







12. Ecological information:

Ecotoxical effects: Sodium Azide is toxic for aquatic organisms.

12.1 Toxicity

Sodium azide (CAS # 26628-22-8):

Toxicity to fish: flow-through test LC50 - Oncorhynchus mykiss (rainbow trout) - 2,75 mg/l - 96 h (OECD Test Guideline 203) Toxicity to algae: static test ErC50 - Pseudokirchneriella subcapitata - 0,35 mg/l - 96 h (OECD Test Guideline 201)

12.2 Persistence and degradability Sodium azide (CAS # 26628-22-8):

The methods for determining the biological degradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties:

This product does not have substance(s) of endocrine disrupting properties for environment according to REACH Article 57(f).

12.7 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 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:

	1		0		
Shipping information	ΙΑΤΑ	IMDG	US DOT	European ADR	Canadian TDG
14.1 UN/ID number	2910	2910	2910	2910	2910
14.2 UN proper					
shipping name	Radioactiv	e Material, exce	epted package-li	mited quantity o	of material
14.3 Transport	7 Radioactive	7 Radioactive	7 Radioactive	7 Radioactive	7 Radioactive
hazardclass(es)	Material	Material	Material	Material	Material
Subsidiary risk	None	None	None	None	None
Classification code	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4 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
14.5 Environmental					
hazards					
Marine pollutant	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.6 Special					
precautions for user	No special precautions for users are required.				







15. Regulatory information:

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

mixture

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

Labelling according to EU guidelines:The product has been classified and marked in
accordance with EU Directives / Ordinance on
Hazardous Materials. Harmonised classification
- Annex VI of Regulation (EC) No 1272/2008
(CLP Regulation)

Hazard-determining components of labelling: * <u>NaN3</u>

* But as mentioned in the REGULATION (EC) No 1272/2008 under point 1.5(a) there is no hazard labelling necessary as the total volume of the components of the KIT is under 125 ml.

Other information: Radioactive material in accordance with "A.R. of 28/02/1963 art. 31" and following, relating to the protection of the population and workers against the danger of ionising radiations.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

16. Other information:

Izotop safety	rating: Flammability: 0	Code
	Health: 1	0=None
	Reactivity with	1=Slight
	water: 0	2=Caution
	Physical contact: 1	3=Severe

Revision changes: Revised to include EC 2020/878 amendment to REACH EC 1907/2006 **Document version and issue/revision date:** Revision Date (year/month/day) 2023/10/17 **Description of hazard class and hazard statements 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 Inter. Carriage Of Dangerous Goods By Road CLP - Classification, Labeling and Packaging GHS - Globally Harmonized System 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 OSHA - Occupational Safety and Health Administration PBT - Persistent bioaccumulative and toxic substances TDG - Canadian Transportation Of Dangerous Goods Regulations. US DOT - United States Department of Transportation vPvB - Very persistent and very bioaccumulative substances LC50 - Lethal Concentration, 50% LD50 - Lethal Dose, 50%

Information and recommendations:

- All animal products and derivatives are collected in healthy animals without any disease.
- The BSA (Bovine Serum Albumin) originates from countries where BSE (Bovine Spongiform Encephalopathy) as not been reported.
- The information herein is believed to be correct as of the date hereof but is provided without warranty of any kind. The recipient of our products is responsible for observing any laws and guidelines.
- For in vitro diagnostics only.
- This radioactive product can be transferred to and used only by authorised persons; purchase, storage, use and exchange of radioactive products are subject to the legislation of the end-user's country.
- In no case the product must be administered to humans or animals.
- Do not smoke, drink, eat or apply cosmetics in the working area.
- Do not pipette by mouth.
- Use protective clothing and disposable gloves.
- All radioactive handling should be executed in a designated area, away from regular passage.
- A logbook for receipt and storage of radioactive materials must be kept in the lab.
- Laboratory equipment and glassware, which could be contaminated with radioactive substances, should be segregated to prevent cross contamination of different radioisotopes.
- Any radioactive spills must be cleaned immediately in accordance with the radio safety procedures.
- The radioactive waste must be disposed of following the local regulations and guidelines of the notified bodies holding jurisdiction over the laboratory.
- Adherence to the basic rules of the radiation safety provides adequate protection.







