

Kit SDS Cover Sheet

Doc. ID: 64115-75: Rev. AJ Revised (year/month/day) 2011/11/23

Product Information				
Product Name	Hemoccult®SENSA® Developer			
Part Number	395035, 64000, 64115, 64130, 64151, 64152, 64200, 65940			
Series Name 64000 Series				
Additional Product Information If Developer expiration date is May 2012 or earlier, use Part A of SDS. If Developer expiration date is June 2012 or later, use Part B of the SDS. The US OSHA and WHMIS hazard classification in Section 3 does not apply for EU.				

Components	
	Description
	Hemoccult®SENSA®Developer (Part A) Hemoccult®SENSA®Developer (Part B)

Transport Information				
Shipping Information	Shipping Name	Alcohols, n.o.s. (Ethanol, Isopropanol solution)		
	UN/ID Number	1987		
	Packing Group	II		
IATA	Hazard Class	3 Flammable Liquids		
	Subsidiary Risk	None		
	Special Provisions	A3		
	IATA ERG Code	3L		
IMDG	Hazard Class	3 Flammable liquids		
	Subsidiary Risk	None		
	Special Provisions	274		
	Marine Pollutant	No		
US DOT	Hazard Class	3 Flammable liquid		
	Subsidiary Risk	None		
	Special Provisions	173.150		
	NAERG Number	127		
European ADR	ADR Classification	3 Flammable Liquids		
	Classification Code	F1		
	Subsidiary Risk	None		
Canadian TDG	PIN	1987		
	TDG Classification	3 Flammable Liquids		
	Subsidiary Risk	None		

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Transport Information (Continued)			
	Special Provisions	16	
	NAERG Number	127	



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Hemoccult[®]SENSA[®] Developer Doc. ID: 64115-75 AJ Revised (year/month/day) 2011/11/23

Section 1 Company and Product Identification

Hemoccult®SENSA®Developer (Part A) **Product Name**

Component of P/N 395035, 64000, 64115, 64130, 64151, 64152, 64200, 65940 **Part Number**

Product Use For In Vitro Diagnostic Use. See product literature for details.

Series Name 64000 Series

Manufacturer Beckman Coulter, Inc.

250 S. Kraemer Blvd Brea, CA 92821, U.S.A. Tel: 800-854-3633

E-mail: SDSNT@beckman.com

EC REP Address Beckman Coulter Ireland Inc.

> Mervue Business Park Mervue, Galway, Ireland Tel: 353 91 774068

Distributor and **Emergency Phone No.**

Refer to attached list, Document ID: 472050, for local distributor and emergency

phone numbers.

Chemtrec Emergency Tel No. U.S.A. 800-424-9300, International (001)

703-527-3887 (24 Hours)

	Section 2 Hazards Identification		
Emergency Overview			

mergency Overview Colorless; Clear; Liquid; Alcohol odor

Flammable liquid and vapor.

CNS depressant. Eye, skin and respiratory tract irritant. Harmful by inhalation, in contact with skin and if swallowed.

Potential sensitizer.

Physical Hazards Vapors of flammable ingredients are heavier than air and may travel to an ignition

source, ignite and flash back.

Potential Health May cause eye, skin and respiratory tract irritation and central nervous system **Effects Summary**

depression with headache, dizziness, nausea and unconsciousness.

Harmful by inhalation, in contact with skin and if swallowed.

Potential sensitizer.

See Section 11 Toxicological Information for more detailed health information.

Potential

Environmental Effects

Not available

Product Hazard Classifications EU: **US OSHA:** WHMIS: F;R11 Hazardous Exempt Xn;R20/21/22

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Section 2 Hazards Identification (Continued)

Label Elements

Classification as per EC Directives (1999/45/EC and 67/548 EEC) **Risk and Safety Phrases**

Highly flammable



R11 Highly flammable.

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

S16 Keep away from sources of ignition - No smoking.

S36/37 Wear suitable protective clothing and gloves.

Harmful



Other Hazard

None identified.

