

SAFETY DATA SHEET

SDS DATE: April 22, 2020



SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: EZClick™ Total Phospholipid Assay Kit (Cell-Based)

PRODUCT CODES: Cat# K537-100

RESTRICTIONS ON USE: For laboratory research purposes. Not for drug or household use.

MANUFACTURER: BioVision, Inc.

ADDRESS: 155 S. Milpitas Blvd. Milpitas, CA 95035

EMERGENCY PHONE: 858-373-8066

OTHER CALLS: 408-493-1800

FAX PHONE: 408-493-1801

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component	Description	Volume	Safety Information
EZClick™ Wash Buffer (10X)	Liquid	25 ml	No hazards
Fixative Solution	Solution (contains Formaldehyde)	10 ml	See below
Permeabilization Buffer (10X)	Liquid	25 ml	No hazards
EZClick™ Protein Label (400X)	Liquid	10 µl	No hazards
Copper Reagent (100X)	Solution (contains Copper Reagent)	100 µl	See below
EZClick™ Fluorescent Azide (100X)	Liquid	100 µl	No hazards
Reducing Agent (20X)	Liquid	500 µl	No hazards
EZClick™ Total DNA Stain (1000X)	Liquid	20 µl	No hazards

Copper Reagent:

Emergency Overview

GHS Classification: Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

GHS Label elements, including precautionary statements

Pictogram:



Signal word:

Warning

Hazard statement(s):

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s):

P273 Avoid release to the environment.
P391 Collect spillage.
P501 Dispose of contents/ container to an approved waste disposal plant.

HMIS Classification

Health hazard: 2

Fire hazard: *

Flammability: 0

Physical hazards: 0

NFPA Rating

Health Hazard: 2

Fire: 0

Reactivity Hazard: 0

Potential Health Effects

Inhalation: Toxic if inhaled. Causes respiratory tract irritation.

Skin: Toxic if absorbed through skin. Causes skin irritation.

Eyes: Causes eye irritation.

Ingestion: Toxic if swallowed.

Formaldehyde:

Emergency Overview

OSHA Hazards: Target organ effect, Toxic by ingestion, Toxic by skin absorption, Skin and respiratory sensitizer, Corrosive, Carcinogen

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Target Organs: Eyes, Kidney, Liver, Heart

GHS Classification: Acute toxicity, Oral (Category 3)
Acute toxicity, Dermal (Category 3)
Serious eye damage (Category 1)
Skin irritation (Category 2)
Respiratory sensitization (Category 1)
Skin sensitization (Category 1)
Carcinogenicity (Category 2)
Acute aquatic toxicity (Category 3)



GHS Label elements, including precautionary statements

Pictogram:



Signal word:

Danger

Hazard statement(s):

H301+H311 Toxic if swallowed or in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H351 Suspected of causing cancer.
H402 Harmful to aquatic life.

Precautionary statement(s):

P261 Avoid breathing dust/fumes/gas/mist/vapors/spray.
P264 Wash hands thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P311 Call a POISON CENTER or doctor/physician.

HMIS Classification

Health hazard: 3
Chronic health hazard: *
Flammability: 0
Physical hazards: 0

NFPA Rating

Health Hazard: 3
Fire: 0
Reactivity Hazard: 0

Potential Health Effects

Inhalation: May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
Skin: Toxic if absorbed through skin. Causes skin burns.
Eyes: Causes eye burns.
Ingestion: Toxic if swallowed.

SECTION 3: HAZARDS IDENTIFICATION

Component	CAS Number	EC-No.	Molecular Weight	Chemical Formula	Concentration
Copper Reagent	--	--	--	--	<10%
Formaldehyde	50-00-0	200-001-8	30.03	HCHO	<10%

SECTION 4: FIRST AID MEASURES

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact: Wash off with soap and plenty of water. Consult a physician.

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed: DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

SECTION 5: FIRE-FIGHTING MEASURES

Condition of flammability: Not flammable or combustible.

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters: Wear self-contained breathing apparatus for firefighting if necessary.

Hazardous combustion products: Hazardous decomposition products formed under fire conditions— decomposition products not known.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods for cleaning up: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Use explosion-proof equipment. Keep away from sources of ignition (no smoking). Take measures to prevent the buildup of electrostatic charge.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage temperature: -20 °C

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Formaldehyde:

Components	CAS-No.	Value	Control parameters	Basis
Formaldehyde	50-00-0	C	0.3 ppm	USA. ACGIH Threshold Limit Values (TLV)
Remarks:	Eye & upper respiratory tract irritation. Suspected human carcinogen. Sensitizer Substance listed, for more information see OSHA document 1910.1048 See 1910.1048			
		TWA	0.016 ppm	USA. NIOSH Recommended Exposure Limits
	Potential occupational carcinogen. See Appendix A, 15 minutes ceiling value.			
		C	0.1 ppm	USA. NIOSH Recommended Exposure Limits
	Potential occupational carcinogen. See Appendix A, 15 minutes ceiling value.			