MATERIAL SAFETY DATA SHEET

According to EC Directive 1907/2006/EC [REACH] and to Regulation (EC) No 1272/2008 [CLP]

Calibrators

1. Identification of the substance/preparation and of the company

1.1 Product identifier:Product name:Calibrators 0-5Product code:Components of RK-8CTProduct formal name:Diagnostic reagents1.2 Relevant identified uses of the substance or mixture and uses advised againstProduct useApplication of the substance/preparation:For In-vitro diagnostic test1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

sheet

IZSTOP

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Institute of Isotopes Co., Ltd. Konkoly-Thege Miklós út 29-33 H-1121 Budapest, Hungary Phone number: (36-1) 391-0826 Fax number: (36-1) 392-2575, 395-9247

Further information available from: Email address of the competent person:

1.4 Emergency telephone number Information in case of emergency:

Health Toxicological Information Service +36 80 201 199 (0-24 hours, toll free - only from Hungary) +36 1 476 6464 (0-24 hours, also from abroad)

2. Hazards identification:

2.1 Classification of the substance or mixture

Product description: In vitro diagnostic reagents; Yellow, Liquid **Classification according to Regulation (EC) No 1272/2008 [CLP]** Not classified as hazardous per EC 1272/2008 [CLP].

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP] Not classified as hazardous per EC 1272/2008 [CLP].

2.3 Other hazards

Additional information:	Results of PBT and vPvB assessment:
	PBT: Not applicable.
	vPvB: Not applicable.







<u>Sodium azide</u>: This product contains concentrations of sodium 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.

Biologically derived materials: This product contains human biologically derived materials and should be considered as potentially capable of transmitting infectious diseases.

See Section 11 Toxicological Information for more detailed health information.

3. Composition / Information on ingredients:

3.2 Mixtures

Hazardous ingredient(s):

	igrealent(s):				
International	CAS #		EC no		
chemical					
identification					
Sodium azide	26628-22-8		247-852-1		
	Classification		Labelling		
	Hazard class and Category Code(s)	Hazard statement Code(s)	Supplementary hazard statement Code(s)	Pictogram(s), signal word Code(s)	
	Acute tox. 2	H300	EUH 032	GHS05	
	Aquatic Acute 1	H400		GHS06	
(< 0.1 % by wt)	Aquatic Chronic 1	H410		GHS09 Dgr	
	Signal words		Pictogram(s)		
	Danger		Skull and	¥2	Corrosive to
			crossbones	Environment	metals



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Hazard statements:	
H300	Fatal if swallowed
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life
EUH032	Contact with acids liberates very toxic gas
Precautionary staten	nents:
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P310 + P330	If swallowed immediately called a POISON CENTER or doctor/physician. Rinse mouth.
P302 + P352 + P310	If on skin gently wash with plenty of soap and water. Immediately called a POISON CENTER or doctor/physician.
P391	Collect spillage.
P501	Dispose of contents/container as waste: in an approved waste.

4. First Aid:

4.1 Description of first aid measures

After inhalation:	Remove victim to fresh air. If breath laboured, administer oxygen as needed. If victim is not breathing, administer artificial respiration or CPR.
After eye contact:	If product enters eyes, wash eyes gently under running water for 15 minutes or longer, making sure that the eyelids are held open. Immediately call in ophthalmologist. Remove contact lenses.
After 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.
After swallowing:	After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.
General information:	If ingested, or in case of feeling unwell, seek medical advice urgently.

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 data available







5. Fire extinguishing 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

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 firefighters: Protective equipment Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.
 5.4 Additional information: No further relevant information available.

3.4 Additional million mation. Two further relevant information av

6. Accidental release measures:

6.1 Personal precaution, protective equipment and emergency procedures

Personal Precautions: This product contains a material of human origin. Observe general safety guidelines for protection during clean up procedures.

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

6.2 Environmental Precautions

Contain spill to prevent migration. Place absorbed material in container suitable for disposal. Do not allow the undiluted product to enter sewers/surface or ground water. Dispose of all waste material in accordance with local and facility guidelines.

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. Dispose of all waste material in accordance with local guidelines.

