

SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY INFORMATION

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: McKesson Consult FOB ER
MFR #: 127-50ER, 127-100ER, and 127-8DVER


Intended Use: McKesson Consult FOB ER is a rapid, convenient, and non-offensive qualitative method for detecting occult blood in the stool. It is intended for professional use as an aid in the diagnosis of asymptomatic gastrointestinal conditions that may manifest themselves by the presence of occult blood in the stool.

DISTRIBUTED BY: McKesson Medical-Surgical Inc.
 9954 Mayland Drive, Suite 4000
 Richmond, VA 23233

INFORMATION LINE: 1-800-777-4908 Monday – Friday 8:00 a.m. – 6:00 p.m. EST

EMERGENCY PHONE: 1-800-451-8346 (3E Company) Day or Night

SECTION 2: HAZARDOUS INGREDIENTS

GHS CLASSIFICATION	SIGNAL WORD	SYMBOL	HAZARD & PRECAUTIONARY STATEMENTS	
Flammable Liquids (Category 2) Skin and eye damage, corrosion or irritation (Category 1) Acute Toxicity Oral, (Category 5)	Danger		H225 H318 H303 H315	Highly flammable liquid and vapor Causes serious eye damage May be harmful if swallowed Causes skin irritation
			P210 P233 P280 P302+ P352 P305+ P351+ P338 P310	Keep away from heat, hot surfaces, and sparks. No smoking. Keep container tightly closed Wear protective gloves, protective clothing and eye/face protection. IF ON SKIN: Wash with plenty of soap and water. 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.

Emergency Overview:

This SDS should be retained and available for employees and other users of this product.

As part of good industrial, personal hygiene & safety procedure, avoid all unnecessary exposure to the chemical components in this kit and ensure prompt removal from skin, eyes, and clothing. Significant health effects are NOT anticipated from routine use when adhering to the instructions listed in the Package Insert provided with kit.

Human serum products and patient specimens should be considered potentially hazardous and handled in the same manner as an infectious agent. Follow Universal Precautions as necessary

SECTION 3: COMPOSITION

DESCRIPTION OF COMPONENTS:

- McKesson Consult FOB ER Developing Solution - Contains a stabilized mixture of hydrogen peroxide (less than 4%) and 75% denatured ethyl alcohol in aqueous solution.

PRODUCT DESCRIPTION:

Mixture; Clear; Liquid; Alcohol odor; Consisting of the following ingredient(s)

CHEMICAL	IUPAC	SYNONYMS	CONCENTRATION	IDENTIFIERS	
Ethyl Alcohol Molecular Formula: C_2H_6O	Ethanol	Ethyl alcohol, Ethyl hydrate, Ethyl hydroxide, Ethylic alcohol, Ethylol, Hydroxyethane, Methyl Carbinol	$\leq 75.0\%$	CAS	64-17-5
				PUBCHEM	702
				EC	200-578-6
				UN	1170
				RTEC	KQ6300000
Hydrogen Peroxide Molecular Formula: H_2O_2	Hydrogen Peroxide	Dioxidane, Oxidanyl, Perhydroxic Acid	$< 6.0\%$	CAS	7722-84-1
				PUBCHEM	784
				EC	231-765-0
				UN	2984
				RTEC	MX0887000
2,2 Bipyridyl Molecular Formula: $C_{10}H_8N_2$	2,2'-Bipyridine	Bipyridyl, Dipyridyl, Bipy, Bpy, Dipy	$< 1.0\%$	CAS	366-18-7
				PUBCHEM	1474
				EC	206-674-4
				UN	2811
				RTEC	DW1750000

SECTION 4: FIRE & EXPLOSION HAZARD DATA

EYES:	In case of contact with eyes, immediately wash eyes under potable running water for at least 15 minutes, making sure that the eyelids are held open. If pain or irritation occurs, obtain medical attention.
SKIN:	In case of contact to the skin, remove any contaminated clothing and wash affected area with plenty of soap and water. If pain, irritation, or other symptoms develop, obtain medical attention.
INGESTION:	In case of ingestion, contact a poison control center or physician for instructions. Only induce vomiting if directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
INHALATION:	Move victim into fresh air, if breathing is labored or victim loses consciousness contact a physician immediately, If breathing stops, administer artificial respiration; use oxygen as required. Contact a physician immediately.
SYMPTOMS:	To the best of our knowledge, no symptoms, acute or delayed, have been reported.