Section 3 Composition and Information on Ingredients				
Hazardous Ingredients:		Hazard Classification of Pure Ingredients		
Chemical Name	% by wt.	<u>EU</u>	<u>WHMIS</u>	US OSHA
Ethanol-methanol mix CAS # 8013-52-3 EINECS # Not available Index # Not available	<95	F;R11 Xn;R20/21/22- 68/20/21/22 Flam. Liq. 2;H225 Acute Tox. Oral 4;H302 Acute Tox. Skin 4;H312 Acute Tox. Inhal. 4;H332 STOT SE 2;H371	B2; D2B	Flammable Irritant Toxic
Ethyl Paraben CAS # 120-47-8 EINECS # 204-399-4 Index # Not available	< 5	No	D2B	Irritant Sensitizer
Hydrogen Peroxide CAS # 7722-84-1 EINECS # 231-765-0 Index # 008-003-00-9	<2	O;R5-8 C;R35-20/22 Ox. Liq. 1;H271 Acute Tox. Oral 4;H302 Acute Tox. Inhal. 4;H332 Eye Dam. 1;H318 STOT SE 3;H335 Skin Corr. 1A;H314	C; E	Oxidizer Corrosive

See Section 15 Regulatory Information for additional information on hazard classifications. See Section 16 for Risk Phrases and WHMIS Classification Description.

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	Section 4 First Aid Measures	
Inhalation	If product is inhaled, move exposed individual to fresh air. If individual is not breathing, begin artificial respiration immediately and obtain medical attention.	
Eye Contact	If product enters eyes, wash eyes gently under running water for 15 minutes or longer, making sure that the eyelids are held open. If pain or irritation occur, obtain medical attention.	
Skin Contact	In case of skin contact, flush with copious amounts of water for at least 15 minutes. In pain or irritation occur, obtain medical attention.	
Ingestion	If ingested, wash mouth out with water. If irritation or discomfort occurs, seek medical attention.	

Section 5 Fire Fighting Measures			
Flammable Properties	Flammable liquid and vapor.		
Extinguishing Media	Use extinguishing media suitable for surrounding fire.		
Special Fire and Explosion Hazards	Vapors form explosive mixtures with air. Vapors are heavier than air; fire may flash from ignition source back along vapor trail.		
Hazardous Combustion Products	Depending upon fire conditions, combustion products may range from irritants and asphyxiants to acutely toxic gases.		
Protective Equipment for Firefighters	Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.		

Section 6 Accidental Release Measures			
Personal Precautions Use good laboratory procedures; avoid eye and skin contact.			
Spill and Leak Procedures	Absorb spilled material with an appropriate inert, non-flammable absorbent and dispose according to local regulations.		
Environmental Precautions	Contain spill to prevent migration.		

Section 7 Handling and Storage			
Handling Precautions Use good laboratory procedures; avoid eye and skin contact.			
Recommended Storage To maintain efficacy, store according to the instructions in the product labeling. Keep away from incompatible material (see Section 10).			

Section 8 Exposure Controls and Personal Protection			
Exposure Limits			
US OSHA:			
Hydrogen Peroxide 1 ppm TWA; 1.4 mg/m3 TWA CAS # 7722-84-1			

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Section 8 Exposure Controls and Personal Protection (Continued)

ACGIH:

Hydrogen Peroxide CAS # 7722-84-1 1 ppm TWA

DFG MAK:

Hydrogen Peroxide CAS # 7722-84-1

0.5 ppm MAK; 0.71 mg/m3 MAK; 0.5 ppm Peak; 0.71 mg/m3 Peak

Ireland

Hydrogen Peroxide CAS # 7722-84-1

1 ppm TWA; 1.5 mg/m3 TWA; 2 ppm STEL; 3 mg/m3 STEL

NIOSH

Hydrogen Peroxide CAS # 7722-84-1

75 ppm IDLH; 1 ppm TWA; 1.4 mg/m3 TWA

Japan None established

Engineering ControlsNo special engineering controls are required. Use with good general ventilation.

Respiratory ProtectionUnder normal conditions, the use of this product should not require respiratory

protection. If overexposure should occur and ventilation is not adequate to maintain airborne concentrations at acceptable levels, the use of respiratory protection should

be evaluated by a qualified professional.

Eye Protection 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 Protection Impervious gloves, such as Nitrile or equivalent, should be worn to prevent skin

contact.

Refer U.S. OSHA 29 CFR 1910.138, European Standard EN374 or appropriate

government standards.

