

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: PCS Instrument Calibrator Kit Solutions

Product number: PCS-600: CAL B, CAL C, CAL D

Recommended Use: Calibration testing solution for use with the Artel PCS® Pipette Calibration System

Restrictions: Use only with the Artel PCS

Company: Artel, Inc.
25 Bradley Drive
Westbrook, Maine 04092-2013

Telephone: 207-854-0860
888-406-3463 (toll-free)

Fax: 207-854-0867

Emergency Telephone: Verisk 3E (Account Number 13998)
Inside USA/Canada: 855-212-6039
Outside USA/Canada: 001-760-602-8703

2. HAZARDS IDENTIFICATION

Not hazardous as defined by OSHA 29 CFR 1910, subpart Z

HMIS Classification

Health hazard: 0
Chronic Health Hazard: 0 Flammability: 0
Physical hazards: 0

NFPA Rating

Health hazard: 0
Fire: 0
Reactivity Hazard: 0

Potential Health Effects

Inhalation	None known
Skin	None known
Eyes	None known
Ingestion	None known
Aggravated Medical Condition	None known

This product is a mixture of components and is not considered hazardous under the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

The mixture has not been tested.

Hazards are determined using information supplied by the manufacturer of components, applying OSHA regulations and applying best professional judgment.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Proprietary, aqueous based solution containing the components listed below.

<u>Component</u>	<u>CAS No.</u>	<u>Concentration or Weight %</u>
Aqueous phthalate buffer	None	0.1M
EDTA	64-02-8	0.5%
Copper (II) chloride dihydrate	10125-13-0	0.15%
2-Phenoxyethanol	122-99-6	0.2%
Methyl 4-hydroxybenzoate	99-76-3	0.1%
Ponceau S (Acid Red 112)	6226-79-5	≤ 0.002%

Component Synonyms:

Potassium hydrogen phthalate
KHP

Ethylenediaminetetraacetic acid

2-Phenoxyethanol
Ethylene glycol monophenyl ether
2-Phenoxytolarosol
Dowanol EP / EPH
Emery 6705
Rose ether
1-Hydroxy-2-phenoxyethane
 β -hydroxyethyl phenyl ether
Phenyl cellosolve

Methyl paraben;
Methyl-*p*-hydroxybenzoate;
Methyl-*para*-hydroxybenzoate;
Nipagin M;
E number E218; Tegosept; Mycocten

Ponceau S
Acid Red 112
3-Hydroxy-4-(2-sulfo-4-[4-sulfophenylazo]phenylazo)-2,7-naphthalenedisulfonic acid sodium salt
Tetrasodium 3-hydroxy-4-(2-sulphonato-4-(4-sulphonatophenylazo)phenylazo)naphthalene-2,7-disulphonate

4. FIRST AID MEASURES

General advice

This product is non-hazardous. Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

N/A

In case of skin contact

Wash off with soap and water.

In case of eye contact

Immediately flush with water for at least 15 minutes. Consult a physician.

If swallowed

If patient is conscious, induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms/effects, acute and delayed:

None determined.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media

N/A. This is a nonflammable material.

Special protective equipment for firefighters

N/A. This is a nonflammable material.

Hazardous combustion products

None known.

Further information

None known.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

No special practices required.

Environmental precautions

None known.

Methods and materials for containment and cleaning up

Contain spillage, collect as much as possible and dispose of remainder in accordance with local, state or federal regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

No requirements other than good hygiene and safety practices employed with any laboratory reagents.

Conditions for safe storage

Long term storage should be between 15-25 °C. Prevent spillage or breakage.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Components with workplace control parameters

Personal protective equipment

Respiratory protection

Not required.

Hand protection

Impervious gloves useful but not required.

Eye protection

Not required.

Skin and body protection

Lab coat to protect clothing and minimize skin contact.

Hygiene measures

No requirements other than good hygiene and safety practices employed with any other lab reagents.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	liquid
Color	pink, red, purple

Safety data

The following data are available from the manufacturer of the components, and are not data generated for the mixture. The component for which the information is known is given below, along with a clarification as to which component the information comes from. If no specification is given, then the data pertains to the mixture.

pH	6.00 ±0.07
Melting/ freezing point	0 °C
Boiling point	100 °C
Flash point	N/A
Ignition temperature	N/A
Auto ignition temperature	N/A
Lower explosion limit	N/A
Upper explosion limit	N/A
Vapor pressure	17.6 mmHg
Density	1.0 g/cm ³
Water solubility	complete
Partition coefficient, n-octanol/water	no data available, N/A
Relative vapor density	no data available
Odor	odorless
Odor Threshold	no data available, N/A
Evaporation rate (butyl acetate = 1)	0.3
Decomposition temperature	no data available, N/A
Viscosity	1 cP

10. STABILITY AND REACTIVITY

Reactivity and Chemical stability

Stable.

Possibility of hazardous reactions

No data available, N/A.

Conditions to avoid

Avoid contact with clothing, may cause staining.

Materials to avoid

No data available, N/A.

Hazardous decomposition products

No data available, N/A.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

no data available

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

12. ECOLOGICAL INFORMATION

No relevant studies identified.

13. DISPOSAL CONSIDERATIONS

Product

Not an RCRA hazardous waste as supplied. Observe all federal, state, and local waste disposal laws. State and local regulations may differ from federal regulations. Always comply with local disposal regulations.

14. TRANSPORT INFORMATION

DOT (US)

Not classified.

IMDG

Not classified.

IATA

Not classified.

No special precautions required.

15. REGULATORY INFORMATION

The following regulatory information is believed accurate as of the date of this SDS. Check all applicable laws for possible changes.

OSHA Hazards

Not hazardous as defined by OSHA 29 CFR 1910, subpart Z.

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

None known.

Massachusetts Right to Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right to Know Components

No components are subject to the Pennsylvania Right to Know Act.

New Jersey Right to Know Components

No components are subject to the New Jersey Right to Know Act.

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Revision Date: 19 September 2019

Disclaimer

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are consistent with the information provided to Artel, by the manufacturer of the components of the mixture, except as stated otherwise, and are believed to be accurate and should be used as a guide only. No warranty or guarantee is expressed or implied with respect to the information provided. Artel, Inc. assumes no responsibility as a result of incidental or consequential damages, including lost profits, arising from the use of this data. No warranty against infringement of any patents, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Artel assumes no responsibility for the completeness or accuracy of the information contained herein.