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. Wear suitable personal protective equipment. Avoid splashing. Use the reagent in accordance with relevant package insert. Avoid high temperature and freezing. Do not eat, drink, smoke or apply cosmetics in laboratory areas.
- **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:

Sodium Azide (CAS # 26628-22-8)

US OSHA: None established

ACGIH: 0.29 mg/m3 Ceiling (as Sodium azide); 0.11 ppm Ceiling (as Hydrazoic acid vapor) DFG MAK: 0.4 mg/m3 Peak (inhalable fraction); 0.2 mg/m3 TWA MAK (inhalable fraction) Ireland: 0.1 mg/m3 TWA; 0.3 mg/m3 STEL; Potential for cutaneous absorption IOELVs: Possibility of significant uptake through the skin; 0.1 mg/m3 TWA; 0.3 mg/m3 STEL 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.

8.2 Exposure controls







9. Physical and chemical properties:

9.1 Information on basic physical and chemical properties

Physical state	liquid	Transparency	clear
Colour	yellow	Decomposition Temperature	not applicable
Odour	modest	рН	6.0 - 8.0
Freezing point	0 °C	Kinematic viscosity	not determined
Boiling point	100 °C	Solubility in water	complete
Flammability	not applicable	Solubility in organic	not determined
Lower and upper explosion limit	not applicable	Partition coefficient n-octanol/water (log value)	not applicable
Flash Point	not applicable	Vapour pressure	not applicable
Autoignition Temp.	not applicable	Density and/or relative density	1.00 @20°C

9.2 Other information:

No further relevant information available.

10. Stability and reactivity:

10.1 Reactivity:	Sodium azide: Contact with acids liberates very toxic
	gas.
10.2 Chemical Stability:	This product is stable in accordance with recommended
	storage conditions.
10.3 Possibility of hazardous rea	ctions: 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. Do not allow the undiluted product to enter
	sewers/surface or ground water.
10.4 Conditions to avoid:	Avoid contact with incompatible materials. Avoid
	exposure to heat and direct sunlight.
10.5 Incompatible materials:	Strong oxidizing agents, Strong acids, Metals and
	metallic compounds.
10.6 Hazardous decomposition pr	oducts: No decomposition products posing significant
	hazards would be expected from these product
	(aqueous solutions).







11.Toxicological information:

11.1 Information on hazard classes

Toxicity data for hazardous ingredients - Sodium azide (CAS # 26628-22-8):

Acute toxicity:

LD50 Oral - Rat - 27 mg/kg Remarks: (RTECS) LC50 Inhalation - Rat - male and female - 4 h - 0,054 - 0,52 mg/l - dust/mist (US-EPA) LD50 Dermal - Rabbit - 20 mg/kg Remarks: (RTECS)

Skin corrosion/irritation:

Skin - In vitro study Result: No skin irritation (OECD Test Guideline 439)

Serious eye damage/eye irritation:

Eyes - Bovine cornea Result: No eye irritation - 4 h (OECD Test Guideline 437)

Respiratory or skin sensitization:

Local lymph node assay (LLNA) – Mouse Result: negative (OECD Test Guideline 429)

Germ cell mutagenicity

Test Type: Mutagenicity (mammal cell test): chromosome aberration. Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activationMethod: OECD Test Guideline 473 Result: negative

Test Type: unscheduled DNA synthesis assay. Test system: Chinese hamster lung cells Metabolic activation: without metabolic activation Method: OECD Test Guideline 482 Result: negative

Test Type: sister chromatid exchange assay Test system: Chinese hamster ovary cells Metabolic activation: without metabolic activation Method: OECD Test Guideline 479 Result: negative

Carcinogenicity: No data available

Reproductive toxicity: No data available

Specific target organ toxicity - single exposure: No data available

<u>Specific target organ toxicity - repeated exposure</u>: Oral - May cause damage to organs through prolonged or repeated exposure – Brain

Aspiration hazard: No data available

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.







11.2 Information on other hazards Endocrine disrupting properties:

This product does not have substance(s) of endocrine disrupting properties for health according to REACH Article 57(f).

Other information:

This product contains materials of human origin and should be considered as potentially capable of transmitting infectious diseases.

12. Ecological information:

Ecotoxical effects: Sodium Azide (CAS # 26628-22-8) is toxic for aquatic organisms.

