

SAFETY DATA SHEET



Piccolo Reagent Rotor

Section 1. Identification

GHS product identifier : Piccolo Reagent Rotor

Other means of identification : AmLyte 13 Panel
Basic Metabolic Panel
Basic Metabolic Panel Plus
Biochemistry Panel Plus
Comprehensive Metabolic Panel (CMP)
Electrolyte Panel
General Chemistry 13
General Chemistry 6
Hepatic Panel
Kidney Check
Lipid Panel
Lipid Panel Plus
Liver Panel Plus
MetLac 12 Panel
MetLyte 8 Panel
MetLyte Plus CRP
PICCOLO® EI Basic Metabolic Panel
PICCOLO® EI Comprehensive Metabolic Panel
PICCOLO® EI Electrolyte Panel
PICCOLO® EI General Chemistry 13
PICCOLO® EI General Chemistry 6
PICCOLO® EI Kidney Check
PICCOLO® EI Lipid Panel
PICCOLO® EI Lipid Panel Plus
PICCOLO® EI Liver Panel Plus
Renal Panel
Transaminase CK

Product type : Solid.

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

Identified uses

Diagnostic agents.

Uses advised against

For use by healthcare provider only

Supplier's details : Abaxis, Inc.
3240 Whipple Road, Union City, CA 94587
+1-510-675-6500
+1-800-822-2947 (AB-PiccoloTechSupport@zoetis.com)

Emergency telephone number (with hours of operation) : CHEMTREC (24 hours): 1-800-424-9300
International CHEMTREC (24 hours): +1-703-527-3887

Company Name (EU): Zoetis Belgium S.A.
Rue Laid Burniat 1
1348 Louvain-la-Neuve
Belgium
Telephone: +32 10 808080

Rocky Mountain Poison and Drug Center: 1-866-531-8896
Product Support/Technical Services: 1-888-963-8471

Section 1. Identification

Contact E-Mail: VMIPSrecords@zoetis.com

Section 2. Hazards identification

OSHA/HCS status	: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture	: Not classified.
<u>GHS label elements</u>	
Signal word	: No signal word.
Hazard statements	: No known significant effects or critical hazards.
<u>Precautionary statements</u>	
Prevention	: Observe good industrial hygiene practices.
Response	: Wash hands after handling.
Storage	: Store away from incompatible materials.
Disposal	: Dispose of waste product or used containers according to local regulations.
Supplemental label elements	: Plastic article: To avoid risks to human health and the environment, comply with the instructions for use. With sample collection: Handle as potentially infectious.
Hazards not otherwise classified	: Plastic article: To avoid risks to human health and the environment, comply with the instructions for use. With sample collection: Handle as potentially infectious.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	Identifiers
Freeze-dried reagent beads	*	-
Sulfuric acid copper(2+) salt (1:1), hydrate (1:5)	≤0.3	CAS: 7758-99-8
Octoxynol	≤0.3	CAS: 9002-93-1
sodium azide	≤0.3	CAS: 26628-22-8

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	: Not likely, due to the form of the product. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Section 4. First aid measures

Most important symptoms/effects, acute and delayed

Not likely, due to the form of the product.

Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. Handle as potentially infectious.

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : No specific fire or explosion hazard.

Hazardous thermal decomposition products : No specific data.

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : Keep unnecessary personnel away.

For emergency responders : Keep unnecessary personnel away. If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". Handle as if containing infectious material.

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill : Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill : Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Handle as potentially infectious.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Store between the following temperatures: 2 to 8°C (35.6 to 46.4°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Sulfuric acid copper(2+) salt (1:1), hydrate (1:5)	CAL OSHA PEL (United States, 5/2018) [copper salts] TWA 8 hours: 1 mg/m ³ (as Cu). Form: dust and mist. ACGIH TLV (United States, 1/2024) [copper dusts and mists] TWA 8 hours: 1 mg/m ³ (as Cu). Form: Dust and mist.
sodium azide	NIOSH REL (United States, 10/2020) Absorbed through skin. CEIL: 0.1 ppm (as HN ₃). CEIL: 0.3 mg/m ³ (NaN ₃). CAL OSHA PEL (United States, 5/2018) Absorbed through skin. C: 0.3 mg/m ³ . C: 0.1 ppm. OSHA PEL 1989 (United States, 3/1989) [Sodium azide (as HN₃)] Absorbed through skin. CEIL: 0.1 ppm (as HN ₃). OSHA PEL 1989 (United States, 3/1989) [Sodium azide (as NaN₃)] Absorbed through skin. CEIL: 0.3 mg/m ³ (as NaN ₃). ACGIH TLV (United States, 1/2024) A4. C: 0.29 mg/m ³ (as Sodium azide). C: 0.11 ppm (as Hydrazoic acid vapor).

