Safety Data Sheet

Issue Date 08/16/2002

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name **Black Bull Concrete Sealer**

Other means of identification

SDS # / Grade CP- 1520 (5 Gal) and CP-1520-1 (1 Gal)

UN/ID No. UN 1993

Recommended Use of the Chemical and Restrictions on Use

Relevant identified use(s) - Sealing and protecting concrete and aggregate surfaces.

Details of the Supplier of the Safety Data Sheet

Supplier

Perk Products & Chemical Co.
42 Industry Street
Nashville, TN 37210
www.Perk-Products.com

Emergency telephone number

Company Phone: (615) 242-6157

Emergency Phone: (800) 424-9300 – CHEMTREC

SECTION 2: HAZARDS IDENTIFICATION

Classification

Skin Corrosion / Irritation	**Category 2**
Serious Eye Damage / Eye Irritation	**Category 2**
Germ Cell Mutagenicity	**Category 1B**
Carcinogenicity	**Category 1B**
Specific target organ toxicity (single exposure)	**Category 3**
Aspiration Toxicity	**Category 1**
Flammable Liquids	**Category 3**

Signal Word

DANGER

Hazard Statements

Causes Skin Irritation
Causes serious eye irritation
Carcinogenic
May cause respiratory irritation. May cause drowsiness or dizziness
May be fatal if swallowed and enters airways
Flammable liquid and vapor

Appearance: Clear, colorless liquid **Physical State:** Liquid **Odor:** Moderate aromatic

Precautionary Statements - Prevention
Obtain special instructions before use; do not use until all safety precautions have been read and understood
Use personal protective equipment as required
Product is combustible
Do not ingest
Wear eye/face protection
Wash skin thoroughly with soap and water
Avoid contact with eyes and prolonged contact with skin
Vapors harmful, avoid breathing of vapor or mist
Use in well ventilated areas
Keep away from heat/open flame/other heat sources. –No smoking
Keep container closed tightly
Ground/bond container and receiving equipment
Use explosion-proof equipment
Use only non-sparking tools
Take precautionary measures against static spark
Keep cool

Precautionary Statements - Response
If exposed or concerned: Seek medical advice/attention
IF IN EYES: Flush with clan water for at least 10-15 minutes. Call a physician.
IF ON SKIN: Wash thoroughly with soap and water. If irritation develops, seek medical attention.
IF INDUCED INTERNALLY: Do not induce vomiting. Call a physician or poison control center immediately.
IF INHALED: Move to fresh air and avoid breathing fumes. Contact a physician if breathing becomes difficult.

Precautionary Statements – Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements – Disposal
Dispose of contents/container to an approved waste disposal plant

Hazards Not Otherwise Classified (HNOC)
May be harmful in contact with skin

Other Hazards
Toxic to aquatic life with long lasting effects
Toxic to aquatic life

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Copolymer of Styrene and 2-Ethylhexylacrylate	25153-46-2	<50
Petroleum naphtha, light aromatic	64742-95-6	<50
1,2,4 Trimethylbenzene	95-63-6	5-25
1,3,5 Trimethylbenzene	108-67-8	0-6
Xylene	1330-20-7	0-2
Cumene	98-82-8	0-2
Styrene	100-42-5	0-1

SECTION 4: FIRST AID MEASURES

First Aid Measures

General Advice If exposed or concerned: Get medical advice/attention

Eye Contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation occurs.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Get medical attention if irritation develops or persists.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. Get medical attention immediately.

Ingestion DO NOT induce vomiting because of danger of aspirating liquid into lungs. If spontaneous vomiting occurs, keep head below hips to prevent aspiration and monitor breathing. Call a physician or poison control center immediately.

Most Important Symptoms and Effects, both Acute and Delayed

Symptoms May cause dermatitis or irritation in some individuals upon prolonged contact. Eyes may have symptoms of redness, itching, irritation and watering from overexposure. Aspiration hazard: if swallowed can enter lungs and cause damage. May cause irritation to the mucous membranes and upper respiratory tract. Prolonged breathing of vapors may cause nausea, headache, weakness and/or dizziness.

Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians Treat symptomatically

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Water spray (fog). Dry chemical. Alcohol resistant foam. AFFF. Carbon dioxide (CO2)

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical
Cool surrounding equipment, fire-exposed containers, and structures with water. Vapors may form explosive mistures with air. Vapors may travel to source of ignition and flash back.

