

**MATERIAL SAFETY DATA SHEET****Absolute Protective Coatings**Product Name: **UK-3000**, Part A**SECTION 1: IDENTIFICATION**

MANUFACTURER: Absolute Protective Coatings  
ADDRESS: 1265 N Hendrickson DR Kalama WA 98625  
PHONE: 1 (360) 673-6404

CHEMICAL NAME: N/A  
COMMON NAME: **UK-3000** - Part A CHEMICAL  
FAMILY: Polyalcohol Emulsion

H.M.I.S. RATING	
Health	2
Flammability	1
Reactivity	1

**SECTION 2: HAZARDOUS CHEMICALS**

COMPONENT	CAS #	EXPOSURE LIMIT
Vegetable Oil *Vegetable Oil mists (Specific chemical identity is withheld as a trade secret.)	N/A	OSHA: 5.00 mg/m <sup>3</sup> TWA Respirable Fract.* 38 - 48% ACGIH: Not established
Butyl Benzyl Phthalate	85-68-7	OSHA: Not established 12 - 20% ACGIH: Not established UK OES: 5.00 mg/m <sup>3</sup> TWA
Glycerin	56-81-5	OSHA: 5.00 mg/m <sup>3</sup> TWA Respirable Fract. 1 - 5% 15.00 mg/m <sup>3</sup> TWA Total Dust ACGIH: 10.00 mg/m <sup>3</sup> TWA Mist

**SECTION 3: HEALTH HAZARDS**

ROUTES OF EXPOSURE: Inhalation, eye contact, skin contact and ingestion.

Acute Inhalation: Vapors and mists of this product can be irritating to the mucous membranes and respiratory tract. Symptoms may include sore throat, coughing, shortness of breath, headache and dizziness. The vegetable oil component of this product may cause allergic asthmatic reaction in persons previously exposed. At elevated temperatures the generated vapor or mist of this product may cause irritation and dehydration of the mucous membranes of the respiratory tract. The butyl benzyl phthalate component may cause irritation and central nervous system depression if sufficient quantities are absorbed.

Chronic Inhalation: None reported for this product as a whole. Expected to be similar to effects listed for acute inhalation. However, chronic exposure to organic solvents has been associated with various neurotoxic effects including permanent brain and nervous system damage. Symptoms can include loss of memory, loss of intellectual ability and loss of coordination.

Acute Skin Contact: Repeated skin contact with this product may result in dry, defatted and cracked skin causing increased susceptibility to infection. In addition, irritation (i.e. redness and swelling) that may develop into dermatitis may occur from skin contact. Allergic reactions may occur in some individuals.

Chronic Skin Contact: None reported for this product as a whole. It is expected that repeated or prolonged contact may cause dermatitis.

Acute Eye Contact: Liquid, aerosols and concentrated vapors of this product can be irritating to the eyes causing a stinging sensation, tearing, reddening and possibly swelling of the eyes. If left untreated, corneal injury can occur and injury is slow to heal. Damage is usually reversible.

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Chronic Eye Contact: None reported for product as a whole. Based on component information, prolonged vapor contact may cause conjunctivitis.

Acute Ingestion: The product can cause gastrointestinal distress and can result in irritation in the digestive tract. Symptoms can include sore throat, abdominal pain, nausea, vomiting and diarrhea. May also cause central nervous system depression with headache, dizziness and drowsiness. Aspiration of the vegetable oil may result in lipid pneumonia.

Chronic Ingestion: None reported.

Carcinogenicity: The components of this product are not listed by NTP, IARC or regulated as a carcinogen by OSHA.

Medical conditions aggravated by exposure: With repeated or prolonged contact this product may aggravate an existing dermatitis or other allergic reactions, as well as existing respiratory conditions.

Exposure Limits: Not established for this product.

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### SECTION 4: FIRST AID

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Eyes: Flush immediately with clean, lukewarm water (low pressure) for at least 15 minutes, while holding eyelids open. Obtain medical attention if irritation develops or persists.

Skin: Immediately remove contaminated clothing and shoes. Wash affected areas thoroughly with soap and lukewarm water. Wash contaminated clothing and clean shoes thoroughly before reuse. If irritation develops or persists contact a physician.

Inhalation: If breathing is difficult, immediately remove from area to fresh air. Give artificial respiration as needed. If breathing is still difficult, administer oxygen. Obtain medical attention.

Ingestion: Do not induce vomiting. Give 1 or 2 cups of water or milk to drink. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON. Should vomiting occur keep head lower than hip level to prevent aspiration of fluid into lungs. Consult a physician.

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### SECTION 5: FIRE AND EXPLOSION DATA

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Flammable Limits: Upper explosive limit (UEL) (%): 1.5% @ 200° C PMA  
Lower explosive limit (UEL) (%): 7.0% @ 200° C PMA

Flash Point: Greater than 212°F (100°C)

Auto-ignition temperature: Approx. 707°F (375°C) - similar product

Extinguishing media: Dry chemical, foam, carbon dioxide and water spray for large fires.

