

SAFETY DATA SHEETS

This SDS packet was issued with item:

075509708

N/A

MSDS NO. S385		MATERIAL SAFETY DATA SHEET		PAGE 1 OF 2	
SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION					
PARKELL, INC.		Company Telephone Number: (631) 249-1134			
300 Executive Drive		24-Hour Emergency Phone: InfoTrac 1-800-535-5053			
Edgewood, NY 11717					
PRODUCT NAME:		BluSep		NO: S385	
SECTION 2 – COMPOSITION INFORMATION ON INGREDIENTS					
HAZARDOUS COMPONENTS	CAS NUMBER	PEL ppm	TLV ppm	%	
Polyvinylpyrrolidone (PVP)	9003-39-8				
Polyethyleneglycol	25322-68-3				
Ethyl Alcohol	64-17-5	1000(TWA)	1000(STEL)		
SECTION 3 – HAZARDS IDENTIFICATION					
EMERGENCY OVERVIEW:		Highly flammable (F symbol) liquid. Irritating to eyes, respiratory system and skin. Excess exposure may be harmful or fatal.			
POTENTIAL HEALTH EFFECTS					
Eye	May cause irritation and possible corneal injury.				
Skin	May cause irritation, dry skin.				
Ingestion	Ingestion of larger amount may cause drunkenness, nausea, vomiting. Aspiration into lungs can produce severe lung damage and is a medical emergency.				
Inhalation	Inhalation of vapors can irritate the respiratory tract, causes sore throat, cough. Inhalation of high concentration may cause central nervous system effects characterized by headache, dizziness and unconsciousness. May cause liver and kidney damage.				
Effects of long-term or repeated exposure	Repeated or prolonged contact with skin may cause dermatitis. The substance may cause loss of appetite, nervousness, memory loss.				
SECTION 4 – FIRST-AID MEASURES					
4.1	Eye	Immediately flush with flowing water for at least 15 minutes. Get medical attention.			
4.2	Skin	Flush with soap and plenty of water. Get medical attention if irritation develops or persists.			
4.3	Ingestion	Promptly drink several glasses of water or milk to dilute. Get medical attention.			
4.4	Inhalation	Remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.			
SECTION 5 – FIRE-FIGHTING MEASURES					
5.0	Flammable properties	Highly flammable.	5.1	Flash point	13°C (ethanol)
5.2	Autoignition temp.	360°C (ethanol)	5.3	Flammable limit	LEL = 3 vol% (ethanol) UEL = 19 vol% (ethanol)
5.4	Suitable extinguishing media	Dry chemical, carbon dioxide, water spray or alcohol-resistant foam.			
5.5	Hazardous decomposition products	Toxic gases such as carbon monoxide may be released in a fire.			
5.6	Special protective equipment	During emergency conditions, over-exposure to thermal decomposition products may cause health hazard. Self-contained breathing apparatus should be worn.			
SECTION 6 – ACCIDENTAL RELEASE MEASURES					
6.1	Personal precaution	For skin protection wear impervious protective gloves and clothing. For eye protection use safety goggles or a full-face shield.			
6.2	Environmental precautions	May be hazardous to the environment. Special attention should be given to water.			
6.3	Methods for cleaning-up	In case material is released or spilled, remove all ignition sources, and ventilate the area of leak or spill. Collect spilled liquid in sealable containers as much as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Do NOT wash away into sewer.			
SECTION 7 – HANDLING AND STORAGE					
7.1	Handling:	Observe normal warehouse handling procedures. Protect against physical damages. Use in a well-ventilated place away from all ignition sources.			
7.2	Storage:	Store in a cool, dry and dark well-ventilated place. Store away from sources of ignition. Take precautionary measures against static discharge.			
SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION					