Section 9 Physical and Chemical Properties				
Physical State	Liquid	Vapor Density	1.6 (air=1)	
Color	Colorless	Specific Gravity (Water=1.0)	0.8 @20°C	
Transparency	Clear	Solubility		
Odor	Alcohol odor	Water	Soluble	
рH	Not available	Organic	Not available	
Freezing Point	Not available	Viscosity	Not available	
Boiling Point	78°C (172.4°F)	Coefficient of Water/Oil Distribution	Not available	
Flash Point	13°C (55.4°F)	Autoignition Temp.	Not available	
Evaporation Rate	Not available	Decomposition Temperature	Not available	

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Section 9 Physical and Chemical Properties (Continued)

Flammability (Solid, Not applicable **Percent Volatiles** Not available

Gas)

Flammable Limits Not available Vapor Pressure 40 mm Hg @25°C

Oxidizing Properties Not applicable **Odor Threshold** Not applicable

Section 10 Stability and Reactivity

Stability Stable under normal temperatures and pressures.

Hazardous Incompatibilities Strong acids

> Strong bases Strong oxidizers

Hazardous Decomposition

Products

No decomposition products posing significant hazards would be expected from this

product.

Conditions to Avoid Avoid contact with incompatible materials.

Section 11 Toxicological Information

Toxicity Data

for Hazardous Ingredients

Ethyl Paraben Oral LD50 Mouse 3 g/kg CAS # 120-47-8

Hydrogen Peroxide Inhalation LC50 Rat 2 mg/L 4 h; Oral LD50 Rat 801 mg/kg; Dermal LD50 Rat 4060 CÁS # 7722-84-1

Eye contact, ingestion, inhalation, and skin contact.

mg/kg; Dermal LD50 Rabbit 2000 mg/kg

Primary Routes

Acute Exposure

Potential Effects of

of Exposure

May cause irritation or burning of skin and eyes by contact. Inhalation and ingestion

of large volumes may cause burning of mucous membrane, respiratory irritation,

and central nervous system depression.

Harmful by inhalation, in contact with skin and if swallowed.

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 may include: throat irritation and coughing; dry, Symptoms of Overexposure

red, cracked skin; red irritated eyes; headache, drowsiness, dizziness, stupor;

convulsions and coma.

Conditions Aggravated

by Exposure

Individuals with eye and skin disorders may find these conditions aggravated by

exposure to this product.

Individuals with eye, kidney, liver and cardiovascular, nervous and respiratory system

disorders may find these conditions aggravated by exposure to this product.

Irritation/Sensitization May cause sensitization by inhalation and skin contact.

Carcinogenicity No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP,

OSHA or 67/548/EEC Annex I.

None identified. Mutagenicity

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Section 11 Toxicological Information (Continued)	
Reproductive Toxicity	Reproductive effects have been reported in animal studies.
Other Effects	None identified.

	Section 12 Ecological Information
Ecotoxicity	
Fresh Water Species	
Hydrogen Peroxide CAS # 7722-84-1	96 Hr LC50 Pimephales promelas: 16.4 mg/L; 96 Hr LC50 Lepomis macrochirus: 18-56 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 10.0-32.0 mg/L [static]
Microtox	No information available.
Water Flea	
Hydrogen Peroxide CAS # 7722-84-1	24 Hr EC50 Daphnia magna: 7.7 mg/L; 48 Hr EC50 Daphnia magna: 18 - 32 mg/L [Static]
Fresh Water Algae	
Hydrogen Peroxide CAS # 7722-84-1	72 Hr EC50 Chlorella vulgaris: 2.5 mg/L
Biodegradability	No information available.
Bioaccumulation	No information available.
Mobility	No information available.
Other Adverse Effects	No information available.

	Section 13 Disposal Considerations
Waste Disposal	Dispose of waste product, unused product and contaminated packaging in compliance with federal, state and local regulations. If unsure of the applicable requirements, contact the authorities for information.

Section 14 Transport Information		
Shipping Information	Shipping Name Alcohols, n.o.s. (Ethanol methanol s	
	UN/ID Number	1987
	Packing Group	II
IATA	Hazard Class	3 Flammable Liquids
	Subsidiary Risk	None
	Special Provisions	A3
	IATA ERG Code	3L
IMDG	Hazard Class	3 Flammable liquids
	Subsidiary Risk	None
	Special Provisions	274
	Marine Pollutant	No
US DOT	Hazard Class	3 ORM-D Consumer Commodity
	Subsidiary Risk	None

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Section 14 Transport Information (Continued)			
	Special Provisions	173.150	
	NAERG Number	127	
European ADR	ADR Classification	3 Flammable Liquids	
	Classification Code	F1	
	Subsidiary Risk	None	
Canadian TDG	PIN	1987	
	TDG Classification	3 Flammable Liquids	
	Subsidiary Risk	None	
	Special Provisions	16	
	NAERG Number	127	

Section 15 Regulatory Information

US Federal and State Regulations

SARA 313 No ingredients listed.

