

SAFETY DATA SHEET



1. Identification

Product identifier	Piccolo Reagent Rotor
Other means of identification	
Synonyms	400-1003, 400-0003 Liver Panel Plus * 400-1006, 400-0006 General Chemistry 6 * 400-1022, 400-0022 Electrolyte Panel * 400-1023, 400-0023 MetLyte 8 Panel * 400-1024, 400-0024 Basic Metabolic Panel * 400-1025, 400-0025 Lipid Panel * 400-1026, 400-0026 Hepatic Panel * 400-1027, 400-0027 Renal Panel * 400-1028, 400-0028 Comprehensive Metabolic Panel (CMP) * 400-1029, 400-0029 General Chemistry 13 * 400-1030, 400-0030 Lipid Panel Plus * 400-1031, 400-0031 Basic Metabolic Panel Plus * 400-1033, 400-0033 Kidney Check * 400-1034, 400-0034 MetLyte Plus CRP * 400-1035, 400-0035 Biochemistry Panel Plus * 400-1037, 400-0037 MetLac 12 Panel * 400-1040, 400-0040 Transaminase CK * 400-1041, 400-0041 AmLyte 13 Panel
Recommended use	Diagnostic aid.
Recommended restrictions	Professional use.
Manufacturer/Importer/Supplier/Distributor information	
Supplier (USA):	Abaxis, Inc. (now part of Zoetis) 3240 Whipple Road, Union City, CA 94587
Phone number:	+1-510-675-6500
Customer support:	+1-800-822-2947 (AB-PiccoloTechSupport@zoetis.com)
Supplier (EU):	ABAXIS Europe GmbH (now part of Zoetis) Bunsenstr. 9-11, 64347 Griesheim, Germany
Phone number:	+49 6155 780 21 0
Customer support:	+49 6155 780 21 0 (abaxis@abaxis.de)
Website:	www.abaxis.com (Abaxis is now part of Zoetis)
Company (USA):	Zoetis Inc. 10 Sylvan Way, Parsippany, New Jersey 07054
Rocky Mountain Poison & Drug Center:	1-866-531-8896
Emergency phone numbers:	United States CHEMTREC 24 hours: 1-800-424-9300 International CHEMTREC 24 hours: +1-703-527-3887
Company (EU):	Zoetis Belgium S.A. Mercuriusstraat 20, 1930 Zaventem, Belgium
Emergency phone number:	International CHEMTREC 24 hours: +1-703-527-3887
Website:	www.zoetis.com
2. Hazard(s) identification	
Physical hazards	Not classified.
Health hazards	Not classified.
Environmental hazards	Not classified.
OSHA defined hazards	Not classified.
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	The mixture does not meet the criteria for classification.
Precautionary statement	
Prevention	Observe good industrial hygiene practices.

Response	Wash hands after handling.
Storage	Store away from incompatible materials.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	Plastic article. To avoid risks to human health and the environment, comply with the instructions for use. With sample collection: Handle as potentially infectious.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Freeze-dried reagent beads		Mixture	
Copper Sulfate, Pentahydrate		7758-99-8	0 - <1 %
Diluent		Mixture	<0.5 ml
SODIUM AZIDE		26628-22-8	0 - <1 %

Composition comments In accordance with 29 CFR 1910.1200, the exact percentage composition of this mixture has been withheld as a trade secret.

4. First-aid measures

Inhalation No specific treatment is necessary since this material is not likely to be hazardous by inhalation. IF exposed or concerned: Get medical advice/attention.

Skin contact No adverse effects due to skin contact are expected. IF ON SKIN: Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Get medical advice/attention if you feel unwell.

Eye contact No specific first aid measures noted. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue to rinse for at least 15 minutes. Remove contact lenses, if present and easy to do.

Ingestion Not likely, due to the form of the product. If swallowed, do NOT induce vomiting. Rinse mouth. Call a physician or poison control center immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person.

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 Treat symptomatically.

General information IF exposed or concerned: Get medical advice/attention. For personal protection, see section 8 of the SDS. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical Material will burn in a fire. Fire may produce irritating, corrosive and/or toxic gases. Vapors may ignite.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions Use water spray to cool unopened containers.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards No unusual fire or explosion hazards noted. Material will burn in a fire.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Contain the source of spill if it is safe to do so. Collect spill with absorbent material. Clean spill area thoroughly. Wear appropriate protective equipment and clothing during clean-up. The standard biosafety practices for handling infectious materials should be followed.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage**Precautions for safe handling**

Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Wash hands thoroughly after handling. When using, do not eat, drink or smoke. Avoid release to the environment. With sample collection: The standard biosafety practices for handling infectious materials should be followed.

Conditions for safe storage, including any incompatibilities

Keep tightly closed in a dry, cool and well-ventilated place. @ 2 - 8°C (36 - 46°F). Protect from sunlight. Keep away from heat, sparks and open flame. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection**Occupational exposure limits**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Copper Sulfate, Pentahydrate (CAS 7758-99-8)	TWA	1 mg/m ³	Dust and mist.
		0.2 mg/m ³	Fume.
SODIUM AZIDE (CAS 26628-22-8)	Ceiling	0.29 mg/m ³	
		0.11 ppm	

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
Copper Sulfate, Pentahydrate (CAS 7758-99-8)	TWA	1 mg/m ³	Dust and mist.
		0.1 mg/m ³	Fume.
SODIUM AZIDE (CAS 26628-22-8)	Ceiling	0.3 mg/m ³	
		0.1 ppm	

Biological limit values

No biological exposure limits noted for the ingredient(s).

Exposure guidelines**US - California OELs: Skin designation**

SODIUM AZIDE (CAS 26628-22-8) Can be absorbed through the skin.

