

**SAFETY DATA SHEET****Section 1 – Chemical Product and Company Identification****Product/Chemical Name:** KBS Strip**CAS Number:** Mixture**General Use:** Paint Remover**Distributor:** Advanced Protective Technologies, LLC  
1101 Cumberland Xing #180  
Valparaiso, IN 46383  
219-263-0073  
support@kbs-coatings.com**Emergency Telephone Number:** 1-800-424-9300**Section 2 – Hazards Identification**

Note: This product is a consumer product and is labeled in accordance with the US Consumer Product Safety Commission regulations which take precedence over OSHA Hazard Communication labeling. The actual container label will not include the label elements below. The labeling below applies to industrial/professional products.

**GHS / HAZCOM 2012 Classification:**

<b>Health</b>	<b>Physical</b>
Skin Irritation Category 2 Eye Irritation Category 2A Carcinogenicity Category 1A Specific Target Organ Toxicity – Single Exposure Category 1 Specific Target Organ Toxicity – Single Exposure Category 3 (Respiratory, Central Nervous System) Specific Target Organ Toxicity – Repeat Exposure Category 2	Flammable Liquid Category 3

**Label Elements****Danger!**

Flammable liquid and vapor.

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

May cause drowsiness or dizziness.

May cause cancer.

Causes damage to central nervous system and optic nerve.

May cause damage to central nervous system, blood and liver through prolonged or repeated exposure.

**Prevention:**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep away from heat, sparks, open flames and hot surfaces. No smoking.

Keep container tightly closed.

Ground or bond container and receiving equipment.

Use explosion-proof electrical, ventilation and lighting equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wash thoroughly after handling.

Do not breathe mists, vapors or spray.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Wear protective gloves, eye protection and face protection.

**Response:**

In case of fire: Use dry chemical, carbon dioxide, alcohol foam to extinguish.

IF exposed or concerned: Call a POISON CENTER

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation occurs: Get medical attention.

Take off contaminated clothing and wash it before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER if you feel unwell.

**Storage:**

Store in a well-ventilated place. Keep cool.

Store locked up.

**Disposal:**

Dispose of contents or container in accordance with local or national regulations.

<b>Section 3 - Composition / Information on Ingredients</b>
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Components	CAS Number	Amount
Methylene Chloride (Dichloromethane)	75-09-2	70-85
Methanol	67-56-1	5-10
2-Butoxyethanol	111-76-2	5-10

Note: 29 CFR 1910.1052 is the OSHA regulation on Occupational Exposure to Methylene Chloride. Assure compliance with these regulations.

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**Section 4 - First Aid Measures**

**Eye Contact:** Immediately flush eye with water for at least 15 minutes, holding eyelids open to assure the eye is thoroughly flushed. Get medical attention.

**Skin Contact:** Immediately wash with soap and water for several minutes. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. Discard or thoroughly clean contaminated shoes. Get medical attention if irritation persists.

**Inhalation:** Remove victim to fresh air. If breathing has stopped give artificial respiration. If breathing is difficult have qualified personnel administer oxygen. Get immediate medical attention.

**Ingestion:** Immediately call a physician or poison control center for assistance. Do not induce vomiting unless directed to by medical personnel. Never give anything by mouth to a person who is unconscious or convulsing. Get immediate medical attention.

**Most important symptoms and effects, acute and delayed:**

Causes eye and skin irritation. Inhalation of vapors or mist may cause respiratory irritation and central nervous system effects such as headache, dizziness, drowsiness, nausea and unconsciousness. Harmful or fatal and may cause blindness if swallowed. Overexposure may cause heart, liver, kidney, blood system and nervous system damage. Methylene chloride is converted to carbon monoxide in the body which may worsen heart disease. May cause cancer based on animal data. This product contains methylene chloride which is suspected of causing cancer. The risk of cancer depends on the level and duration of exposure.

**Indication of immediate medical attention and special treatment, if needed:** If product is swallowed, immediately call poison control center for assistance.

**Section 5 - Fire-Fighting Measures**

**Suitable (and Unsuitable) Extinguishing Media:** Use dry chemical, carbon dioxide, alcohol foam to extinguish fire.

**Specific Hazards Arising from the Chemical:** Due to the unique chemical composition of this product, the liquid portion is nonflammable, however, due to methanol; vapors in a closely confined, non-ventilated area could flash. Vapors form explosive mixtures with air in confined or poorly ventilated areas. Vapors are heavier than air and will travel along surfaces to remote ignition sources and flash back. Closed containers may explode if exposed to extreme heat. Decomposition products are toxic.

**Special Protective Equipment and Precautions for Fire-fighters:** Firefighters should wear full emergency equipment and NIOSH approved positive pressure self-contained breathing apparatus. Cool fire exposed containers with water.

**Section 6 - Accidental Release Measures**

**Personal precautions, Protective equipment, and Emergency procedures:**

Evacuate spill area and keep unprotected personnel away. Remove all sources of ignition. Ventilate area with explosion proof equipment. Wear appropriate protective clothing.

**Methods and Materials for Containment and Cleaning up:**

Absorb with inert absorbent. Please in a suitable container for disposal. Avoid contamination of soil, surface water and ground water. Do not flush to sewer! Report releases as required by local, state and federal authorities.

### Section 7 - Handling and Storage

**Precautions for Safe Handling:** Avoid contact with eyes, skin and clothing. Avoid breathing vapors. Use only with appropriate protective equipment and adequate ventilation. Immediately remove and launder contaminated clothing before re-use. Wash thoroughly after handling and before eating, drinking, smoking or using toilet facilities. Avoid use where carbon monoxide may be present (i.e. garages, loading docks). Keep away from heat, direct sunlight and all sources of ignition.

Refer to OSHA 1910.1052 for requirements for handling and use of methylene chloride.

**OTHER PRECAUTIONS:** Empty containers retain product residues. Follow all MSDS precautions in handling empty containers.

**Conditions for Safe Storage, Including any Incompatibilities:** Protect containers from physical damage. Store in a cool, well ventilated area away from ignition sources and incompatible materials.

### Section 8 - Exposure Controls / Personal Protection

#### Exposure Guidelines:

Component	Exposure Limits
Methylene Chloride (Dichloromethane)	25 ppm TWA OSHA PEL 125 ppm STEL OSHA PEL 50 ppm TWA ACGIH TLV
Methanol	200 ppm TWA OSHA PEL 200 ppm TWA ACGIH TLV 250 ppm STEL ACGIH TLV
2-Butoxyethanol	50 ppm , skin TWA OSHA PEL 20 ppm TWA ACGIH TLV

**Appropriate Engineering Controls:** Use with adequate ventilation (equivalent to outdoors) to maintain exposures below the occupational exposure limits. Use explosion proof equipment where required. Open doors and use fans to achieve good air movement. If possible, use local exhaust to remove vapors.

#### Personal Protective Equipment:

**Respiratory protection:** If the exposure limits are exceeded a NIOSH approved full facepiece supplied air respirator or self-contained breathing apparatus should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134, 1910.1052 and good industrial hygiene practice.

**Hand protection:** Wear impervious gloves. Contact glove supplier to determine correct glove for this product.

**Eye Protection:** Chemical safety goggles recommended.

**Skin Protection:** Impervious apron, boots and other clothing are recommended if needed to prevent contact or if splashing is possible.

**Other protective equipment or clothing:** or operations where contact can occur, eye washing facilities should be available.

**Hygiene measures:** Avoid contact with eyes, skin and clothing. Wash thoroughly after use. Handle in accordance with good industrial hygiene and safety.

### Section 9 - Physical and Chemical Properties

<b>Appearance:</b>	Opaque Liquid	<b>Odor:</b>	Low Characteristic
<b>Odor Threshold:</b>	0.92 ppm (methylene chloride)	<b>Ph:</b>	Not available
<b>Melting/Freezing Point:</b>	Not available	<b>Boiling Point/Range:</b>	104°F (39.8°C)
<b>Flash Point:</b>	75.7°F (24.3°C) ASTM D-3278-96 Method B*	<b>Evaporation Rate:</b>	14.5
<b>Flammability: (Solid, Gas)</b>	Not applicable	<b>Flammability Limits:</b>	LEL: 1.1% (2-butoxyethanol) UEL: 36% (methanol)
<b>Vapor Pressure:</b>	350 @ 20°C mm Hg	<b>Vapor Density:</b>	2.93
<b>Relative Density:</b>	1.16	<b>Solubilities:</b>	Rinseable
<b>Partition Coefficient: (N-Octanol/Water)</b>	Not determined	<b>Autoignition Temperature:</b>	Not determined
<b>Decomposition Temperature:</b>	Not determined	<b>Viscosity:</b>	Not determined

\* Due to the unique chemical composition of this product, the liquid portion is nonflammable, however, due to methanol; vapors in a closely confined, non-ventilated area could flash

### Section 10 - Stability and Reactivity

**Reactivity:** None known.

**Chemical Stability:** This material is stable.

**Possibility of Hazardous Reactions:** Contact with moisture may yield trichloroacetic acid and hydrochloric acid.

**Conditions to avoid:** Avoid contact with open flames, electric arc and other hot surfaces which can cause thermal decomposition.