Special fire fighting procedures: Firefighters must wear full emergency equipment with self-contained breathing apparatus and full protective clothing. During a fire irritating, toxic gases and smoke are present from decomposition and combustion. Use appropriate means to extinguish surrounding fire. Use water spray to cool fire-exposed containers to prevent rupture. Solid residue will support combustion after the water has evaporated.

Unusual fire/explosion hazards: Organic solvent vapors (PMA)/air mixtures are explosive above flash point.

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### SECTION 6: ACCIDENTAL RELEASE MEASURES

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N/A

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### SECTION 7: HANDLING AND STORAGE

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Storage Temperature (min/max): 32°F (0°C) / 120°F (50°C) - contains water, keep from freezing

Shelf life: Not established

Special sensitivity: Material contains water and can freeze at temperatures at or below 32°F (0°C). Do not store material at or below these temperatures.

Handling and storage procedures: Protect from freezing. Keep containers tightly closed when not in use to prevent contamination with foreign materials. Store in a cool well ventilated area in original or similar container. Avoid product temperatures above 120°F (50°C) and below 32°F (0°C). Do not get material in eyes or on skin. Avoid breathing vapors or mist if generated. PMA may form peroxides during prolonged storage. Avoid contact with light and check peroxide content before use. Educate and train employees in the safe handling of this product.

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### SECTION 8: PERSONAL PROTECTION AND EXPOSURE CONTROLS

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Leak and Spill Procedure: Evacuate all non-essential personnel. Ventilate the area. Use all applicable personal protective equipment. Prevent run-off into sewers, storm drains, soil and surface water supplies using dikes and absorbent materials. Cover spill with sawdust, vermiculite, Fuller's earth or other absorbent material. Collect material in open containers. Remove containers to safe place and cover. Flush spill area with water. Notify appropriate authorities if necessary.

Eye Protection: Liquid chemical goggles or faceshield. Vapor resistant goggles should be worn when contact lenses are in use. In a splash hazard environment chemical goggles should be used in combination with a full face-shield.

Skin Protection: Permeation resistant gloves (butyl rubber, nitrile rubber). Cover as much of the exposed skin area as possible with appropriate clothing (long sleeve shirts, trousers). If skin creams are used, keep the area protected only by the cream to a minimum.

Ventilation/Respiratory Protection: Exhaust ventilation sufficient to keep the airborne concentrations of the hazardous constituents below applicable exposure limits must be utilized. Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination. Curing ovens must be ventilated to prevent the buildup of explosive atmospheres and to prevent off gases from entering the workplace. In addition, a respirator that is recommended or approved for use in organic vapor containing environments (air purifying or fresh air supplied) may be necessary. In spray applications an organic vapor/particulate respirator or air supplied unit is necessary. Consider type of application and environmental concentrations. Take into account other materials being used concurrently. Observe OSHA regulations for respirator use (29 CFR 1910.134).

Additional Protective Measures: Safety showers and eyewash stations should be easily accessible to the work area. Educate and train employees in safe use of product. Follow all label instructions.

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### SECTION 9: TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

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Physical Form

Thixotropic liquid

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Appearance	Cloudy
Color	Milky (white)
Odor	Weak odor
pH	Approx. 7.2
Boiling Point	Approx. 208.4°F (98°C)
Melting/Freezing Point	Less than or equal to 32°F (0°C) (water)
Viscosity	Approx. 210 mPa.s at 68°F (20°C)
Solubility in Water	Miscible
Specific Gravity (water=1)	Approx. 1.00 g/cm <sup>3</sup> at 68°F (20°C)
Bulk Density	Not noted
Vapor Pressure	Approx. 33 mbar @ 68°F (20°C); Approx. 101 mbar @ 120°F (50°C); Approx. 132 mbar @ 131°F (55°C)
Vapor Density (Air=1)	Not established

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## SECTION 10: STABILITY AND REACTIVITY

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Stability: Stable under normal conditions.

Reactivity: Hazardous polymerization will not occur.

Incompatibilities (Materials to avoid): Strong oxidizing agents, reducing agents, acids, alkalis.

Instability Conditions: Temperatures below 32°F (0°C) - product will freeze.

Hazardous Decomposition Products: By fire - oxides of carbon, oxides of nitrogen and other unknown aliphatic fragments.