CERCLA RG's. 40 CFR 302.4

No ingredients listed.

California Proposition 65

No ingredients listed.

Massachusetts MSL

Hydrogen Peroxide is listed.

New Jersey Dept. of

Health RTK List

Hydrogen Peroxide is listed.

Pennsylvania RTK

Hydrogen Peroxide is listed.

Canada

This product is exempt from WHMIS label and SDS requirements.

Ingredients on Ingredient

Disclosure List:

Hydrogen Peroxide

Ingredients with unknown

Product is exempt

toxicological properties:

Some hazardous ingredients listed in Section 15 are below OSHAs and WHMIS' 1.0% w/w (0.1% for carcinogens) or EU's ingredient specific concentrations required for reporting in Section 3.

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Section 16 Other Information		
Beckman Coulter Safety Rating	Flammability (Section V): 3 Health (Section XI): 2 Reactivity with Water (Section X): 2 Contact (Section VIII): 2	Code 0=none 1=slight 2=caution 3=severe
Revision Changes	Update of product hazard classification for EU.	•
Hazard Class and Phrases Description From Section 3	C - Corrosive F - Highly flammable O - Oxidising Xn - Harmful	

R11 Highly flammable.

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R68/20/21/22 Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

R35 Causes severe burns.

R20/22 Harmful by inhalation and if swallowed.

R5 Heating may cause an explosion.

R8 Contact with combustible material may cause fire.

B2 - Flammable and Combustible Material: Flammable Liquid

C - Oxidizing Material

D2B - Poisonous and Infectious Material: Division 2 - Other Toxic Effects: Toxic (Chronic Toxic Effects)

D2B - Poisonous and Infectious Material: Division 2 - Other Toxic Effects: Toxic (Skin sensitization)

D2B - Poisonous and Infectious Material: Division 2 - Other Toxic Effects: Toxic (Skin or Eye Irritation)

E - Corrosive Material

Acute Tox. Skin 4 - Acute Toxicity Dermal, Category 4 Acute Tox. Inhal. 4 - Acute Toxicity Inhalation, Category 4

Acute Tox. Oral 4 - Acute Toxicity Oral, Category 4

Eye Dam. 1 - Eye Damage Category 1

Flam. Lig. 2 - Flammable Liquids, Category 2

Ox. Liq. 1 - Oxidizing Liquids Category 1

Skin Corr. 1A - Skin Corrosion Category 1A

STOT SE 2 - Specific Target Organ Toxicity Single Exposure Category 2 STOT SE 3 - Specific Target Organ Toxicity Single Exposure Category 3

H225 Highly flammable liquid and vapour.

H271 May cause fire or explosion; strong oxidiser.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H371 May cause damage to organs.

This SDS complies with EC Regulations 1907/2006 (REACH) and amendments.

For further information, please contact your local Beckman Coulter representative.



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Hemoccult[®]SENSA[®] Developer Doc. ID: 64115-75 AJ Revised (year/month/day) 2011/11/23

Section 1 Company and Product Identification

Product Name Hemoccult®SENSA®Developer (Part B)

Part Number Component of P/N 395035, 64000, 64115, 64130, 64151, 64152, 64200, 65940

Product Use For In Vitro Diagnostic Use. See product literature for details.

Series Name 64000 Series

Manufacturer Beckman Coulter, Inc.

250 S. Kraemer Blvd Brea, CA 92821, U.S.A. Tel: 800-854-3633

E-mail: SDSNT@beckman.com

EC REP Address Beckman Coulter Ireland Inc.

Mervue Business Park Mervue, Galway, Ireland Tel: 353 91 774068

Distributor and Emergency Phone No.

A

Refer to attached list, Document ID: 472050, for local distributor and emergency

phone numbers.