US - Tennessee OELs: Skin designation

SODIUM AZIDE (CAS 26628-22-8) Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

SODIUM AZIDE (CAS 26628-22-8) Can be absorbed through the skin.

Control banding approach

Not available.

Appropriate engineering controls

General ventilation normally adequate.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Wear safety glasses with side shields.

Skin protection**Hand protection**

Wear appropriate chemical resistant gloves.

Other

Wear suitable protective clothing. Use protective clothing (uniforms, lab coats, disposable coveralls, etc.) in both production and laboratory areas.

Respiratory protection

No personal respiratory protective equipment normally required.

Thermal hazards

Not applicable.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance Plastic article.

Physical state Solid.

Form Solid.

Color Clear.

Odor Odorless.

Odor threshold Not available.

pH Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling range Not available.

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not available.

Flammability limit - upper (%) Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient (n-octanol/water) Not available.

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other information

Explosive properties Not explosive.

Oxidizing properties Not oxidizing.

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous reactions No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials. High temperatures. Sunlight. Keep away from heat, sparks and open flame.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition products Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition. Carbon oxides. Nitrogen compounds.

11. Toxicological information**Information on likely routes of exposure**

Inhalation No adverse effects due to inhalation are expected.

Skin contact No adverse effects due to skin contact are expected.

Eye contact	Health injuries are not known or expected under normal use.
Ingestion	Health injuries are not known or expected under normal use.
Symptoms related to the physical, chemical and toxicological characteristics	Not likely, due to the form of the product.

Information on toxicological effects

Acute toxicity	Expected to be a low hazard for usual industrial or commercial handling by trained personnel.
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Components	Species	Test Results
Copper Sulfate, Pentahydrate (CAS 7758-99-8)		
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg
Oral		
LD50	Rat	300 mg/kg
SODIUM AZIDE (CAS 26628-22-8)		
Acute		
Oral		
LD50	Rat	27 mg/kg
Skin corrosion/irritation	Based on available data, the classification criteria are not met. Health injuries are not known or expected under normal use.	
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met. Health injuries are not known or expected under normal use.	
Respiratory or skin sensitization		
Respiratory sensitization	Based on available data, the classification criteria are not met.	
Skin sensitization	Based on available data, the classification criteria are not met.	
Germ cell mutagenicity	Based on available data, the classification criteria are not met.	
Carcinogenicity	Based on available data, the classification criteria are not met. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity	Based on available data, the classification criteria are not met.
Specific target organ toxicity - single exposure	Based on available data, the classification criteria are not met.
Specific target organ toxicity - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met. Not an aspiration hazard.
Further information	With sample collection: Handle as potentially infectious.

12. Ecological information

Ecotoxicity	Based on available data, the classification criteria are not met for hazardous to the aquatic environment. Contains a substance which causes risk of hazardous effects to the environment. Avoid release to the environment.
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Components	Species	Test Results
Copper Sulfate, Pentahydrate (CAS 7758-99-8)		
Aquatic		
Crustacea	EC50	Daphnia magna (Water Flea)
		Water flea (Daphnia magna)
		0.147 - 0.227 mg/L, 48 Hours
		0.0058 - 0.0073 mg/l, 48 hours

Components		Species	Test Results
Fish	LC50	Bluegill (<i>Lepomis macrochirus</i>)	0.66 - 1.15 mg/l, 96 hours
		<i>Lepomis macrochirus</i> (Bluegill Sunfish)	0.66 - 1.8 mg/L, 96 Hours
SODIUM AZIDE (CAS 26628-22-8)			
Aquatic			
Crustacea	EC50	Water flea (<i>Daphnia pulex</i>)	2.8 - 6.2 mg/l, 48 hours
Fish	LC50	Bluegill (<i>Lepomis macrochirus</i>)	0.68 mg/l, 96 hours
		<i>Oncorhynchus mykiss</i> (Rainbow Trout)	0.8 mg/L, 96 hours
		<i>Pimephales promelas</i> (Fathead Minnow)	5.46 mg/L, 96 hours

Persistence and degradability	Not readily biodegradable.
Bioaccumulative potential	No data available for this product.
Mobility in soil	No data available for this product.
Other adverse effects	Components of this product have been identified as having potential environmental concerns. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Avoid release to the environment.

13. Disposal considerations

Disposal instructions	Handle as potentially infectious. Avoid release to the environment. Do not discharge into drains, water courses or onto the ground. 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. Dispose of contents/container in accordance with local/regional/national/international regulations.
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Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

California Waste Codes: Used rotors are considered bio-hazardous or medical waste.

US RCRA Hazardous Waste P List: Reference

SODIUM AZIDE (CAS 26628-22-8)

P105

Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

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

15. Regulatory information

US federal regulations This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

SODIUM AZIDE (CAS 26628-22-8)

Listed.

SARA 304 Emergency release notification

SODIUM AZIDE (CAS 26628-22-8) 1000 LBS

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)**SARA 302 Extremely hazardous substance**

Chemical name	CAS number	Reportable quantity (pounds)	Threshold planning quantity (pounds)	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)
SODIUM AZIDE	26628-22-8	1000	500		

SARA 311/312 Hazardous chemical No**SARA 313 (TRI reporting)**
Not regulated.**Other federal regulations****Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.**US state regulations****California Proposition 65**California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.**International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision**Issue date** 09-26-2019**Revision date** 01-16-2020**Version #** 02**Disclaimer** 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. The information in the sheet was written based on the best knowledge and experience currently available.

Revision information

Product and Company Identification: Synonyms
Composition / Information on Ingredients: Ingredients