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## SECTION 11: TOXICOLOGICAL PROPERTIES

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Toxicity Data for Vegetable Oil:

Acute Toxicity

Eye Effects: 500 mg - rabbit - mild

Skin Effects: 100 mg/24 hours - rabbit - severe

Fate and Transport: Bioconcentration - 480 ug/L 14 days BCF (Residue) Common, mirror, colored. Carp (Cyprinus carpio) 0.86 ug/L

Toxicity Data for Butyl Benzyl Phthalate:

Acute Toxicity

Oral LD50: 2330 mg/kg (Rat) \*

Dermal LD50: 6700 mg/kg (Rate) \*

Other acute effects: Animal studies report that central and peripheral neuropathies may occur. Mammals exposed to 13.100 mg/m<sup>3</sup> suffered somnolence, withdrawal, weight loss and death of 50% of the animals tested. \*

Chronic toxicity Chronically fed rats exhibited leukemia and lymphomas, including Hodgkin's disease. Male rats chronically fed exhibited effects on the reproductive organs. \*

\* MDL Information Systems, Inc. MSDS

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## SECTION 12: ECOLOGICAL INFORMATION

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Ecology Data for Butyl Benzyl Phthalate:

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Fish Toxicity: LC50 - 510 ug/L for 96 hours (mortality). Shiner perch (*Cymatogaster aggregata*) \*  
Invertebrate Toxicity: EC50 - 6900 ug/L for 48 hours (Shell Deposition). American or Virginia oyster (*Crassostrea Virginica*) \*  
Plant Toxicity: EC50 - 170 ug/L for 96 hours (Photosynthesis). Diatom (*Skeletonema costatum*)\*

\* MDL Information Systems, Inc. MSDS

### SECTION 13: DISPOSAL INFORMATION

Waste Disposal Method: Waste material must be disposed of in accordance with federal, state and local environmental control regulations. Incineration is the preferred method.

Empty Container Precautions: Empty containers retain product residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

### SECTION 14: TRANSPORT INFORMATION

Technical Shipping Name: Polyalcohol Emulsion containing Butyl Benzyl Phthalate  
Freight Class Bulk: Chemicals, NOI  
Freight Class Package: Chemicals, NOI, NMFC 60000  
Product Label: Product Label Established

#### DOT (Domestic Surface)

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S.  
Hazard Class or Division: 9  
UN/NA Number: UN3082  
Packing Group: III  
DOT Product RQ lbs (kgs): 500 lbs (226.8 kgs)  
Hazard Label (s): Class 9  
Hazard Placard (s): Class 9

\* When in individual containers of less than the Product RQ, this material ships as non-regulated.

#### IMO / IMDG Code (Ocean)

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S.  
Hazard Class or Division: 9  
UN Number: UN3082  
Hazard Label (s): Miscellaneous  
Hazard Placard (s): Miscellaneous

\* When in individual containers of less than the Product RQ, this material ships as non-regulated.

#### ICAO / IATA Code (Air)

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S.  
Hazard Class or Division: 9  
UN Number: UN3082  
Subsidiary Risk: None

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Packing Group: III  
Hazard Label (s): Miscellaneous  
Radioactive?: Non-Radioactive  
Passenger Air - max. qty: No limit  
Passenger Packing Instruction: 914  
Cargo Air - max. qty: No limit  
Cargo Air Packing Instruction: 914

\* When in individual containers of less than the Product RQ, this material ships as non-regulated.

### SECTION 15: REGULATORY INFORMATION

OSHA Status: This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA Status: On TSCA Inventory

CERCLA Reportable Quantity: Butyl Benzyl Phthalate - 100 lbs.

SARA Title III: Section 302 Extremely Hazardous Substances - None  
Section 311/312 Hazard Categories - Immediate Health Hazard  
Section 313 Toxic Chemicals - None

RCRA Status: If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

The following chemicals are specifically listed by individual states: other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

Component Name/CAS Number	Concentration	State Code
Vegetable Oil NJTSRN (31765300002) - 1221338	48 %	PA3, NJ4
Water 7732 - 18 - 5	20 - 30 %	PA3, NJ4
Butyl Benzyl Phthalate 85 - 68 - 7	12 - 20 %	PA1, PA4, MA, NJ1, NJ2, CN1
Glycerin 56 - 81 - 5	1 - 5 %	PA1, MA, NJ4
n-Methylpyrrolidinone 872 - 50 - 4	Approx. 0.086 %	CA2

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CA2 = Warning! This chemical is known to the State of California to cause birth defects or other reproductive harm.

MA = Massachusetts Hazardous Substance List.

NJ1 = New Jersey Hazardous Substance List.

NJ2 = New Jersey Environmental Hazardous Substance List.

NJ4 = New Jersey Other - included in 5 predominant ingredients > 1%

NJTSRN = New Jersey Trade Secret Registry Number

PA1 = Pennsylvania Hazardous Substance List

PA3 = Pennsylvania Non-Hazardous present at 3% or greater.

PA4 = Pennsylvania Environmental Hazardous Substance List.

CN1 = Canada WHMIS Ingredient Disclosure List over 1%.

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### SECTION 16: OTHER INFORMATION

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DISCLAIMER: The information contained herein is based on data believed to be accurate. However, no warranty is expressed 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 regarding all current regulations.