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8.2 Personal protection:					
Respiratory protection		None required during normal use of this product.			
Hand protection		Use impervious protective gloves to prevent skin contact.			
Eye protection		Use safety glasses.			
Skin protection		Use impervious protective gloves to prevent skin contact.			
SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES					
9.1 Appearance	Colorless, highly volatile liquid	9.2 Odor	Fragrant, alcohol odor		
9.3 pH	Not applicable	9.4 Vapor density	1.6 (Air=1)		
9.5 Boiling point	78°C	9.6 Solubility in water:	Miscible		
9.7 Specific gravity	0.79 (20°C)				
SECTION 10 – STABILITY AND REACTIVITY					
10.1 Stability	Stable under ordinary conditions of use and storage.				
10.2 Conditions to avoid	Heat beyond 30°C. Direct sunlight. Ignition sources.				
10.3 Incompatibility (materials to avoid)	Strong acids, oxidizing agents, chloroform, alkalis.				
10.4 Hazardous decomposition products	Carbon dioxide and carbon monoxide may form when heated to decomposition.				
10.5 Hazardous polymerization	Will not occur.				
SECTION 11 – TOXICOLOGICAL INFORMATION					
11.1 Health hazards (immediate, delayed, acute, chronic)	Ingestion of larger amount may cause drunkenness, nausea, vomiting.				
11.2 Toxicity	TD ₀₁ (Oral - man):	50 mg/kg (ethanol)			
	LD ₅₀ (Oral - rat):	7,060 mg/kg (ethanol)			
11.3 Mutagenicity	Not known				
11.4 Carcinogenicity	(ACGIH) No,	(IARC) No (Group 3: PVP)			
SECTION 12 – ECOLOGICAL INFORMATION					
12.1 General	This substance may be hazardous to the environment; special attention should be given to water.				
12.2 Mobility	When released, this substance is expected to evaporate quickly or may leach into groundwater.				
12.3 Degradability	Expected to readily biodegrade.				
12.4 Accumulation	Not expected to significantly bioaccumulate.				
12.5 Ecotoxicity	Not known. (Not significantly toxic.)				
12.6 Other adverse effects	Not known				
SECTION 13 – DISPOSABLE CONSIDERATIONS					
13.1 Danger in disposal	Should be handled as hazardous waste.				
13.2 Disposal method	(Consult federal, state, and local regulations): Do not empty into sewer. This substance should be handled as hazardous waste and sent to an approved incinerator.				
SECTION 14 – TRANSPORT INFORMATION (NOT MEANT TO BE ALL-INCLUSIVE)					
14.1 Precautions for transport	Flammable liquid				
14.2 UN	UN 1170 – (ethanol)				
14.3 IMDG	Class 3, PG II				
14.4 ICAO/IATA	Class 3, PG II				
SECTION 15 – REGULATORY INFORMATION (NOT MEANT TO BE ALL-INCLUSIVE)					
15.1 RTECS	ethanol	AL315000			
	polyvinylpyrrolidone	TR937000			
	polyethyleneglycol	ZD246530			
5.2 EU Classification	F: R11 (Highly flammable)				
	S7 (Keep container tightly closed.)				
	S16 (Keep away from sources of ignition – no smoking.)				
SECTION 16 – OTHER INFORMATION					
16.1	NFPA CODES: HEALTH -1 FLAMMABILITY -3 REACTIVITY -0				
16.2	WORK/HYGIENIC PRACTICES: Wash hands before eating, drinking or smoking.				
16.3	Prepared / Revised September 7, 2012 by Parkell, Inc.				
16.4	This Product is for dental professional use only.				
16.5	For additional non-emergency health, safety, or environmental information, telephone (800) 243-7446, or write to: Manager, Quality Assurance and Regulatory Affairs, Parkell Inc., 300 Executive Dr., Edgewood, NY 11717. The information contained herein is based on the data available to us and is believed to be correct. However, Parkell makes no warranty, express or implied, regarding the accuracy of these data or the results to be obtained from the use thereof. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.				