Hazardous Combustion Products Carbon monoxide. Carbon dioxide (CO2). Reactive hydrocarbons. Irritating vapors.
Sensitivity to Mechanical Impact Sensitive to shock.
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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions Use personal protective equipment as required. Remove all sources of ignition. Avoid breathing vapors. Ventilate affected area.

Environmental Precautions See Section 12 for additional ecological information

Methods and Material for Containment and Cleaning Up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Absorb spillage with non-combustible, absorbent material. Clean up in accordance with all applicable regulations.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Advice on Safe Handling Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protection recommended in Section 8. Wash face, hands, and any exposed skin thoroughly after handling. Avoid breathing vapors or mists. Use only with adequate ventilation. Keep away from heat/sparks/open flames/hot surfaces. –No smoking.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

Packing Materials Do not transfer to unmarked containers.

Incompatible Materials Strong oxidizing agents.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
1,2,4 Trimethylbenzene 95-63-6	-	-	TWA: 25ppm TWA: 125 mg/m^3
1,3,5 Trimethylbenzene 108-67-8	-	-	TWA: 25ppm TWA: 125 mg/m^3
Xylene 1330-20-7	STEL: 150ppm TWA: 100ppm	TWA: 100ppm TWA: 435 mg/m^3 (vacated) TWA: 100ppm (vacated) TWA: 435 mg/m^3 (vacated) STEL: 150ppm (vacated) STEL: 655 mg/m^3	-
Cumene 98-82-8	TWA: 50ppm	TWA: 50ppm TWA: 245 mg/m^3 (vacated) TWA: 50ppm (vacated) TWA: 245 mg/m^3 (vacated) S* S*	IDLH: 900ppm TWA: 50ppm TWA: 245mg/ m^3
Styrene 100-42-5	STEL: 40ppm TWA: 20ppm	TWA: 100ppm (vacated) TWA: 50ppm (vacated) TWA: 215 mg/m^3 (vacated) STEL: 100ppm (vacated) STEL: 425 mg/m^3 Ceiling: 200ppm	IDLH: 700ppm TWA: 50ppm TWA: 215mg/m^3 STEL: 100ppm STEL: 425mg/m^3

Appropriate Engineering Controls

Engineering Controls Apply technical measures to comply with the occupational exposure limits. Eyewash stations.

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection Wear approved safety goggles

Skin and Body Protection Chemical resistant, impermeable gloves. Use protective clothing chemically resistant to this material.

Respiratory Protection	Ensure adequate ventilation, especially in confined areas. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	Liquid	**Odor**	Moderate aromatic
Appearance	Clear, colorless liquid	**Odor Threshold**	Not determined
Color	Clear		

Property	**Values**	**Remarks °Method**
pH	Not Determined	
Melting Point/Freezing Point	Not Determined	
Boiling Point/Boiling Range	160-174 °C / 320-345 °F	
Flash Point	37-46 °C / 100-115 °F	Tag Closed Cup
Evaporation Rate	0.1	(butyl acetate = 1) @ 25°C
Flammability (Solid, Gas)	n/a liquid	
Upper Flammability Limits	Unknown	
Lower Flammability Limit	1% (approximate)	
Vapor Pressure	<10 mm Hg	@ 25°C (77°F)
Vapor Density	3.5	(Air=1)
Specific Gravity	0.95	(1=Water) @ 15°C
Water Solubility	Negligible	
Solubility in Other Solvents	Not Determined	
Partition Coefficient	Not Determined	
Autoignition Temperature	471 °C / 880 °F	
Decomposition Temperature	Not Determined	
Kinematic Viscosity	Not Determined	
Dynamic Viscosity	Not Determined	
Explosive Properties	Not Determined	
Oxidizing Properties	Not Determined	

SECTION 10: STABILITY AND REACTIVITY

Reactivity
Not reactive under normal conditions.

Chemical Stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
None under normal processing.

Conditions to Avoid
Avoid heat, sparks, open flames and other ignition sources.

Incompatible Materials Strong Oxidizing Agents.

Hazardous Decomposition Products
Carbon Monoxide.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Product Information

Eye Contact Causes serious eye irritation

Skin Contact Causes skin irritation. May be harmful in contact with skin.

Inhalation Avoid breathing vapors or mists.

Ingestion Do not taste or swallow.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Petroleum naptha, light aromatic 64742-95-6	=8400 mg/kg (Rat)	>2000 mg/kg (Rabbit)	>5.2 mg/L (Rat) 4 h = 3400ppm (Rat)
1,2,4 Trimethylbenzene 95-63-6	=3400 mg/kg (Rat)	>3160 mg/kg (Rabbit)	= 18 g/m^3 (Rat) 4 h
1,3,5 Trimethylbenzene 108-67-8	=5000 mg/kg (Rat)	-	= 24 g/m^3 (Rat) 4 h
Xylene 1330-20-7	=4300 mg/kg (Rat)	>1700 mg/kg (Rabbit)	= 5000ppm (Rat) 4 h = 47635 Mg/L (Rat) 4 h
Cumene 98-82-8	=1400 mg/kg (Rat)	>3160 mg/kg (Rabbit)	=39000 mg/m^3 (Rat) 4 h
Styrene 100-42-5	=1000 mg/kg (Rat)	-	=11.8 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

Germ Cell Mutagenicity May cause genetic defects.

Carcinogenicity May cause cancer.

Chemical Name	ACHIH	IARC	NTP	OSHA
Xylene 1330-20-7		Group 3		
Cumene 98-82-8		Group 2B		X
Styrene 100-42-5		Group 2B	Reasonably Anticipated	X

Legend

IARC (International Agency for Research on Cancer)
Group 2B – Possibly Carcinogenci to Humans
Group 3 IARC components are "not classifiable as human carcinogens"
NTP (National Toxicology Program)
Reasonably Anticipated – Reasonably Anticipated to be a Human Carcinogen
OSHA (Occupational Safety and Health Administration of the US Department of Labor)
X - Present

STOT – Single Exposure May cause respiratory irritation. May cause drowsiness or dizziness.

Aspiration Hazard May be fatal if swallowed and enters airways.

Numerical Measures of Toxicity
Not determined

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity
Toxic to aquatic organisms. Toxic to aquatic life with long lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Petroleum naphtha, light aromatic 64742-95-6		9.22: 96 h Oncorhynchus Mykiss mg/L LC50		6.14: 48 h Daphnia magma mg/L LC50
1,2,4 Trimethylbenzene 95-63-6		7.19-8.28: 96 h Pimephales promelas mg/L LC50 flow-through		6.14: 48 h Daphnia magma mg/L LC50
1,3,5- Trimethylbenzene 108-67-8		3.48: 96 h Pimephales Promelas mg/L LC50		50: 24 h Daphnia magma mg/L LC50
Xylene 1330-20-7		13.4: 96 h Pimephales promelas mg/L LC50 flow-through 2.661 – 4.093: 96 h Oncorhynchus mykiss mg/L LC50 static 13.5 – 17.3: 96 h Oncorhynchus mykiss mg/L LC50 13.1 – 16.5: 96 h lepomis macrochirus mg/L LC50 flow-through 19:96 h lepomis macrochirus mg/L LC50 7.711-9.591: 96 h lepomis macrochirus mg/L LC50 static 23.53 – 29.97: 96 h Pimephales promelas mg/L LC50 static 780: 96 h cyprinus carpio mg/L LC50 30.26 – 40.75: 96 h Poecilia reticulate mg/L LC50 static	EC50 = 0.0084 mg/L 24 h	3.82: 48 h water flea mg/L EC50 0.6: 48 h Gammarus Lacustris mg/L LC50
Cumene 98-82-8	2.6: 72 h Pseudokirchneriella Subcapitata mg/L EC50	6.04-6.61: 96h h Pimephales promelas mg/L LC50 flow-through 4.8: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 2.7: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 5.1: 96 h Poecilia reticulate mg/L LC50 semi-static	EC50 = 0.89 mg/L 5 min EC50 =1.10 mg/L 15 min EC50 =1.48 mg/L 30 min EC50 =172 mg/L 24 h	0.6:48 h Daphnia magna Mg/L EC50 7.9 – 14.1: 48 h Daphnia magna mg/L EC50 Static
Styrene 100-42-5	1.4: 72 h Pseudokirchneriella Subcapitata mg/L EC50 0.72: 96 h h Pseudokirchneriella Subcapitata mg/L EC50 0.46 - 4.3: 72 h Pseudokirchneriella subcapitata mg/L EC50 static 0.15 – 3.2: 96 h Pseudokirchneriella subcapitata mg/L EC50 static	3.24-4.99: 96 h Pimephales promelas mg/L LC50 flow-through 19.03-33.53: 96 h Lepomis macrochirus mg/L LC 50 static 6.75-14.5: 96 h Pimephals promelas mg/L LC50 static 58.75-95.32: 96 h Poecilia Reticulate mg/L LC50 static	EC50 = 5.4 mg/L 5 min	3.3 – 7.4: 48 h Daphnia magma mg/L LC50