SECTION 5: FIRE & EXPLOSION HAZARD DATA

Flash Point:	McKesson Consult FOB ER Developer: 21 °C (69.8 °F) Ethyl Alcohol: 56° F (13 °C) Tag Closed Cup 60° F (16 °C) Tag Open Cup Peroxide: Not Combustible
Auto-ignition Temperature:	Not Applicable
Upper / Lower Explosion Limit:	Not Applicable
Extinguishing Media:	For small fires, use dry chemical, carbon dioxide, alcohol-resistant foam, or water spray.
Special Fire Fighting Procedures:	Use extinguishing material suitable to the surrounding fire. Utilize proper personal protective equipment when responding to any fire. Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Do not use oxidizable sorbents.
Special Exposure Hazards:	Oxygen evolution from decomposition of hydrogen peroxide will support combustion and may serve to intensify a fire. (Hydrogen Peroxide concentration is nominal)

Only trained and competent personnel shall attempt to extinguish a fire. Contact emergency response personnel as required. Be cautious of surrounding materials that may react with the extinguishing media.

NFPA Ratings:

	FLAMMABILITY	REACTIVITY	SPECIAL	HEALTH
0	Will not burn (e.g., argon)	Normally stable, even under fire exposure conditions, and is not reactive with water (e.g. helium)	The white "special notice" area can contain several symbols. The following symbols are defined by the NFPA 704 standard.	Poses no health hazard, no precautions necessary (e.g., water)
1	Must be heated before ignition can occur (e.g., mineral oil). Flash point over 93°C (200°F)	Normally stable, but can become unstable at elevated temperatures and pressures (e.g. propene)		Exposure would cause irritation with only minor residual injury (e.g., acetone)
2	Must be moderately heated or exposed to relatively high ambient temperature before ignition can occur (e.g., diesel fuel). Flash point between 38°C (100°F) and 93°C (200°F)	Undergoes violent chemical change at elevated temperatures and pressures, reacts violently with water, or may form explosive mixtures with water (e.g., phosphorus, potassium, sodium)	OX Oxidizer (e.g., potassium perchlorate, ammonium nitrate, hydrogen peroxide)	Intense or continued but not chronic exposure could cause temporary incapacitation or possible residual injury (e.g., ethyl ether)
3	Liquids and solids that can be ignited under almost all ambient temperature conditions (e.g., gasoline). Liquids having a Flash point below 23°C (73°F) and having a Boiling point at or above 38°C (100°F) or having a Flash point between 23°C (73°F) and 38°C (100°F)	Capable of detonation or explosive decomposition but requires a strong initiating source, must be heated under confinement before initiation, reacts explosively with water, or will detonate if severely shocked (e.g. ammonium nitrate)	W Reacts with water in an unusual or dangerous manner (e.g., cesium, sodium, sulfuric acid)	Short exposure could cause serious temporary or moderate residual injury (e.g., chlorine gas)
4	Will rapidly or completely vaporize at normal atmospheric pressure and temperature, or is readily dispersed in air and will burn readily (e.g., propane, hydrogen). Flash point below 23°C (73°F)	Readily capable of detonation or explosive decomposition at normal temperatures and pressures (e.g., nitroglycerine, Trinitrotoluene)		Very short exposure could cause death or major residual injury (e.g., hydrogen cyanide, phosphine, carbon monoxide)

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Use Personal Protective Equipment during clean-up procedures. Use good laboratory procedures; avoid eye and skin contact.
Environmental Precautions:	No environmental hazard is anticipated if the material is handled and disposed of with due care. Contain spill to prevent migration.

**Spill and Leak Procedures:**

Large spills of this kit are unlikely. Personnel who have received basic chemical safety training can generally handle small-scale releases, such as 1 container in this kit. Utilize safety glasses, nitrile gloves, and lab coat/apron when responding to spills involving the components of this kit. Absorb liquid with an appropriate inert, non-flammable absorbent and place in container suitable for disposal. Dispose of in accordance with applicable U.S. Federal, State, or local procedures or appropriate standards of Canada or the EU (see Section 13, Disposal Considerations).

SECTION 7: HANDLING & STORAGE

Handling: As with all chemicals, avoid getting components within this kit ON YOU or IN YOU. Wash exposed areas thoroughly after using this kit. Do not eat or drink while using this kit. This kit should be handled only by qualified clinical or laboratory personnel trained on the use of this kit. This kit should be handled as though capable of transmitting infectious diseases. Universal Precautions should be followed when using this kit. Not for use by the general public.

Storage: Keep away from incompatible materials (Section 10). To maintain efficacy, when not in use, keep components tightly closed and store per the package insert instructions.

Specific Use: **For in vitro diagnostic use only.**

Other: Do not substitute reagents from kits from other manufacturers. The reagents in each kit are matched. Reagents from different kits must not be interchanged or pooled. Mix the reagents well before use. If the kit does not yield expected results when controls are tested, the kit should be discarded. Traces of detergent or dried reactants on the test slide may adversely affect test performance and results. Replace vial closure when not being used.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

	OSHA PEL	ACGIH TLV	DFG MAK	NIOSH
Hydrogen Peroxide				
EU Index: 008-003-00-9				
EU Classification: Oxidant (O) Corrosive (C)	1 ppm TWA; 1.4 mg/m ³	1 ppm TWA	1 ppm, 1.4 mg/m ³	1 ppm; 1.4 mg/m ³ TWA (IDLH): 75 ppm
Ethanol				
EU Index: 603-002-00-5				
EU Classification: Highly Flammable	1000 ppm TWA; 1900 mg/m ³ TWA	1000 ppm; 1880 mg/m ³ TWA	500 ppm, 960 mg/m ³	1000 ppm; 1900 mg/m ³ TWA (IDLH): 3,300 ppm [LEL]

Occupational Exposure Controls:

Engineering Controls: No special engineering controls are required when working with this kit. Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above.

Personal Protective Equipment (PPE):



Respiratory Protection:	Under normal conditions, the use of this product should not require respiratory protection.
Eye Contact:	Safety glasses or chemical goggles should be worn to prevent eye contact. Refer U.S. OSHA 29 CFR 1910.133, European Standard EN166 or appropriate government standards.
Skin Contact:	Wear Impervious gloves, such as latex or equivalent, should be worn to prevent skin contact and especially cover any cuts, abrasions or skin lesions. Dispose of gloves as bio-hazardous material. Wash hands thoroughly after removing gloves. Use extreme caution with any sharp object to avoid percutaneous exposure to material. Wear outer protective garments such as a lab coat or gown. Refer U.S. OSHA 29 CFR 1910.138, European Standard EN374 or appropriate government standards.
Other:	Not Applicable

Environmental Controls: No special environmental controls are required.

SECTION 9: PHYSICAL/CHEMICAL CHARACTERISTICS

Characteristic	ER Developer Soln.
Appearance	Clear to slightly amber
Odor	Odorless
pH	Neutral
Boiling Point	78 °C-81 °C
Melting Point	< -20 °C
Specific Gravity	0.86 @ 20 °C
Vapor Pressure	40 mm Hg @ 25 °C
Vapor Density	1.6
Solubility in Water	Completely Miscible
Evaporation Rate	2.5
Auto-ignition Temperature	Not Available
Decomposition Temperature	Not Available
Viscosity	Not Available

SECTION 10: STABILITY AND REACTIVITY

Stability:	Is generally considered to be stable when stored per approved labeling except when exposed to excessive heat, sparks, open flame, other sources of ignition and incompatible chemicals.
Conditions to Avoid:	Do not freeze. Protect from prolonged exposure to heat, humidity, and light, ignition sources & incompatible materials.
Materials to Avoid (Incompatibility):	Concentrated nitric and sulfuric acids, strong oxidizing agents. Excessive heat. Rust, dirt, dust and inert particulate solids in general. Iron, copper and heavy metals, their salts and alloys. Ultra violet light may induce photo decomposition.
Hazardous Decomposition or Byproducts:	None, when stored as recommended

Hazardous Reactions: NONE EXPECTED

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicity Data for Hazardous Ingredients:

	Inhalation LC50 Rat	Oral LD50 Rat	Dermal LD50 Rat	Dermal LD50 Rabbit
Ethyl Alcohol	124.7 mg/L 4 h	7050 mg/kg	N/A	N/A
Hydrogen Peroxide	2 mg/L 4 h	801 mg/kg	4050 mg/kg	2000 mg/kg
2,2 Bipyridyl	N/A	100 mg/kg	935 mg/kg	N/A

Routes of Exposure:

Overexposures to components within this kit are not expected. Common routes of exposure may include ingestion and eye/skin contact. Specific paths of concern for potentially infectious materials are skin puncture, contact with broken skin, contact with mucous membranes and inhalation of aerosolized material.

Potential Effects of Acute Overexposure, By Route Of Exposure:

This kit may contain materials of human or animal origin and should be considered as potentially capable of transmitting infectious diseases.

INHALATION:

Vapors, mists, sprays, or dusts of this kit can cause irritation to the respiratory tract.

CONTACT WITH SKIN or EYES:

Contact can cause eye damage or skin irritation.

SKIN ABSORPTION:

May be harmful if absorbed through skin.

INGESTION:

May cause nausea, diarrhea, vomiting, and headache, slight lowering of blood pressure, abdominal pain, and a general feeling of apprehension and un-wellness, as well as, irritation of the mouth, throat, and other issues of the gastro-intestinal system may occur. May cause **serious damage**.

INJECTION:

Accidental injection of this kit may cause burning, reddening, and swelling in addition to the wound. Symptoms of such exposure can include those described under "Inhalation", "Contact with Skin or Eyes," and "Ingestion".

Potential Effects of Chronic Exposure:

Chronic exposure may result in effects **similar to** those described for acute exposure. Frequent or long-term contact may dry out the skin resulting in dermatitis. Repeated exposure may result in allergic reactions.

Symptoms of Overexposure:

Symptoms of overexposure may include: throat irritation and coughing; dry, red, cracked skin; red irritated eyes; headache, drowsiness, dizziness, stupor; and convulsions.

Medical Conditions Aggravated by Exposure:

Persons with pre-existing skin disorders; eye problems or impaired respiratory system function can be more susceptible to health effects associated with overexposures to the chemicals within this kit.

Irritation/Sensitization

May cause sensitization by inhalation and skin contact.

Other Effects

None identified.

Carcinogenicity

No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP, OSHA or GHS

SECTION 12: ECOLOGICAL INFORMATION

Eco-toxicity

Toxic to fish and other water organisms.

Fresh Water Species

Ethyl Alcohol	96 Hr LC50 <i>Oncorhynchus mykiss</i> : 12.0 - 16.0 mg/L [static]; 96 Hr LC50 <i>Pimephales promelas</i> : >100 mg/L [static]; 96 Hr LC50 <i>Ceriodaphnia dubia</i> : 13400 - 15100 mg/L [flow-through]
Hydrogen Peroxide	96 Hr LC50 <i>Pimephales promelas</i> : 16.4 mg/L; 96 Hr LC50 <i>Lepomis macrochirus</i> : 18-56 mg/L [static]; 96 Hr LC50 <i>Oncorhynchus mykiss</i> : 10.0-32.0 mg/L [static]

Microtox

No information available.

Water Flea

Ethyl Alcohol	48 Hr LC50 <i>Daphnia magna</i> : 9268 - 14221 mg/L; 24 Hr EC50 <i>Daphnia magna</i> : 10800 mg/L; 48 Hr EC50 <i>Daphnia magna</i> : 2 mg/L [Static]
Hydrogen Peroxide	24 Hr EC50 <i>Daphnia magna</i> : 7.7 mg/L; 48 Hr EC50 <i>Daphnia magna</i> : 18 - 32 mg/L [Static]

Fresh Water Algae

Hydrogen Peroxide	72 Hr EC50 <i>Chlorella vulgaris</i> : 2.5 mg/L
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Persistence and Degradability, Mobility & Bioaccumulation

Data are not available for the components of this kit.

There is limited potential for the components within this kit to accumulate in plant or animal systems.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

Dispose of waste materials, unused components and contaminated packaging in compliance with country (i.e., Canada, EU) federal, state and local regulations. If unsure of the applicable requirements, contact the authorities for information.

WITH SPECIMEN:

Patient specimens and all materials **coming into contact with** them should be handled as if capable of transmitting infections and disposed of with proper precautions.