Safety Data Sheet

Issue Date: 20-May-2014

Revision Date: 13-Jan-2015

Version 1

1. IDENTIFICATION

Product Identifier

Product Name BluSep™

Other means of identification

SDS # S385

UN/ID No UN1170

Recommended use of the chemical and restrictions on use

Recommended Use Separating Agent.

Details of the supplier of the safety data sheet

Supplier Address

Parkell, Inc.
300 Executive Drive
Edgewood, NY 11717

Emergency Telephone Number

Company Phone Number (631) 249-1134
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Colorless, highly volatile liquid

Physical State Liquid

Odor Fragrant, alcohol odor

Classification

Aspiration toxicity	Category 1
Flammable Liquids	Category 2

Signal Word

Danger

Hazard Statements

May be fatal if swallowed and enters airways
Highly flammable liquid and vapor



Precautionary Statements - Prevention

Use personal protective equipment as required
Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof equipment
Use only non-sparking tools
Take precautionary measures against static discharge

Precautionary Statements - Response

IF ON SKIN: Wash with plenty of soap and water
Take off contaminated clothing and wash it before reuse
If skin irritation occurs: Get medical advice/attention
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Do not induce vomiting
IN CASE OF FIRE: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store locked up
Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other Hazards

Toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Ethyl Alcohol	64-17-5	Proprietary

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES**First Aid Measures**

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Skin Contact	Wash skin with soap and water. Take off contaminated clothing and wash it before reuse. Get medical attention if irritation occurs.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	Do not induce vomiting. Promptly drink several glasses of water or milk to dilute. Immediately call a poison center or doctor/physician.

Most important symptoms and effects

Symptoms	May cause eye and skin irritation. Ingestion of larger amounts may cause drunkenness, nausea, and vomiting. Aspiration into lungs can produce severe lung damage and is a medical emergency. Inhalation of vapors can irritate the respiratory tract, causing sore throat and coughing. Inhalation of high concentrations may cause central nervous system effects characterized by headache, dizziness, and unconsciousness. May cause liver and kidney damage. Repeated or prolonged contact with skin may cause dermatitis. Product may also cause loss of appetite, nervousness, and memory loss.
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Indication of any immediate medical attention and special treatment needed**Notes to Physician**

Treat symptomatically.

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**Dry chemical. Carbon dioxide (CO₂). Water spray (fog). Alcohol resistant foam.**Unsuitable Extinguishing Media** Not determined.**Specific Hazards Arising from the Chemical**

Highly flammable liquid and vapor. Combustion products may be toxic.

Hazardous Combustion Products Carbon monoxide.**Sensitivity to Static Discharge** Take precautionary measures against static discharge.**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures****Personal Precautions**

Use personal protection recommended in Section 8.

For Emergency Responders

Remove all sources of ignition. Ventilate the area.

Environmental Precautions

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS.

Methods and material for containment and cleaning up**Methods for Containment**

Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up

Contain and collect with an inert absorbent and place into an appropriate container for disposal. Do not flush to sewer.

7. HANDLING AND STORAGE**Precautions for safe handling****Advice on Safe Handling**

Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Use only in well-ventilated areas. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion proof equipment. Use only non-sparking tools. Take precautionary measures against static discharges. Protect container from physical damage.

Conditions for safe storage, including any incompatibilities**Storage Conditions**

Keep container tightly closed and store in a cool, dry and well-ventilated place. Store away from ignition sources and incompatible materials. Store locked up.

Incompatible Materials

Strong acids. Strong oxidizing agents. Chloroform. Alkalis.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethyl Alcohol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m ³ (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m ³	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m ³

Appropriate engineering controls

Engineering Controls Ensure adequate ventilation, especially in confined areas. Eyewash stations. Showers.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses.

Skin and Body Protection Impervious protective gloves.

