

MATERIAL SAFETY DATA SHEET

Product Name: UK-2000, Part A

Absolute Protective Coatings

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-2000, Part A CHEMICAL
FAMILY: N/A

H.M.I.S. RATING	
Health	3
Flammability	1
Reactivity	1

SECTION 2: HAZARDOUS CHEMICALS

INGREDIENT	%	CAS #	Lethal Dose	Lethal Concentration
Polymeric Diphenylmethane	70-100	9016-87-9	10,000 mg/kg (rat,oral)	369 ppm/4hr (aerosol rat, inhalation)
Diisocyanate (polymeric MDI) Contains: 4,4' MDI		101-68-8		

SECTION 3: HEALTH HAZARDS

ROUTES OF EXPOSURE: Eye contact, skin contact, inhalation and ingestion.

Acute Exposure: Moderate irritation to the eye, mucous, respiratory system and skin upon direct contact. Inhalation exposure most likely if product is heated or forms mist or aerosol during pouring, frothing or spraying operations. Symptoms include eye and nose irritation, dry or sore throat, runny nose, shortness of breath, wheezing and laryngitis. Coughing with chest pain or tightness may occur, frequently at night. These symptoms may be delayed several hours and can be aggravated by physical exertion. High aerosol concentrations can cause inflammation of the lung tissue, chemical bronchitis with severe asthma-like wheezing, severe coughing spasms and accumulation of fluid in the lungs which could prove fatal.

Chronic Exposure: May cause discoloration and hardening of skin after repeated exposures. Respiratory sensitization has developed in some persons as a result of large or repeated exposures and usually develops in the first few months of exposure. Sensitized people react to very low levels of product. May also cause hypersensitivity pneumonitis which is characterized by shortness of breath, fever, tiredness, cough and chills. May diminish lung capacity. Exposure will likely aggravate existing respiratory disease such as bronchitis and emphysema.

Exposure Limits:	ACGIH TLV-TWA = 0.005 ppm
Teratogenicity:	Not available
Irritancy of product:	As noted above
Reproduction Toxicity:	Not available
Sensitization:	As noted above
Mutagenicity:	Not available
Carcinogenicity:	ASHA PEL 0.02 ppm
Synergistic Products:	Not available

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SECTION 4: FIRST AID

Eyes: Flush with running water for at least 20 minutes, while holding eyelids open. Refer individual to physician if irritation persists.

Skin: Remove contaminated clothing. Wash affected areas thoroughly with soap and water. Wash contaminated clothing thoroughly before reuse. Get medical attention if irritation persists.

Inhalation: Remove to fresh air. Give artificial respiration as needed. Obtain medical attention.

Ingestion: Do not induce vomiting. Wash mouth out thoroughly with water. Give 3 or 4 glasses of water. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON. If aspiration to the lungs is suspected, obtain medical advice urgently. Consult a physician.

SECTION 5: FIRE AND EXPLOSION DATA

Flammable	No. Toxic gases may be generated if heated.
Flash Point	158°C (open cup)
Upper/lower flammability limit	Not available
Auto-ignition temperature	Not available
Hazardous combustion products	Oxides of nitrogen, oxides of carbon, oxides of sulphur and traces of hydrogen cyanide.
Sensitivity to static discharge	No
Explosion data, sensitivity to impact	No
Means of extinction:	Use appropriate means to extinguish surrounding fire. Use water spray to cool containers. The reaction of water and hot product may be vigorous.
Special Fire Fighting Procedures:	Firefighters must wear self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedure: Secure the spill area. Use all applicable personal protective equipment. Prevent run-off into sewers, storm drains and surface water bodies using dikes and absorbent materials. Collect spilled materials in suitable closed containers.

SECTION 7: HANDLING AND STORAGE

Handling and Storage Procedures: Keep containers tightly closed when not in use. Do not reseal contaminated material. Store in a cool, dry place away from all sources of ignition, direct sunlight and incompatible materials. Do not store near foods.

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SECTION 8: PERSONAL PROTECTION AND EXPOSURE CONTROLS

Skin Protection Requirements: Natural rubber gloves, impervious coveralls and boots recommended.

Eye Protection: Safety goggles strongly recommended.

Respirator Requirements: NIOSH recommends up to 100 ppm positive pressure, full face-piece self-contained breathing apparatus.

Additional Protective Measures: Safety showers and eyewash stations should be available.

Engineering Controls (specify ventilation, enclosed process): Use a combination of general dilution ventilation and local exhaust ventilation to control exposure. Use precautions for confined entry situations.

SECTION 9: TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

Physical Form	Liquid
Color	Dark Brown
Odor	Slightly aromatic
Vapor Pressure	Not available
Vapor Density (Air=1)	8.5
Odor Threshold	Not available
Evaporation Rate (n-Butyl acetate=1)	Not available
Boiling Point	410°F (210°C) @ 5 mmHg
Freezing Point	Not available
pH	Not applicable
Specific Gravity (water=1)	1.22
Solubility in Water	Insoluble in water

SECTION 10: STABILITY AND REACTIVITY

Stability: Will decompose if heated. Do not store above 70°C. Reacts with water to form carbon dioxide gas.

Incompatibilities (Materials to avoid): Incompatible with water, strong bases, alcohols, amines and metals.

Reactivity: Hazardous polymerization will occur above 200°C. Closed containers may rupture if heated. The reaction with water is slow under 50°C.

Hazardous Decomposition Products (by high heat and fire): Oxides of nitrogen, oxides of carbon, oxides of sulphur and traces of hydrogen cyanide.

SECTION 11: TOXICOLOGICAL PROPERTIES

N/A

SECTION 12: ECOLOGICAL INFORMATION

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N/A

SECTION 13: DISPOSAL INFORMATION

Waste Removal: Follow all national, state and local regulations. Decontaminate empty containers by filling with water. Heat and carbon dioxide will be released. Let stand uncovered for at least 24 hours

SECTION 14: TRANSPORT INFORMATION

Not "Dangerous Goods" under TDGR

SECTION 15: REGULATORY INFORMATION

N/A

SECTION 16: OTHER INFORMATION

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.