



1121 5th Street NW
Washington, DC 20001
www.edvotek.com

Safety Data Sheet

Version 2
Revision Date 05/14/2025

PRODUCT AND COMPANY IDENTIFICATION

Product name:	Kit 331 Purification Buffer	Telephone:	1-800-338-6835 or 202-370-1500
Product Number:		Fax:	202-370-1501
Brand:	Edvotek	Emergency Phone #:	202-370-1500
Supplier:	Edvotek		
1121 5 th Street NW Washington, DC 20001			

HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards:

No known OSHA hazards.

GHS Classification

Acute oral toxicity (Category 4)
Serious Eye Damage (Category 1)
Chronic aquatic toxicity (Category 3)

Signal Word

Danger

Pictogram



Hazard Statement(s)

H302 Harmful if swallowed.
H318 Causes serious eye damage.
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statement(s)

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

HMIS Classification:

Health hazard: no data available
Flammability: no data available

Physical hazard: no data available

NFPA Rating:

Health hazard: no data available
Fire: no data available
Reactivity hazard: no data available

Potential Health Effects:

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation.

Ingestion: Harmful if swallowed.

COMPOSITION/INFORMATION ON INGREDIENTS

Formula: Mixture including $C_2H_6N_4S$, $C_{21}H_{17}NaO_5S$

Molecular Weight: 118.16 g/mol, 382.42 g/mol

Chemical name	EC No.	CAS -No	Concentration
FIRST AID MEASURES			
Cresol Red	100-015-513	1733-12-6	1-10%

General

information

No special measures required. Show this material safety data sheet to any medical professional in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult doctor in case of complaints.

In case of skin contact

Immediately wash off with soap and plenty of water. Get medical attention if symptoms develop.

In case of eye contact

Immediately, flush eyes with water. Remove contacts if present and continue washing. Get medical attention immediately if irritation persists.

If swallowed

Rinse mouth with water and get medical attention. Never give anything by mouth to an unconscious person.

FIREFIGHTING MEASURES**Conditions of flammability**

Not flammable or combustible.

Suitable extinguishing media

Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.

Special protective equipment for firefighters

Wear self contained breathing apparatus for fire fighting if necessary. Do not breath in fumes.

Hazardous combustion products

Carbon oxides. Sulfur oxides.

ACCIDENTAL RELEASE MEASURES**Personal precautions**

Prevent skin/eye contact. Use personal protective equipment as needed. Avoid breathing dust/fumes/gas/mist/vapors/spray.

Environmental precautions

Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.

Methods and materials for containment and cleaning up

Clean up spills immediately. Use absorbent materials if needed (sand, silica gell, universal binder, sawdust etc.) and dispose into a chemical waste container.

HANDLING AND STORAGE**Precautions for safe handling**

No special measures necessary. Good laboratory technique should be used

when handling. Avoid contact with skin and eyes.

Conditions for safe storage

No special measures necessary. Store at room temperature, in a dry and well ventilated place.

Incompatible Products

No known products

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION**Personal protective equipment****Respiratory protection**

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Wear protective gloves. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Eye protection

Avoid eye contact with this material. Wear chemical safety goggles.

Skin and body protection

Use chemical gloves as needed. Use clean protective body covering clothing as needed to minimize contact with clothing and skin.

Hygiene measures

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

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form	liquid
Colour	no data available
Odor	characteristic

Safety data

pH	5.1
Melting point/freezing point	no data available
Boiling point	no data available
Flash point	no data available
Ignition temperature	no data available
Autoignition Temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapour pressure	no data available
Density (water=1)	no data available
Water solubility	no data available
Partition coefficient:	
n-octanol/water	no data available
Relative vapour Density	no data available
Odour Threshold	no data available
Evaporation rate	no data available

10. STABILITY AND REACTIVITY**Chemical stability**

Stable under recommended storage conditions.

Keep away from oxidizing agents, strong acidic products, and strong alkaline products.

Possibility of hazardous reactions

No further relevant data available.

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions.

Conditions to avoid

No further relevant data available.

Thiocyanates can develop poisonous gases when in contact with strong acids.

Materials to avoid**TOXICOLOGICAL INFORMATION**

Acute toxicity LD/LC50 values

Harmful if swallowed. Estimated acute oral toxicity 1,152 mg/kg.

Serious eye damage/eye irritation

May cause serious eye damage.

Skin corrosion/irritation

No data available

Reproductive toxicity

No data available

Teratogenicity

No data available

Respiratory or skin sensitization

Estimated dermal toxicity 2,139 mg/kg. Estimated inhalation toxicity 21.39 mg/l for 4 hours.

Germ cell mutagenicity

No data available

Carcinogenicity

No components of this product are listed by IARC, ACGIH, NTP and OSHA.

Aspiration hazard

no data available

Synergistic effects

no data available

12. ECOLOGICAL INFORMATION

Toxicity

no data available

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

PBT and vPvB assessment

no data available

Other adverse effects

no data available

13. DISPOSAL CONSIDERATIONS

Product

Dispose of unused product, residues, and containers according to local, regional, state, and national regulations.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

15. REGULATORY INFORMATION

OSHA Hazards

No known OSHA hazards

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 reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard

16. OTHER INFORMATION

For educational use only. Not intended for human or animal diagnostic or therapeutic uses.

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.