Respiratory Protection No protection is ordinarily required under normal conditions of use and with adequate ventilation.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid	Odor	Fragrant, alcohol odor
Appearance	Colorless, highly volatile liquid	Odor Threshold	Not determined
Color	Colorless		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	Not applicable	
Melting Point/Freezing Point	Not determined	
Boiling Point/Boiling Range	78 °C / 172 °F	
Flash Point	13 °C / 55 °F	(ethanol)
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	Not determined	
Upper Flammability Limits	19% (ethanol)	
Lower Flammability Limit	3% (ethanol)	
Vapor Pressure	Not determined	
Vapor Density	1.6	(Air=1)
Specific Gravity	0.79	@ 20°C (68°F)
Water Solubility	Miscible in water	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Auto-ignition Temperature	360 °C / 680 °F	(ethanol)
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under ordinary conditions of use and storage.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to Avoid

Avoid heat beyond 30°C (86°F), direct sunlight, and ignition sources.

Incompatible Materials

Strong acids. Strong oxidizing agents. Chloroform. Alkalis.

Hazardous Decomposition Products

Carbon monoxide. Carbon dioxide (CO₂).

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact

Avoid contact with eyes.

Skin Contact

Avoid contact with skin.

Inhalation

Avoid breathing vapors or mists.

Ingestion

May be fatal if swallowed and enters airways.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Polyethylene glycol 25322-68-3	= 28 g/kg (Rat)	> 20 g/kg (Rabbit)	-
Polyvinylpyrrolidone 9003-39-8	= 100 g/kg (Rat)	-	-
Ethyl Alcohol 64-17-5	= 7060 mg/kg (Rat)	-	= 124.7 mg/L (Rat) 4 h

Information on physical, chemical and toxicological effects

Symptoms

Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Carcinogenicity**

The ingredient in this product is only classified as a carcinogen when consumed as an alcoholic beverage in long-term studies.

Chemical Name	ACGIH	IARC	NTP	OSHA
Polyvinylpyrrolidone 9003-39-8		Group 3		
Ethyl Alcohol 64-17-5	A3	Group 1	Known	X

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 3 IARC components are "not classifiable as human carcinogens"

NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Aspiration hazard

May be fatal if swallowed and enters airways.

Numerical measures of toxicity

Not determined

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Toxic to aquatic life with long lasting effects.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Polyethylene glycol 25322-68-3		5000: 24 h Carassius auratus mg/L LC50		
Ethyl Alcohol 64-17-5		12.0 - 16.0: 96 h Oncorhynchus mykiss mL/L LC50 static 100: 96 h Pimephales promelas mg/L LC50 static 13400 - 15100: 96 h Pimephales promelas mg/L LC50 flow-through	EC50 = 34634 mg/L 30 min EC50 = 35470 mg/L 5 min	9268 - 14221: 48 h Daphnia magna mg/L LC50 10800: 24 h Daphnia magna mg/L EC50 2: 48 h Daphnia magna mg/L EC50 Static

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Chemical Name	Partition Coefficient
Ethyl Alcohol 64-17-5	-0.32

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated Packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.

California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Ethyl Alcohol 64-17-5	Toxic Ignitable

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

UN/ID No	UN1170
Proper Shipping Name	Ethanol solution
Hazard Class	3
Packing Group	II

IATA

UN/ID No	UN1170
Proper Shipping Name	Ethanol solution
Hazard Class	3
Packing Group	II

IMDG

UN/ID No	UN1170
Proper Shipping Name	Ethanol solution
Hazard Class	3
Packing Group	II
Marine Pollutant	This material may meet the definition of a marine pollutant

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Ethyl Alcohol	Present	X		Present		Present	X	Present	X	X

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

US Federal Regulations**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

US State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Ethyl Alcohol - 64-17-5	Carcinogen Developmental

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Ethyl Alcohol 64-17-5	X	X	X

16. OTHER INFORMATION**NFPA****Health Hazards**

1

Flammability

3

Instability

0

Special Hazards

Not determined

HMIS**Health Hazards**

Not determined

Flammability

Not determined

Physical Hazards

Not determined

Personal Protection

Not determined

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Revision Date:

13-Jan-2015

Revision Note:

New format

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet