



SAFETY DATA SHEET

Section 1: Identification

Product Name: 4Bell KO™

Other Name/Use and Restrictions: Patented, non-toxic, non-corrosive, 100% organic, biodegradable concentrate fire-suppressing agent designed to extinguish class A, B, K, D and L fires (Lithium-Ion Thermal Runaway).

Company: Specialty Fire Solutions

In case of emergency dial 911.

For information about this SDS, contact phone #: (562) 726-6330

Section 2: Hazard(s) Identification

Hazard Classification: This chemical mixture is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1919.1200)

Signal Word(s): Not a hazardous substance or mixture

Hazard Statements: Not a hazardous substance or mixture

Description of other hazards: None Known

Section 3: Composition/ Information on Ingredients

Chemical Name	Synonym	CAS#	Conc.*
Phenoxyethanol	Ethylene Glycol Monophenyl Ether	122-99-6	<1%
Bio-based Surfactant Blend	Proprietary	Proprietary	0.5%-50%
Bio-based Ingredients	Proprietary	Proprietary	1-50%

**Exact Concentration withheld as trade secret
All Ingredients are listed on EPA Safer Choice List*

Section 4: First-Aid Measures

After skin contact: Generally, the product does not irritate the skin. The product will remove oils from skin similar to common soaps.

After eye contact: Rinse opened eye for several minutes under running water.

After inhalation: Supply fresh air; consult physician in case of complaints.

After swallowing: If symptoms persist consult physician.

Section 5: Fire-Fighting Measures

Suitable extinguishing agents: This product is used as an extinguishing agent and, therefore, is not a problem when trying to control a fire. Use extinguishing agent appropriate to other materials involved.

Special protective equipment for firefighters: No special measures required for the product, wear protective clothing and self-contained breathing apparatus as appropriate for specific fire conditions.

Flammable Limits: Non-Flammable

Section 6: Accidental Release Measures

Personal Precautions: None required.

Measures for environmental protection: Dilute and wash away with water, non-toxic, EPA Friendly.

Spill or Leak Procedures: Rinse the affected area with water. Product is water soluble and foam layer dissipates without leaving residue. Product biodegrades rapidly.

Waste Disposal Method: Dispose as non-hazardous waste in accordance with local regulations.

Section 7: Handling and Storage

Handling: 4Bell KO™ is neutral. It will remove oil from the skin and may not irritate the eyes if sprayed directly into them. When handling bulk concentrate, no special precaution is required, skin contact is ok.

Storage: Store in closed containers at temperatures from 32°F to 120°F to prevent evaporation and deterioration. Freezing will not damage the material as long as the container remains intact.

Other Precautions: Although components have low hazard levels, the product will remove oils like the common soap from the skin.

Section 8: Exposure Controls/Personal Protection

Chemical Name	OSHA PEL	OSHA PEL (ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
No hazardous components in product				

General protective and hygienic measures: No additional PPE required
Breathing equipment: None required
Protection of hands: None required; use chemical-resistant gloves if there is anticipation of prolonged skin contact.
Eye protection: Safety glasses as needed to prevent reasonable probability of eye contact.
Ventilation: Under ordinary conditions of use for its intended purpose, no special ventilation is required.

Potential routes of exposure/potential health effects

Skin: Yes, can cause skin irritation similar to soap
Eye: Yes, causes eye irritation similar to soap
Inhalation: No relevant studies identified
Ingestion: No relevant studies identified
Carcinogenic effects: Not considered carcinogenic by NTP, IARC, and OSHA.
Mutagenic effects: No relevant studies identified
Reproductive toxicity: No relevant studies identified

Section 9: Physical and Chemical Properties

Appearance: Clear white liquid
Odor: Mild, pleasant fresh smell
Odor threshold: No data available
pH: Concentrate is 7.3 and is neutral when diluted
Melting point/melting range: No data available
Boiling point/boiling range: 212 degrees
Flash point: Negligible
Evaporation rate: No data available
Flammability: Not applicable
Upper/lower flammability or explosive limits: Not applicable
Auto ignition temperature: Not applicable
Danger of explosion: Not applicable
Viscosity: < 400 Cps @ 20 degrees C
Specific gravity: 1.06 @ 60 F
Solubility in/Miscibility with water: 100% soluble, same as water
Dispersant Capability: Low, Treated oils are not dispersed in water

Section 10: Stability and Reactivity

Reactivity: None known, based on testing
Chemical stability: Stable under normal conditions
Conditions to avoid: Contact with incompatible materials
Incompatible materials: Not expected

Hazardous decomposition products: Carbon Oxides
Hazardous Polymerization: Not expected to occur

Section 11: Toxicological Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethylene glycol monophenyl ether	1850 mg/kg (Rat)	5 mL/kg (Rabbit)	>0.057 mg/L (Rat) 8Hr
Aquatic Toxicity	96hr acute toxicity Freshwater Alga (Selenastrum Capricornutum)	96 hr acute toxicity Juvenile Rainbow Trout (Oncorhynchus Mykiss)	
4Bell KO™	>750 mg/kg	LC50 – 105 mg/kg	

Sensitization: No relevant studies identified
Target organs: No relevant studies identified

Section 12: Ecological Information

Ecotoxicity: No relevant studies identified
Mobility: No relevant studies identified
Biodegradation: Product is 100% biodegradable in an active environment within 21 days
Bioaccumulation: No relevant studies identified

Section 13: Disposal Considerations

This product, as sold, is not a RCRA-listed waste or hazardous waste as characterized by 40 CFR 261. Dispose as non-hazardous waste in accordance with local regulations.

Section 14: Transport Information

DOT regulations: Not regulated

- **Hazard class:** Not Applicable
- **Land transport ADR/RID (cross-border):** Not Applicable
- **ADR/RID class:** Not Applicable
- **Maritime transport IMDG:** Not Applicable
- **Air transport ICAO-TI and IATA-DGR:** Not Applicable
- **ICAO/IATA Class:** Not Applicable

Section 15: Regulatory Information

US Federal Regulations

SARA Section 355 (extremely hazardous substances): None
SARA Section 311/312/313 (specific toxic chemical listings):
None **Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs):** None **TSCA (Toxic Substances Control Act):** None

Section 16: Other Information

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