

# 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.
- GHS label elements**
- Signal word** : No signal word.
- Hazard statements** : No known significant effects or critical hazards.
- Precautionary statements**
- Prevention** : Not applicable.
- Response** : Not applicable.
- Storage** : Not applicable.
- Disposal** : Not applicable.
- Hazards not otherwise classified** : None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

Ingredient name	%	Identifiers
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** : 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.

### Most important symptoms/effects, acute and delayed

Not likely, due to the form of the product.

## Section 4. First aid measures

### 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.

## 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".

**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).
- 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 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

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

### Biological exposure indices

No exposure indices known.

### Control Banding Approach

Not available.

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

## Section 8. Exposure controls/personal protection

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### 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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. 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** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- 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** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## 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.

## Section 9. Physical and chemical properties and safety characteristics

<b>Solubility in water</b>	: Not available.
<b>Partition coefficient: n-octanol/water</b>	: Not applicable.
<b>Auto-ignition temperature</b>	: Not applicable.
<b>Decomposition temperature</b>	: Not available.
<b>Viscosity</b>	: Dynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C (104°F)): Not available.

### Particle characteristics

<b>Pmax</b>	: Not available.
<b>Kst</b>	: Not available.
<b>Min. Ignition Temperature (Dust)</b>	: Not available.
<b>Minimum ignition energy (MIE) - dust cloud</b>	: Not available.
<b>Median particle size</b>	: Not available.

## Section 10. Stability and reactivity

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

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

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

## Section 11. Toxicological information

**Rat - Dermal - LD50**

50 mg/kg

**Rabbit - Dermal - LD50**

20 mg/kg

**Conclusion/Summary [Product]** : Not applicable.

### 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]** : Not applicable.

### 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]** : Not applicable.

### Respiratory corrosion/irritation

Not available.

**Conclusion/Summary [Product]** : Not applicable.

### Respiratory or skin sensitization

Not available.

### **Skin**

**Conclusion/Summary [Product]** : Not applicable.

### **Respiratory**

**Conclusion/Summary [Product]** : Not applicable.

### 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.

## Section 11. Toxicological information

### Potential acute health effects

Not likely, due to the form of the product.

### Potential chronic health effects

Not available.

**General** : No known significant effects or critical hazards.

### Germ cell mutagenicity

Not available.

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

### Carcinogenicity

Not available.

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

### 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

## 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

## Section 12. Ecological information

Octoxynol

0.032 ppm [96 hours]

Effect: Mortality**Acute - LC50 - Fresh water**Fish - Fathead minnow - *Pimephales promelas*Age: 2 to 3 months; Size: 16 mm; Weight: 0.039 g

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

sodium azide

**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**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

: 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

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

## Section 16. Other information

### Procedure used to derive the classification

Not classified.

### History

**Date of issue/Date of revision** : 7/9/2025

**Date of previous issue** : 5/30/2025

**Version** : 1.01

### 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

**Zoetis Inc. believes that the information contained in this Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time.**