12.1 Toxicity

Toxicity to fish: flow-through test LC50 - Oncorhynchus mykiss (rainbow trout) - 2,75 mg/l - 96 h (OECD Test Guideline 203)

Toxicity to algae: static test ErC50 - Pseudokirchneriella subcapitata - 0,35 mg/l - 96 h (OECD Test Guideline 201)

12.2 Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties:

This product does not have substance(s) of endocrine disrupting properties for environment according to REACH Article 57(f).

12.7 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 07 - chemicals other than those mentioned in 18 01 06. Dispose in accordance with national, state and local waste regulations.

14.Transport information:

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

14.1 UN/ID number: Not regulated for transportation

14.2 UN proper shipping name: Not regulated for transportation

14.3 Transport hazard class(es): Not regulated for transportation

14.4 Packing group: Not regulated for transportation

14.5 Environmental hazards: Not regulated for transportation

- 14.6 Special precautions for user: None
- 14.7 Maritime transport in bulk according to IMO instruments: Not applicable







15. Regulatory information:

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

mixture

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

Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials. Harmonised classification - Annex VI of Regulation (EC) No 1272/2008 (CLP Regulation)

Hazard-determining components of labelling: * <u>NaN3</u>

* But as mentioned in the REGULATION (EC) No 1272/2008 under point 1.5(a) there is no hazard labelling necessary as the total volume of the components of the KIT is under 125 ml.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

16. Other information:

Izotop safety rati	ng: Flammability: 0	Code
	Health: 1	0=None
	Reactivity with	1=Slight
	water: 0	2=Caution
	Physical contact: 1	3=Severe

Revision changes: Revised to include EC 2020/878 amendment to REACH EC 1907/2006 **Document version and issue/revision date:** Revision Date (year/month/day) 2023/10/17 **Description of hazard class and hazard statements 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 CLP - Classification, Labeling and Packaging GHS - Globally Harmonized System 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 OSHA - Occupational Safety and Health Administration PBT - Persistent bioaccumulative and toxic substances TDG - Canadian Transportation Of Dangerous Goods Regulations. US DOT - United States Department of Transportation vPvB - Very persistent and very bioaccumulative substances LC50 - Lethal Concentration, 50% LD50 - Lethal Dose, 50%







MATERIAL SAFETY DATA SHEET

According to EC Directive 1907/2006/EC [REACH] and to Regulation (EC) No 1272/2008 [CLP]

Control sera

1. Identification of the substance/preparation and of the company

1.1 Product identifier:Product name:Control sera (CI, CII)Product code:Components of RK-8CTProduct formal name:Diagnostic reagents1.2 Relevant identified uses of the substance or mixture and uses advised againstProduct useApplication of the substance/preparation:For In-vitro diagnostic test1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

IZ STOP

www.izotop.hu

immuno@izotop.hu

Institute of Isotopes Co., Ltd. Konkoly-Thege Miklós út 29-33 H-1121 Budapest, Hungary Phone number: (36-1) 391-0826 Fax number: (36-1) 392-2575, 395-9247

Further information available from: Email address of the competent person:

1.4 Emergency telephone number Information in case of emergency:

Health Toxicological Information Service +36 80 201 199 (0-24 hours, toll free - only from Hungary) +36 1 476 6464 (0-24 hours, also from abroad)

2. Hazards identification:

2.1 Classification of the substance or mixture Product description: In vitro diagnostic reagents; Yellow, Liquid Classification according to Regulation (EC) No 1272/2008 [CLP] Not classified as hazardous per EC 1272/2008 [CLP].

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP] Not classified as hazardous per EC 1272/2008 [CLP].

2.3 Other hazards

Additional information:Results of PBT and vPvB assessment:
PBT: Not applicable.
vPvB: Not applicable.







<u>Sodium azide</u>: This product contains concentrations of sodium 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.

Biologically derived materials: This product contains human biologically derived materials and should be considered as potentially capable of transmitting infectious diseases.

See Section 11 Toxicological Information for more detailed health information.