SECTION 14: TRANSPORT INFORMATION

U.S. Transportation (US DOT)

UN ID Number:	1170
Proper Shipping Name:	ETHANOL OR ETHYL ALCOHOL/ETHANOL OR ETHYL ALCOHOL SOLUTIONS
Hazard Class/Label:	3 - FLAMMABLE LIQUID/CORROSIVE
Subsidiary Risk:	None
Packaging Group:	II
Packaging Exception/Special Provisions:	150/173.150
Non-Bulk Pack/Bulk Pack:	202/242
Vessel Stow Req.:	A
NAERG Number:	127

Canadian Transportation (TDG)

UN ID Number:	1170
Proper Shipping Name:	ETHANOL OR ETHYL ALCOHOL/ETHANOL OR ETHYL ALCOHOL SOLUTIONS
Hazard Class/Label:	3 - FLAMMABLE LIQUID/CORROSIVE
Subsidiary Risk:	None
Packaging Group:	II
Packaging Exception/Special Provisions:	16
NAERG Number:	127

International Air Transportation (IATA)

UN ID Number:	1170
Proper Shipping Name:	ETHANOL OR ETHYL ALCOHOL/ETHANOL OR ETHYL ALCOHOL SOLUTIONS
Hazard Class/Label:	3 - FLAMMABLE LIQUID/CORROSIVE
Subsidiary Risk:	None
Packaging Group:	II
Packaging Exception/Special Provisions:	A3, A58
Packaging Note Cargo:	307
IATA ERG Code:	3L

International Maritime Dangerous Goods (IMDG)

UN ID Number:	1170
Proper Shipping Name:	ETHANOL OR ETHYL ALCOHOL/ETHANOL OR ETHYL ALCOHOL SOLUTIONS
Hazard Class/Label:	3 - FLAMMABLE LIQUID/CORROSIVE
Subsidiary Risk:	None
Packaging Group:	II
Packaging Exception/Special Provisions:	274
Marine Pollutant:	No

SECTION 15: REGULATORY INFORMATION



U.S. FEDERAL AND STATE REGULATIONS

U.S. SARA SECTION 311/312 FOR KIT: Not applicable

U.S. TSCA INVENTORY STATUS: Ethanol and Hydrogen Peroxide are listed on the TSCA Inventory.

OTHER U.S. FEDERAL REGULATIONS: Not applicable

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): NO INGREDIENTS LISTED

CANADIAN REGULATIONS:

CANADIAN DSL/NDSL INVENTORY STATUS: Hydrogen Peroxide & Ethanol are listed on the DSL Inventory.

CANADIAN WHMIS SYMBOLS: None Required

HMIS RATINGS

Health	2
Flammability	3
Physical Hazard	2
Protective Equipment	B

B: Safety Glasses & Gloves

EU LABELING CLASSIFICATION

Classification: Very Flammable.

Risk Phrases: R11 (Highly Flammable)

Safety Phrases: S16 (Keep away from sources of ignition - No smoking)
S7 (Keep container tightly closed)

SECTION 16: OTHER INFORMATION

Labeling: Hazard: warning: flammable, protect from heat.
Labeling: This package conforms to 49 CFR 173.4

Revision Date: January 22, 2018

This SDS has been updated to comply with GHS requirements

This SDS has been prepared in accordance with ANSI Z400.1 format. Every effort has been made to adhere to the hazard criteria and content requirements of the US OSHA Hazard Communication Standard, European Communities Safety Data Sheets Directive, Canadian Controlled Products Regulations, UK Chemical Hazard Information and Packaging Regulations, and UN Globally Harmonized System of Classification and Labeling of Chemicals.

The hazard ratings on this SDS are for appropriately trained workers using the Hazardous Materials Identification System (HMIS®) or a National Fire Protection Association (NFPA) 704 Program. The ratings are estimates and should be treated as such. The hazard rating scales range from (0) minimal hazards to (4) significant hazards or risks (Refer to Definitions of Terms at the end of this SDS). Chronic (long-term) health effects are indicated in the HMIS by an asterisk (*). HMIS is a registered trade and service mark of the NPCA. For details on HMIS ratings visit www.paint.org/hmis. For details on NFPA 704 visit www.nfpa.org.

DISCLAIMER: This information relates onto to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. The information and recommendations contained herein are to the best of the manufacturer's knowledge and belief accurate and reliable as of the date indicated. No representation warranty or guarantee, however, is made with regards to accuracy, reliability or completeness. Conditions of use of the material are under the control of the user; therefore, it is the user's responsibility to satisfy itself as to the suitability and completeness of such information for its own particular use. Appropriate warnings and safe-handling procedures should be provided to handlers and users.