Chemtrec Emergency Tel No. U.S.A. 800-424-9300, International (001)

703-527-3887 (24 Hours)

Section 2 Hazards Identification

Emergency Overview Colorless; Clear; Liquid; Alcohol odor

Flammable liquid and vapor.

CNS depressant. Eye, skin and respiratory tract irritant.

Potential sensitizer.

Physical Hazards Vapors of flammable ingredients are heavier than air and may travel to an ignition

source, ignite and flash back.

Potential Health Effects Summary

May cause eve. skin and respiratory tract irritation and central nervous system

depression with headache, dizziness, nausea and unconsciousness.

Potential sensitizer.

See Section 11 Toxicological Information for more detailed health information.

Potential

Not available

Environmental Effects

Product Hazard Classifications

EU:

US OSHA:

WHMIS:

F;R11 Hazardous

S Exempt

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Section 2 Hazards Identification (Continued)

Label Elements

Classification as per EC Directives (1999/45/EC and 67/548 EEC) Risk and Safety Phrases

Highly flammable



R11 Highly flammable.

S16 Keep away from sources of ignition - No smoking.

S7 Keep container tightly closed.

Other Hazard

None identified.

Section 3 Composition and Information on Ingredients				
Hazardous Ingredients:		Hazard Classification of Pure Ingredients		
Chemical Name	% by wt.	<u>EU</u>	<u>WHMIS</u>	US OSHA
Ethyl Alcohol CAS # 64-17-5 EINECS # 200-578-6 Index # 603-002-00-5	<85	F;R11 Flam. Liq. 2;H225	B2; D2A; D2B	Flammable Irritant
Isopropyl Alcohol CAS # 67-63-0 EINECS # 200-661-7 Index # 603-117-00-0	<5	F;R11 Xi;R36-67 Flam. Liq. 2;H225 Eye Irrit. 2A;H319 STOT SE 3;H336	B2; D2B	Flammable Irritant
Ethyl Paraben CAS # 120-47-8 EINECS # 204-399-4 Index # Not available	< 5	No	D2B	Irritant Sensitizer
Hydrogen Peroxide CAS # 7722-84-1 EINECS # 231-765-0 Index # 008-003-00-9	< 2	O;R5-8 C;R35-20/22 Ox. Liq. 1;H271 Acute Tox. Oral 4;H302 Acute Tox. Inhal. 4;H332 Eye Dam. 1;H318 STOT SE 3;H335 Skin Corr. 1A;H314	C; E	Oxidizer Corrosive

See Section 15 Regulatory Information for additional information on hazard classifications. See Section 16 for Risk Phrases and WHMIS Classification Description.

Section 4 First Aid Measures

Inhalation

If product is inhaled, move exposed individual to fresh air. If individual is not breathing, begin artificial respiration immediately and obtain medical attention.

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Section 4 First Aid Measures (Continued)	
Eye Contact	If product enters eyes, wash eyes gently under running water for 15 minutes or longer, making sure that the eyelids are held open. If pain or irritation occur, obtain medical attention.
Skin Contact	In case of skin contact, flush with copious amounts of water for at least 15 minutes. If pain or irritation occur, obtain medical attention.
Ingestion	If ingested, wash mouth out with water. If irritation or discomfort occurs, seek medical attention.

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	Section 5 Fire Fighting Measures
Flammable Properties	Flammable liquid and vapor.
Extinguishing Media	Use extinguishing media suitable for surrounding fire.
Special Fire and Explosion Hazards	Vapors form explosive mixtures with air. Vapors are heavier than air; fire may flash from ignition source back along vapor trail.
Hazardous Combustion Products	Depending upon fire conditions, combustion products may range from irritants and asphyxiants to acutely toxic gases.
Protective Equipment for Firefighters	Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.

	Section 6 Accidental Release Measures
Personal Precautions	Use good laboratory procedures; avoid eye and skin contact.
Spill and Leak Procedures	Absorb spilled material with an appropriate inert, non-flammable absorbent and dispose according to local regulations.
Environmental Precautions	Contain spill to prevent migration.

	Section 7 Handling and Storage
Handling Precautions	Use good laboratory procedures; avoid eye and skin contact.
Recommended Storage Conditions	To maintain efficacy, store according to the instructions in the product labeling. Keep away from incompatible material (see Section 10).

Section	n 8 Exposure Controls and Personal Protection
Exposure Limits	
US OSHA:	
Ethyl Alcohol CAS # 64-17-5	1000 ppm TWA; 1900 mg/m3 TWA
Isopropyl Alcohol CAS # 67-63-0	400 ppm TWA; 980 mg/m3 TWA
Hydrogen Peroxide CAS # 7722-84-1	1 ppm TWA; 1.4 mg/m3 TWA

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Section 8 Exposure Controls and Personal Protection (Continued)

ACGIH:

Ethyl Alcohol 1000 ppm STEL CAS # 64-17-5

Isopropyl Alcohol

400 ppm STEL; 200 ppm TWA

CAS # 67-63-0

Hydrogen Peroxide 1 ppm TWA

CÁS # 7722-84-1

DFG MAK:

Ethyl Alcohol 500 ppm MAK; 960 mg/m3 MAK; 1000 ppm Peak; 1920 mg/m3 Peak

CAS # 64-17-5

Isopropyl Alcohol 200 ppm MAK; 500 mg/m3 MAK; 400 ppm Peak; 1000 mg/m3 Peak

CAS # 67-63-0

Hydrogen Peroxide 0.5 ppm MAK; 0.71 mg/m3 MAK; 0.5 ppm Peak; 0.71 mg/m3 Peak

CÁS # 7722-84-1

Ireland

Ethyl Alcohol 1000 ppm TWA; 1900 mg/m3 TWA

CAS # 64-17-5

Isopropyl Alcohol 200 ppm TWA; 400 ppm STEL; Potential for cutaneous absorption

CAS # 67-63-0

Hydrogen Peroxide 1 ppm TWA; 1.5 mg/m3 TWA; 2 ppm STEL; 3 mg/m3 STEL

CÁS # 7722-84-1

NIOSH

Ethyl Alcohol 3300 ppm IDLH (10% LEL); 1000 ppm TWA; 1900 mg/m3 TWA

CAS # 64-17-5

Isopropyl Alcohol 2000 ppm IDLH (10% LEL); 400 ppm TWA; 980 mg/m3 TWA; 500 ppm STEL; 1225

CAS # 67-63-0 mg/m3 STEL

Hydrogen Peroxide 75 ppm IDLH; 1 ppm TWA; 1.4 mg/m3 TWA

CAS # 7722-84-1

Japan None established

Engineering ControlsNo special engineering controls are required. Use with good general ventilation.

Respiratory ProtectionUnder normal conditions, the use of this product should not require respiratory

protection. If overexposure should occur and ventilation is not adequate to maintain airborne concentrations at acceptable levels, the use of respiratory protection should

be evaluated by a qualified professional.

Eye Protection 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 Protection Impervious gloves, such as Nitrile or equivalent, should be worn to prevent skin

contact.

Refer U.S. OSHA 29 CFR 1910.138, European Standard EN374 or appropriate

government standards.

Section 9 Physical and Chemical Properties				
Physical State	Liquid	Vapor Density	Not available	

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Section 9 Physical and Chemical Properties (Continued)			
Color	Colorless	Specific Gravity (Water=1.0)	0.9 @20°C
Transparency	Clear	Solubility	
Odor	Alcohol odor	Water	Soluble
pН	Not available	Organic	Not available
Freezing Point	Not available	Viscosity	Not available
Boiling Point	Not available	Coefficient of Water/Oil Distribution	Not available
Flash Point	15.5°C (59.9°F)	Autoignition Temp.	Not available
Evaporation Rate	Not available	Decomposition Temperature	Not available
Flammability (Solid, Gas)	Not applicable	Percent Volatiles	Not available
Flammable Limits	Not available	Vapor Pressure	Not available
Oxidizing Properties	Not applicable	Odor Threshold	Ethyl Alcohol 180 ppm geometric mean air odor threshold = (detectable); 100 ppm geometric mean air odor threshold = (recognizable) Isopropyl Alcohol 43 ppm geometric mean air odor threshold = (detectable); 19 ppm geometric mean air odor threshold = (recognizable)

Section 10 Stability and Reactivity		
Stability	Stable under normal temperatures and pressures.	
Hazardous Incompatibilities	Strong acids Strong bases Strong oxidizers	
Hazardous Decomposition Products	No decomposition products posing significant hazards would be expected from this product.	
Conditions to Avoid	Avoid contact with incompatible materials.	