Persistence and Degradability
Not determined

Bioaccumulation
Not determined

Mobility

Chemical Name	Partition Coefficient
1,2,4 Trimethylbenzene 95-63-6	3.63
Xylene 1330-20-7	2.77 – 3.15
Cumene 98-82-8	3.55
Styrene 100-42-5	2.95

Other Adverse Effects
Not determined

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Waste Do not throw used container in fire. Disposal should be in accordance with local/state/national regulations.

Contaminated Packaging Do not throw used container in fire. Disposal should be in accordance with local/state/national regulations.

Chemical Name	RCRA	RCRA – Basis for Listing	RCRA – D Series Wastes	RCRA – U Series Wastes
Xylene 1330-20-7		Included in waste stream: F039		U239
Cumene 98-82-8				U055

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Xylene 1330-20-7	Toxic Ignitable
Cumene 98-82-8	Toxic Ignitable
Styrene 100-42-5	Toxic Ignitable

SECTION 14: TRANSPORTATION INFORMATION

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances. This may be non-regulated in non-bulk packages for DOT ground only per 49 CFR 173.150(f)\

DOT
UN/ID No UN1993
Proper Shipping Name Flammable liquid, n.o.s (Light aromatic petroleum naphtha)
Hazard Class 3
Packing Group III

IATA
UN/ID No UN1993
Proper Shipping Name Flammable liquid, n.o.s (Light aromatic petroleum naphtha)
Hazard Class 3
Packing Group III

IMDG
UN/ID No UN1993
Proper Shipping Name Flammable liquid, n.o.s (Light aromatic petroleum naphtha)
Hazard Class 3
Packing Group III

SECTION 15: REGULATORY INFORMATION

International Inventories

TSCA Listed

Legend:

TSCA – *United States Toxic Substances Control Act Section 8(b) Inventory*
DSL/NDSL - *Canadian Domestic Substances List/Non-Domestic Substances List*
EINECS/ELLINCS – *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*

US Federal Regulations

CERCLA

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Xylene 1330-20-7	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ
Cumene 98-82-8	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
Styrene 100-42-5	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

SARA 311/312 Hazard Categories

Chronic Health Hazard Yes
Fire Hazard Yes

SARA 313

Chemical Name	CAS No	Weight - %	SARA 313 – Threshold Values %
Xylene 1330-20-7	1330-20-7	5-25	1.0
Cumene 98-82-8	98-82-8	0-2	1.0
Styrene 100-42-5	100-42-5	0-2	1.0
1,2,4 Trimethylbenzene – 95-63-6	95-63-6	0.1	1.0

CWA (Clean Water Act)

Component	CWA – Reportable Quantities	CWA – Toxic Pollutants	CWA – Priority Pollutants	CWA – Hazardous Substances
Xylene 1330-20-7	100 lb			X
Styrene 100-42-5	1000 lb			X

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Cumene 98-82-8	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Xylene 1330-20-7	X	X	X
Cumene 98-82-8		X	
Styrene 100-42-5	X	X	X
1,2,4 Trimethylbenzene 95-63-6	X	X	X
1,2,5 – Trimethylbenzene 108-67-8	X	X	X

SECTION 16: OTHER INFORMATION

NFPA	**Health Hazards**	**Flammability**	**Instability**	**Special Hazards**
	2	2	0	Not determined
HMIS	**Health Hazards**	**Flammability**	**Instability**	**Personal Protection**
	2	2	0	Not determined

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Disclaimer/Statement of Liability:

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End of Safety Data Sheet