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Copper Reagent	Formaldehyde
Appearance:	blue liquid	Clear liquid
pH:	No data available	No data available
Water Solubility:	No data available	No data available
Other Solubility:	No data available	No data available
Boiling Point (°C):	No data available	No data available
Melting Point (°C):	No data available	No data available
Flash Point (°C):	No data available	No data available
Ignition Temperature (°C):	No data available	No data available
Density:	No data available	No data available

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SECTION 10: STABILITY AND REACTIVITY

Property	Copper Reagent	Formaldehyde
Chemical stability:	Stable under recommended storage conditions	
Conditions to avoid:	No data available	No data available
Materials to avoid:	Powdered metals, Anhydrous copper(II) sulfate, reacts violently with; hydroxylamine, Magnesium	Strong oxidizing agents
Hazardous decomposition products:	No data available	Carbon oxides

SECTION 11: TOXICOLOGICAL INFORMATION

Copper Reagent:

Acute toxicity: no data available

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

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.

Reproductive toxicity: no data available

Teratogenicity: no data available

Specific target organ toxicity – single exposure (GHS): Causes damage to organs.

Specific target organ toxicity – repeated exposure (GHS): no data available

Potential Health Effects

Inhalation: Toxic if inhaled. Causes respiratory tract irritation.

Skin: Toxic if absorbed through skin. Causes skin irritation.

Eyes: Causes eye irritation.

Ingestion: Toxic if swallowed.

Signs and Symptoms of Exposure: no data available

Additional information: no data available

RTECS: no data available

Formaldehyde:

Acute toxicity: no data available

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: Eyes: no data available

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

IARC: 1 - Group 1: Carcinogenic to humans (Formaldehyde)

NTP: Reasonably anticipated to be a human carcinogen (Formaldehyde)

Reproductive toxicity: no data available

Teratogenicity: no data available

Specific target organ toxicity - single exposure (Globally Harmonized System): no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System): no data available

Aspiration hazard: no data available

Potential Health Effects

Inhalation: May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Skin: Toxic if absorbed through skin. Causes skin burns.

Eyes: Causes eye burns.

Ingestion: Toxic if swallowed.

Signs and Symptoms of Exposure: Exposure may cause burning sensation, cough, wheezing, laryngitis, shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.

SECTION 12: ECOLOGICAL INFORMATION

Persistence and degradability: no data available

Toxicity: no data available

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Bioaccumulative potential: no data available

Mobility in soil: no data available

PBT and vPvB assessment: no data available

Other adverse effects: no data available



SECTION 13: DISPOSAL CONSIDERATIONS

Product: Observe all federal, state, and local environmental regulations.

Contaminated packaging: Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

Copper Reagent:

DOT (US): UN-number: 3082, Class: 9, Packing group: III; Proper shipping name: Copper Reagent; Reportable Quantity (RQ): 400 lbs.;

Marine pollutant: No; Poison inhalation hazard: No

IMDG: UN-number: 3082, Class: 9, Packing group: III; EMS-No: F-E, S-D; Proper shipping name: COPPER REAGENT; Marine pollutant: No

IATA: UN-number: 3082, Class: 9, Packing group: III; Proper shipping name: Copper Reagent

Formaldehyde:

DOT (US): UN number: 2209, Class: 8, Packing group: III; Proper shipping name: Formaldehyde solutions; Reportable Quantity (RQ): 200 lbs; Marine pollutant: No; Poison Inhalation Hazard: No

IMDG: UN number: 2209, Class: 8, Packing group: III; EMS-No: F-A, S-B; Proper shipping name: FORMALDEHYDE SOLUTION; Marine pollutant: No

IATA: UN number: 2209, Class: 8, Packing group: III; Proper shipping name: Formaldehyde solution

SECTION 15: REGULATORY INFORMATION

SARA 302 Components: SARA 302: The following components are subject to reporting levels established by SARA Title III, Section 302
Formaldehyde, CAS-No. 50-00-0; Revision Date: 2007-07-01

SARA 313 Components: The following components are subject to reporting levels established by SARA Title II, Section 313:

Copper Reagent, CAS-No. --; Revision Date: 2007-07-01

Formaldehyde, CAS-No. 50-00-0; Revision Date: 2007-07-01

SARA 311/312 Hazards:

Copper Reagent: Acute Health Hazard, Chronic Health Hazard

Formaldehyde: Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components:

Copper Reagent, CAS-No. --; Revision Date: 2007-07-01

Formaldehyde, CAS-No. 50-00-0; Revision Date: 2007-07-01

Pennsylvania Right To Know Components:

Copper Reagent, CAS-No. --; Revision Date: 2007-07-01

Formaldehyde, CAS-No. 50-00-0; Revision Date: 2007-07-01

New Jersey Right To Know Components:

Copper Reagent, CAS-No. --; Revision Date: 2007-07-01

Formaldehyde, CAS-No. 50-00-0; Revision Date: 2007-07-01

California Prop. 65 Components  **WARNING:** This product can expose you to chemicals including Formaldehyde, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

EU regulations:

Component	Risk Phrases	Safety Phrases
Copper Reagent	R11, R23/24/25, R33	S16, S24/25, S36/37, S45
Formaldehyde	R24/25, R35, R40, R42/43	S26, S36/37/39, S45, S51

SECTION 16: OTHER INFORMATION:

DISCLAIMER:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. BioVision, Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.