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Section 11 Toxicological Information

Toxicity Data for Hazardous Ingredients

Ethyl Alcohol Oral LD50 Rat 7060 mg/kg; Inhalation LC50 Rat 124.7 mg/L 4 h

CAS # 64-17-5

Isopropyl Alcohol Inhalation LC50 Rat 72.6 mg/L 4 h; Oral LD50 Rat 4396 mg/kg; Dermal LD50 Rat 12800 mg/kg; Dermal LD50 Rabbit 12870 mg/kg

Ethyl Paraben Oral LD50 Mouse 3 g/kg CAS # 120-47-8

Hydrogen Peroxide Inhalation LC50 Rat 2 mg/L 4 h; Oral LD50 Rat 801 mg/kg; Dermal LD50 Rat 4060

CÁS # 7722-84-1 mg/kg; Dermal LD50 Rabbit 2000 mg/kg

Primary Routes of Exposure

Eye contact, ingestion, inhalation, and skin contact.

Potential Effects of Acute Exposure

May cause irritation or burning of skin and eyes by contact. Inhalation and ingestion of large volumes may cause burning of mucous membrane, respiratory irritation,

and central nervous system depression.

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;

convulsions and coma.

Conditions Aggravated

by Exposure

Individuals with eye and skin disorders may find these conditions aggravated by

exposure to this product.

Individuals with eye, kidney, liver and cardiovascular, nervous and respiratory system

disorders may find these conditions aggravated by exposure to this product.

Irritation/Sensitization May cause sensitization by inhalation and skin contact.

Carcinogenicity No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP,

OSHA or 67/548/EEC Annex I.

Mutagenicity None identified.

Reproductive Toxicity Reproductive effects have been reported in animal studies.

Other Effects None identified.

Section 12 Ecological Information

Ecotoxicity

Fresh Water Species

Ethyl Alcohol 96 Hr LC50 Oncorhynchus mykiss: 12.0 - 16.0 mL/L [static]; 96 Hr LC50 Pimephales promelas: >100 mg/L [static]; 96 Hr LC50 Pimephales promelas: 13400 - 15100

mg/L [flow-through]

Isopropyl Alcohol CAS # 67-63-0

Hydrogen Peroxide CAS # 7722-84-1 96 Hr LC50 Pimephales promelas: 9640 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 11130 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: >1400000 μg/L

96 Hr LC50 Pimephales promelas: 16.4 mg/L; 96 Hr LC50 Lepomis macrochirus: 18-56 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 10.0-32.0 mg/L [static]

Microtox No information available.

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Section 12 Ecological Information (Continued)

Water Flea

Ethyl Alcohol 48 Hr LC50 Daphnia magna: 9268 - 14221 mg/L; 24 Hr EC50 Daphnia magna:

CAS # 64-17-5 10800 mg/L; 48 Hr EC50 Daphnia magna: 2 mg/L [Static]

Isopropyl Alcohol CAS # 67-63-0 48 Hr EC50 Daphnia magna: 13299 mg/L

Hydrogen Peroxide 24 Hr EC50 Daphnia magna: 7.7 mg/L; 48 Hr EC50 Daphnia magna: 18 - 32 mg/L CÁS # 7722-84-1

[Static]

Fresh Water Algae

Isopropyl Alcohol 96 Hr EC50 Desmodesmus subspicatus: >1000 mg/L; 72 Hr EC50 Desmodesmus

CAS # 67-63-0 subspicatus: >1000 mg/L

72 Hr EC50 Chlorella vulgaris: 2.5 mg/L Hydrogen Peroxide CÁS # 7722-84-1

Biodegradability No information available. **Bioaccumulation** No information available. **Mobility** No information available. **Other Adverse Effects** No information available.

Section 13 Disposal Considerations

Dispose of waste product, unused product and contaminated packaging in **Waste Disposal**

compliance with federal, state and local regulations. If unsure of the applicable

requirements, contact the authorities for information.

