



epoc[®] Blood Analysis System

Safety Data Sheet – Epocal Calibration Fluid

Conforms to regulation (EC) No 1907/2006 (REACH) and 29 CFR 1910.1200(g)

Section 1. Product / Company Identification

PRODUCT IDENTIFIER: Epocal Calibration Fluid.

GENERAL USE: Solution is used for internal epoc[®] system calibration.

CAS No: Mixture: 7647-14-5, 144-55-8.

MANUFACTURER: Epocal Inc., 2060 Walkley Road, Ottawa, ON K1G3P5, Canada.

DATE OF PREPARATION: May 20, 2015.

Section 2. Hazard Identification

Classification

Product is an article that does not meet WHMIS or GHS criteria for physical, health, or environmental hazards.

Label Elements

No signal word, hazard, or precautionary statements required since this product is an article that does not meet WHMIS or GHS classification for physical, health, or environmental hazards.

Section 3. Composition/Information on Ingredients

Product is a solution that is 98% deionized water.

CAS No	% weight	Name	GHS Classification
7647-14-5	0.55	Sodium Chloride	None
144-55-8	0.17	Sodium Bicarbonate	None

Section 4. First Aid Measures

EYE CONTACT: Remove contact lenses. Flush with cool water for at least fifteen minutes while holding eyelids open. Seek medical attention if irritation persists.

SKIN CONTACT: Immediately flush skin with plenty of water for at least fifteen minutes while removing contaminated clothing and shoes. Seek medical attention if irritation persists.

INHALATION: Not anticipated to present an inhalation hazard.

INGESTION: Rinse the victim's mouth out with water. Do not induce vomiting. If the material is swallowed, seek medical attention or advice.



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Section 5. Fire-Fighting Measures

EXTINGUISHING MEDIA: Not applicable – material not flammable.

SPECIAL EXPOSURE HAZARDS: Not applicable – material not flammable.

FIRE AND EXPLOSION HAZARDS: Not applicable – material not flammable.

HAZARDOUS DECOMPOSITION PRODUCT(S): Carbon oxides (CO, CO₂), chlorine containing compounds.

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.

SPECIAL REMARKS ON FIRE HAZARDS: Not applicable – material not flammable.

SPECIAL REMARKS ON EXPLOSION HAZARDS: Not applicable – material not explosive.

Section 6. Accidental Release Measures

PERSONAL PRECAUTIONS: Wear lightweight nitrile gloves (or equivalent) and safety glasses.

ENVIRONMENTAL PRECAUTIONS: Dispose of waste according to federal, state, provincial and local environmental requirements.

METHOD FOR SPILL CLEAN-UP: Clean up liquid spills from product containers with an absorbent pad, paper towel, or equivalent.

Section 7. Handling and Storage

HANDLING: Avoid prolonged or repeated contact with skin or eyes.

STORAGE: Store material away from temperature extremes.

Section 8. Exposure Controls / Personal Protection

Exposure Guidelines

Not listed

Personal Protection

RESPIRATORY: Not needed in normal use.

HANDS: Wear gloves made from impervious materials such as nitrile, neoprene, or equivalent.

ENGINEERING MEASURES: General dilution ventilation is adequate to prevent overexposure.



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HYGIENE MEASURES: After handling, wash hands thoroughly with soap and water before eating, drinking, smoking or using toilet facilities. Eye wash facilities should be available.

RECOMMENDED MONITORING PROCEDURES: Exposure guidelines not listed.

EYES: Wear chemical safety glasses.

Section 9. Physical and Chemical Properties

PHYSICAL STATE: Liquid.

FLASH POINT: Not flammable.

AUTO-IGNITION TEMPERATURE: Not flammable.

FLAMMABLE LIMITS: Not flammable.

COLOR: Colorless.

ODOR: Odorless.

ODOR THRESHOLD: Not available.

pH: 7.4.

BOILING/CONDENSATION POINT: Not available.

VOLATILITY: Not available.

EVAPORATION RATE: Not available.

POUR POINT: Not available.

RELATIVE DENSITY: Not available.

VAPOR DENSITY: Not available.

VAPOR PRESSURE: Not available.

SOLUBILITY Not available.

Section 10. Reactivity Data

CHEMICAL STABILITY: This product is stable.

MATERIALS TO AVOID: None identified.

HAZARDOUS POLYMERIZATION: Under normal conditions of storage and use, hazardous polymerization will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon oxides (CO, CO₂), chlorine containing compounds.



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Section 11. Toxicological Data

Acute Toxicity

Substance	LD50 of Ingredients	LC50 of Ingredients	TDLo - Lowest published toxic dose	Routes of entry
Sodium Chloride	3 g/kg (rodent-rat)	>42 g/m ³ /1H (rodent-rat)	0.04 mg/kg (rodent-rabbit)	oral, inhalation, subcutaneous
Sodium Bicarbonate	3360 mg/kg (rodent-mouse)	>900 mg/m ³ (rodent-rat)	20 mg/kg/5D (human)	oral, inhalation
ATE _{mix}	42,754 mg/kg	>529 mg/L	Not available	

NO DATA LISTED FOR: skin corrosion/irritation; serious eye damage/irritation; respiratory or skin sensitization; germ cell mutagenicity; carcinogenicity; reproductive toxicity; STOT-single exposure; STOT repeated exposure; aspiration hazard.

Section 12. Ecological Data

Ecological testing has not been reported for this product.

Section 13. Disposal Considerations

Typical releases will most likely be in the microliter range. Dispose of container and unused contents in accordance with applicable federal, state, provincial or local regulations.

Section 14. Transportation Information

Not Regulated by DOT (US), TDG (Canada) or IATA.

Section 15. Regulatory Information

There are no authorizations or restriction on use for this product. No chemical safety assessment has been carried out.

Section 16. Other Information

NOTICE: The data in this SDS relate only to the specific material herein and do not relate to use in combination with any other material or in any process. The information is based on technical and product data that is believed to be accurate, reliable and complete. This SDS has been prepared in accordance with GHS and REACH requirements. We make no warranty, expressed or implied regarding the accuracy,



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reliability and completeness of the data or the results to be obtained from the use thereof. We assume no responsibility or liability for injury or harm from the use of the product described herein. The user is not exempt from observing all legal, administrative and regulatory procedures relating to the product, people and environment.

Questions

Please contact Alere Technical Services in your region if you have questions regarding this Safety Data Sheet:

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