Biological exposure indices

No exposure indices known.

Control Banding Approach

Not available.

Section 8. Exposure controls/personal protection

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls : Environmental manager must be informed of all major releases.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing.

Eye/face protection : If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection : Wear appropriate chemical resistant gloves.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.

Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state : Solid. [Plastics.]

Color : Clear.

Odor : Odorless.

Odor threshold : Not available.

pH : Not available.

Melting point/freezing point : Not available.

Boiling point or initial boiling point and boiling range : Not available.

Flash point : Not applicable.

Evaporation rate : Not available.

Flammability : Not available.

Lower and upper explosion limit/flammability limit : Not applicable.

Vapor pressure : Not available.

Relative vapor density : Not applicable.

Relative density : Not available.

Solubility in water : Not available.

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

Auto-ignition temperature : Not applicable.

Decomposition temperature : Not available.

Viscosity : Dynamic (room temperature): Not available.
Kinematic (room temperature): Not available.
Kinematic (40°C (104°F)): Not available.

Section 9. Physical and chemical properties and safety characteristics

Particle characteristics

Pmax	: Not available.
Maximum rate of pressure rise (dP/dT)	: Not available.
Kst	: Not available.
Min. Ignition Temperature (Dust)	: Not available.
Minimum ignition energy (MIE) - dust cloud	: Not available.
Median particle size	: Not available.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Remarks	: Reactive or incompatible with the following materials: oxidizing materials.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result
Sulfuric acid copper(2+) salt (1:1), hydrate (1:5)	Rat - Dermal - LD50 >2000 mg/kg
	Rat - Oral - LD50 300 mg/kg
	Rat - Oral - LD50 300 mg/kg
Octoxynol	Rat - Oral - LD50 1800 mg/kg
	Rat - Oral - LD50 1800 mg/kg
sodium azide	Rat - Oral - LD50 27 mg/kg
	Rat - Oral - LD50 27 mg/kg
	Rat - Dermal - LD50 50 mg/kg
	Rabbit - Dermal - LD50 20 mg/kg

Conclusion/Summary [Product]	: Expected to be a low hazard for usual industrial or commercial handling by trained personnel.
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Section 11. Toxicological information

Skin corrosion/irritation

Product/ingredient name

Octoxynol

Result

Rabbit - Skin - Mild irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 500 uL

Conclusion/Summary [Product] : Due to partial or complete lack of data the classification is not possible.

Serious eye damage/eye irritation

Product/ingredient name

Octoxynol

Result

Rabbit - Eyes - Moderate irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 10 uL

Conclusion/Summary [Product] : Due to partial or complete lack of data the classification is not possible.

Respiratory corrosion/irritation

Not available.

Conclusion/Summary [Product] : Due to partial or complete lack of data the classification is not possible.

Respiratory or skin sensitization

Not available.

Skin

Conclusion/Summary [Product] : Due to partial or complete lack of data the classification is not possible.

Respiratory

Conclusion/Summary [Product] : Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity (single exposure)

Not applicable.

Specific target organ toxicity (repeated exposure)

Not applicable.

Aspiration hazard

Not applicable.

Information on the likely routes of exposure

Not available.

Potential acute health effects

Not likely, due to the form of the product.

Potential chronic health effects

Section 11. Toxicological information

Not available.

General : Due to partial or complete lack of data the classification is not possible.

Germ cell mutagenicity

Not available.

Conclusion/Summary [Product] : Due to partial or complete lack of data the classification is not possible.

Carcinogenicity

Not available.

Conclusion/Summary [Product] : Due to partial or complete lack of data the classification is not possible.

Reproductive toxicity

Not available.

Conclusion/Summary [Product] : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Sulfuric acid copper(2+) salt (1:1), hydrate (1:5)	300	2500	N/A	N/A	N/A
Octoxynol	1800	N/A	N/A	N/A	N/A
sodium azide	27	20	N/A	N/A	N/A

Other information

Handle as potentially infectious.