3. Composition / Information on ingredients:

3.2 Mixtures

	igredient(s):		1		
International chemical identification	CAS #		EC no		
Sodium azide	26628-22-8		247-852-1		
	Classification		Labelling		
	Hazard class and Category Code(s)	Hazard statement Code(s)	Supplementary hazard statement Code(s)	Pictogram(s), signal word Code(s)	
	Acute tox. 2	H300	EUH 032	GHS05	
	Aquatic Acute 1	H400		GHS06	
(< 0.1 % by wt)	Aquatic Chronic 1	H410		GHS09 Dgr	
	Signal words		Pictogram(s)	•	•
	Danger		Skull and crossbones	Environment	Corrosive to metals

Hazardous ingredient(s):



www.izotop.hu izotop@izotop.hu





Hazard statements:	
H300	Fatal if swallowed
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life
EUH032	Contact with acids liberates very toxic gas
Precautionary staten	nents:
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face
P301 + P310 + P330	protection. If swallowed immediately called a POISON CENTER or doctor/physician. Rinse mouth.
P302 + P352 + P310	If on skin gently wash with plenty of soap and water. Immediately called a POISON CENTER or doctor/physician.
P391	Collect spillage.
P501	Dispose of contents/container as waste: in an approved waste.

4. First Aid:

4.1 Description of first aid measures

After inhalation:	Remove victim to fresh air. If breath laboured, administer oxygen as needed. If victim is not breathing, administer artificial respiration or CPR.
After eye contact:	If product enters eyes, wash eyes gently under running water for 15 minutes or longer, making sure that the eyelids are held open. Immediately call in ophthalmologist. Remove contact lenses.
After 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.
After swallowing:	After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.
General information:	If ingested, or in case of feeling unwell, seek medical advice urgently.

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 data available







5. Fire extinguishing 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

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 firefighters: Protective equipment Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.
 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 a material of human origin. Observe general safety guidelines for protection during clean up procedures.

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

6.2 Environmental Precautions

Contain spill to prevent migration. Place absorbed material in container suitable for disposal. Do not allow the undiluted product to enter sewers/surface or ground water. Dispose of all waste material in accordance with local and facility guidelines.

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. Dispose of all waste material in accordance with local guidelines.

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. Wear suitable personal protective equipment. Avoid splashing. Use the reagent in accordance with relevant package insert. Avoid high temperature and freezing. Do not eat, drink, smoke or apply cosmetics in laboratory areas.
- **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:

Sodium Azide (CAS # 26628-22-8)

US OSHA: None established

ACGIH: 0.29 mg/m3 Ceiling (as Sodium azide); 0.11 ppm Ceiling (as Hydrazoic acid vapor) DFG MAK: 0.4 mg/m3 Peak (inhalable fraction); 0.2 mg/m3 TWA MAK (inhalable fraction) Ireland: 0.1 mg/m3 TWA; 0.3 mg/m3 STEL; Potential for cutaneous absorption IOELVs: Possibility of significant uptake through the skin; 0.1 mg/m3 TWA; 0.3 mg/m3 STEL 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.

8.2 Exposure controls







9. Physical and chemical properties:

9.1 Information on basic physical and chemical properties

Physical state	liquid	Transparency	clear
Colour	yellow	Decomposition Temperature	not applicable
Odour	modest	рН	6.0 - 8.0
Freezing point	0 °C	Kinematic viscosity	not determined
Boiling point	100 °C	Solubility in water	complete
Flammability	not applicable	Solubility in organic	not determined
Lower and upper explosion limit	not applicable	Partition coefficient n-octanol/water (log value)	not applicable
Flash Point	not applicable	Vapour pressure	not applicable
Autoignition Temp.	not applicable	Density and/or relative density	1.00 @20°C

9.2 Other information:

No further relevant information available.

10. Stability and reactivity:

10.1 Reactivity:	Sodium azide: Contact with acids liberates very toxic
	gas.
10.2 Chemical Stability:	This product is stable in accordance with recommended
	storage conditions.
10.3 Possibility of hazardous rea	ctions: 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. Do not allow the undiluted product to enter
	sewers/surface or ground water.
10.4 Conditions to avoid:	Avoid contact with incompatible materials. Avoid
	exposure to heat and direct sunlight.
10.5 Incompatible materials:	Strong oxidizing agents, Strong acids, Metals and
	metallic compounds.
10.6 Hazardous decomposition pr	oducts: No decomposition products posing significant
	hazards would be expected from these product
	(aqueous solutions).