Section 14 Transport Information		
Shipping Information	Shipping Name	Alcohols, n.o.s. (Ethanol, Isopropanol solution)
	UN/ID Number	1987
	Packing Group	II
IATA	Hazard Class	3 Flammable Liquids
	Subsidiary Risk	None
	Special Provisions	A3
	IATA ERG Code	3L
IMDG	Hazard Class	3 Flammable liquids
	Subsidiary Risk	None
	Special Provisions	274
	Marine Pollutant	No
US DOT	Hazard Class	3 ORM-D Consumer Commodity
	Subsidiary Risk	None
	Special Provisions	173.150
	NAERG Number	127
European ADR	ADR Classification	3 Flammable Liquids
	Classification Code	F1

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Section 14 Transport Information (Continued)			
	Subsidiary Risk None		
Canadian TDG	PIN	1987	
	TDG Classification	3 Flammable Liquids	
	Subsidiary Risk	None	
	Special Provisions	16	
	NAERG Number	127	

Section 15 Regulatory Information

US Federal and State Regulations

SARA 313 Isopropyl Alcohol is subject to reporting requirements of Section 313, Title III of

SARA.

CERCLA RG's, No ingredients listed.

40 CFR 302.4

California Proposition 65 Ethyl Alcohol has been identified by the State of California to cause reproductive

harm. The State of California has adopted a regulation which requires a warning be given to individual who may be exposed to chemicals identified by the State to cause cancer or reproductive harm. Accordingly, Beckman Coulter advises you of

the following warning:

WARNING: This product contains a chemical known to the State of California to

cause reproductive harm.

Massachusetts MSL Ethyl Alcohol is listed.

Isopropyl Alcohol is listed. Hydrogen Peroxide is listed.

Ethyl Alcohol is listed.

New Jersey Dept. of

Health RTK List Isopropyl Alcohol is listed.

Hydrogen Peroxide is listed.

Pennsylvania RTK Ethyl Alcohol is listed.

Isopropyl Alcohol is listed. Hydrogen Peroxide is listed.

EU Regulations

Water Hazard Class

WGK 1, low water endangering

(Germany)

Canada

This product is exempt from WHMIS label and SDS requirements.

PIN: 1987

Ingredients on Ingredient

Disclosure List: Isopropyl Alcohol

Hydrogen Peroxide

Ethyl Alcohol

Ingredients with unknown toxicological properties:

Product is exempt

Some hazardous ingredients listed in Section 15 are below OSHAs and WHMIS' 1.0% w/w (0.1% for carcinogens) or EU's ingredient specific concentrations required for reporting in Section 3.

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Section 16 Other Information			
Beckman Coulter Safety Rating	Flammability (Section V): 3 Health (Section XI): 2 Reactivity with Water (Section X): 2 Contact (Section VIII): 2	Code 0=none 1=slight 2=caution 3=severe	

Revision Changes

Update of product hazard classification for EU.

Hazard Class and Phrases Description From Section 3

C - Corrosive

F - Highly flammable

O - Oxidising

Xi - Irritant

R11 Highly flammable.

R35 Causes severe burns.

R20/22 Harmful by inhalation and if swallowed.

R36 Irritating to eyes.

R67 Vapours may cause drowsiness and dizziness.

R5 Heating may cause an explosion.

R8 Contact with combustible material may cause fire.

B2 - Flammable and Combustible Material: Flammable Liquid

C - Oxidizing Material

D2A - Poisonous and Infections Material: Division 2 - Other Toxic Effects: Very Toxic (Reproductive cell mutagenicity)

D2B - Poisonous and Infectious Material: Division 2 - Other Toxic Effects: Toxic (Skin sensitization)

D2B - Poisonous and Infectious Material: Division 2 - Other Toxic Effects: Toxic (Skin or Eye Irritation)

E - Corrosive Material

Acute Tox. Inhal. 4 - Acute Toxicity Inhalation, Category 4

Acute Tox. Oral 4 - Acute Toxicity Oral, Category 4

Eye Dam. 1 - Eye Damage Category 1
Eye Irrit. 2A - Eye Irritation Category 2A

Flam. Liq. 2 - Flammable Liquids, Category 2

Ox. Liq. 1 - Oxidizing Liquids Category 1

Skin Corr. 1A - Skin Corrosion Category 1A

STOT SE 3 - Specific Target Organ Toxicity Single Exposure Category 3

H225 Highly flammable liquid and vapour.

H271 May cause fire or explosion; strong oxidiser.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

Water Hazard Class (Germany): WGK 1, slightly water endangering (self classification)

This SDS complies with EC Regulations 1907/2006 (REACH) and amendments.

For further information, please contact your local Beckman Coulter representative.