Section 12. Ecological information

Toxicity

Product/ingredient name

Sulfuric acid copper(2+) salt (1:1), hydrate (1:5)

Result

Acute - EC50 - Fresh water

US EPA

Daphnia - Water flea - *Daphnia magna*

Age: 1

182 ppb [48 hours]

Effect: Intoxication

Acute - LC50 - Fresh water

US EPA

Fish - Rainbow trout, donaldson trout - *Oncorhynchus mykiss*

Weight: 0.6 g

0.032 ppm [96 hours]

Effect: Mortality

Octoxynol

Acute - LC50 - Fresh water

Fish - Fathead minnow - *Pimephales promelas*

Age: 2 to 3 months; Size: 16 mm; Weight: 0.039 g

Section 12. Ecological information

4500 µg/l [96 hours]

Effect: Mortality**Acute - LC50 - Fresh water**Crustaceans - Water flea - *Ceriodaphnia rigaudi* - NeonateAge: 24 hours

5.85 mg/l [48 hours]

Effect: Mortality**Chronic - NOEC - Fresh water**

OECD

Fish - Eastern mosquitofish - *Gambusia holbrooki*Weight: 0.14 g

0.004 mg/l [28 days]

Effect: Enzymes**Chronic - NOEC - Marine water**Algae - Giant kelp - *Macrocystis pyrifera*

5600 µg/l [96 hours]

Effect: Reproduction**Acute - EC50 - Fresh water**Algae - Green algae - *Raphidocelis subcapitata*

0.348 mg/l [96 hours]

Effect: Population**Acute - EC50 - Fresh water**Daphnia - Water flea - *Daphnia pulex* - LarvaeAge: 1

4.2 mg/l [48 hours]

Effect: Intoxication**Acute - LC50 - Fresh water**Fish - Bluegill - *Lepomis macrochirus*Weight: 0.6 g

0.68 mg/l [96 hours]

Effect: Mortality

sodium azide

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

Mobility in soil**Soil/Water partition coefficient** : Not available.**Other adverse effects**

No known significant effects or critical hazards.

Conclusion/Summary [Product] : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: Handle as potentially infectious. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental releases. This may include destructive techniques for waste and wastewater. The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.

Additional information

DOT Classification

: **Reportable quantity** 10000 lbs / 4540 kg. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

Special precautions for user

: **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to IMO instruments

: Not available.

Section 15. Regulatory information

U.S. Federal regulations

: **TSCA 8(a) PAIR:** Octoxynol

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Clean Water Act (CWA) 307: Sulfuric acid copper(2+) salt (1:1), hydrate (1:5)

Clean Water Act (CWA) 311: Sulfuric acid copper(2+) salt (1:1), hydrate (1:5)

TSCA 12(b) - Chemical export notification

Not applicable.

Section 15. Regulatory information

Clean Air Act Section 112 : Not listed

(b) Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

Name	%	EHS	SARA 302 TPQ		SARA 304 RQ	
			(lbs)	(gallons)	(lbs)	(gallons)
sodium azide	≤0.3	Yes.	500	-	1000	-

SARA 304 RQ : 1000000 lbs / 454000 kg

SARA 311/312

Classification : Not applicable.

Composition/information on ingredients

Name	%	Classification
Sulfuric acid copper(2+) salt (1:1), hydrate (1:5)	≤0.3	ACUTE TOXICITY (oral) - Category 3
Octoxynol	≤0.3	ACUTE TOXICITY (oral) - Category 4 EYE IRRITATION - Category 2A
sodium azide	≤0.3	ACUTE TOXICITY (oral) - Category 2 ACUTE TOXICITY (dermal) - Category 1

State regulations

Massachusetts : None of the components are listed.

New York : None of the components are listed.

New Jersey : None of the components are listed.

Pennsylvania : None of the components are listed.

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Section 15. Regulatory information

Inventory list

Australia	: Not determined.
Canada	: Not determined.
China	: Not determined.
Eurasian Economic Union	: Russian Federation inventory : Not determined.
Japan	: Japan inventory (CSCL) : Not determined. Japan inventory (ISHL) : Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: Not determined.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: Not determined.
Viet Nam	: Not determined.

Section 16. Other information

Procedure used to derive the classification

Not classified.

History

Date of issue/Date of revision	: 10/13/2025
Date of previous issue	: 7/9/2025
Version	: 1.02
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor DOT = Department of Transportation GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods IMO = International Maritime Organization LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group TDG = Transportation of Dangerous Goods UN = United Nations
References	: Not available.

Notice to reader

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