11.Toxicological information:

11.1 Information on hazard classes

Toxicity data for hazardous ingredients - Sodium azide (CAS # 26628-22-8):

Acute toxicity:

LD50 Oral - Rat - 27 mg/kg Remarks: (RTECS) LC50 Inhalation - Rat - male and female - 4 h - 0,054 - 0,52 mg/l - dust/mist (US-EPA) LD50 Dermal - Rabbit - 20 mg/kg Remarks: (RTECS)

Skin corrosion/irritation:

Skin - In vitro study Result: No skin irritation (OECD Test Guideline 439)

Serious eye damage/eye irritation:

Eyes - Bovine cornea Result: No eye irritation - 4 h (OECD Test Guideline 437)

Respiratory or skin sensitization:

Local lymph node assay (LLNA) – Mouse Result: negative (OECD Test Guideline 429)

Germ cell mutagenicity

Test Type: Mutagenicity (mammal cell test): chromosome aberration. Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activationMethod: OECD Test Guideline 473 Result: negative

Test Type: unscheduled DNA synthesis assay. Test system: Chinese hamster lung cells Metabolic activation: without metabolic activation Method: OECD Test Guideline 482 Result: negative

Test Type: sister chromatid exchange assay Test system: Chinese hamster ovary cells Metabolic activation: without metabolic activation Method: OECD Test Guideline 479 Result: negative

Carcinogenicity: No data available

Reproductive toxicity: No data available

Specific target organ toxicity - single exposure: No data available

<u>Specific target organ toxicity - repeated exposure</u>: Oral - May cause damage to organs through prolonged or repeated exposure – Brain

Aspiration hazard: No data available

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.







11.2 Information on other hazards Endocrine disrupting properties:

This product does not have substance(s) of endocrine disrupting properties for health according to REACH Article 57(f).

Other information:

This product contains materials of human origin and should be considered as potentially capable of transmitting infectious diseases.

12. Ecological information:

Ecotoxical effects: Sodium Azide (CAS # 26628-22-8) is toxic for aquatic organisms.

12.1 Toxicity

Toxicity to fish: flow-through test LC50 - Oncorhynchus mykiss (rainbow trout) - 2,75 mg/l - 96 h (OECD Test Guideline 203)

Toxicity to algae: static test ErC50 - Pseudokirchneriella subcapitata - 0,35 mg/l - 96 h (OECD Test Guideline 201)

12.2 Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties:

This product does not have substance(s) of endocrine disrupting properties for environment according to REACH Article 57(f).

12.7 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 07 - chemicals other than those mentioned in 18 01 06. Dispose in accordance with national, state and local waste regulations.

14.Transport information:

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

14.1 UN/ID number: Not regulated for transportation

14.2 UN proper shipping name: Not regulated for transportation

14.3 Transport hazard class(es): Not regulated for transportation

14.4 Packing group: Not regulated for transportation

14.5 Environmental hazards: Not regulated for transportation

- 14.6 Special precautions for user: None
- 14.7 Maritime transport in bulk according to IMO instruments: Not applicable







15. Regulatory information:

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

mixture

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

Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials. Harmonised classification - Annex VI of Regulation (EC) No 1272/2008 (CLP Regulation)

Hazard-determining components of labelling: * <u>NaN3</u>

* But as mentioned in the REGULATION (EC) No 1272/2008 under point 1.5(a) there is no hazard labelling necessary as the total volume of the components of the KIT is under 125 ml.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

16. Other information:

Izotop safety rating: Flammability: 0		Code
	Health: 1	0=None
	Reactivity with	1=Slight
	water: 0	2=Caution
	Physical contact: 1	3=Severe

Revision changes: Revised to include EC 2020/878 amendment to REACH EC 1907/2006 **Document version and issue/revision date:** Revision Date (year/month/day) 2023/10/17 **Description of hazard class and hazard statements 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 CLP - Classification, Labeling and Packaging GHS - Globally Harmonized System 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 OSHA - Occupational Safety and Health Administration PBT - Persistent bioaccumulative and toxic substances TDG - Canadian Transportation Of Dangerous Goods Regulations. US DOT - United States Department of Transportation vPvB - Very persistent and very bioaccumulative substances LC50 - Lethal Concentration, 50% LD50 - Lethal Dose, 50%