**Incompatible Materials:** Strong oxidizing agents, caustics, nitric acid, chemically active metals, including aluminum, magnesium, potassium and sodium.

**Hazardous decomposition products:** Thermal decomposition may yield carbon monoxide, carbon dioxide, hydrogen chloride and phosgene.

### Section 11 - Toxicological Information

**Potential Health Effects:**

**Acute Hazards:**

**Inhalation:** Inhalation of vapors or mists may cause mucous membrane and respiratory irritation and central nervous system depression with symptoms of headache, dizziness, giddiness, intoxication, tingling, numbness and shooting pains in the hands and arms, nausea, incoordination, drunkenness, stupor, irregular heartbeat. Overexposure may cause cardiac sensitization and increased risk of cardiac arrest, blurred vision, blindness, adverse effects on the lungs, liver, kidney, nervous system and other internal organs, coma or death. Carboxyhemoglobin levels can be elevated in persons exposed to methylene chloride causing stress on the cardiovascular system. Alcohol consumption may increase adverse effects.

**Skin Contact:** Prolonged or repeated contact may cause severe irritation or burns, drying, defatting of the skin and dermatitis. The liquid may be absorbed through the skin causing effects similar to those described under inhalation and ingestion.

**Eye Contact:** Vapors or mists may cause irritation, redness, tearing and swelling. Direct contact may cause corneal damage.

**Ingestion:** Ingestion may cause mucous membrane and gastrointestinal irritation, visual disturbances and nervous system depression with symptoms of headache, dizziness, nausea, vomiting, weakness, fatigue, leg cramps, restlessness, confusion, drunken behavior, narcosis, and unconsciousness. Alcohol consumed before or after exposure may increase adverse effects. Aspiration into the lungs during ingestion or vomiting may cause serious lung damage which may be fatal. Methanol is very slowly eliminated from the body. Ingestion of methanol may cause nervous system effects, blurred vision, changes in color perception, blindness, coma and death.

**Carcinogenicity Listing:** Methylene chloride has been listed as "possibly carcinogenic to humans" (Group 2B) by IARC, "reasonably anticipated to be a human carcinogen" (R) by NTP, "confirmed animal carcinogen with unknown relevance to humans" (A3) by ACGIH and as a carcinogen by OSHA.

**Chronic Effects:** Prolonged occupational overexposure may cause effects on vision and damage to the kidneys, liver, lungs and cardiovascular system. Prolonged intentional abuse may damage many organ systems including central and peripheral nervous systems, vision, liver, kidneys, lymphoid system, heart and blood. Methylene chloride has been shown to cause reproductive toxicity and/or birth defects only at doses that produce significant toxicity in the parent animal.

**Acute toxicity:**

Methylene Chloride: Oral rat LD50 >2000 mg/kg; Inhalation mouse LC50 86 mg/L/4 hr; Skin rat LD50>2000 mg/kg.

Methanol: Oral rat LD50 >2528 mg/kg; Skin rabbit 17,100 mg/kg

2-Butoxyethanol: Oral rat LD50 1746 mg/kg; Skin rabbit LD50 400 mg/kg; Inhalation rat LC50 450 ppm/4 hr

**Section 12 - Ecological Information****Ecotoxicity:**

Methylene Chloride: 96 hr LC50 Pimephales promelas (fathead minnows) 196 mg/l; 48 hr LC50 daphnia magna 27 mg/L

Methanol: 96 hr LC50 *Lepomis macrochirus* (Bluegill) 15,400 mg/L; 48 hr LC50 *Ceriodaphnia dubia* 11 mg/L

2-Butoxyethanol: 96 hr LC50 *Cyprinodon variegatus* (Sheepshead minnow) 116 mg/L; 96 hr LC50 grass shrimp 5.4 mg/L

**Persistence and Degradability:** Methylene chloride is readily biodegradable (92% in less than 7 days). Methanol and 2-butoxyethanol are readily biodegradable.

**Bioaccumulative Potential:** Methylene chloride has an estimated BCF of 2 which suggests the potential for bioaccumulation in aquatic organisms is low.

**Mobility in Soil:** Methylene chloride is expected to have a high mobility in soil.

**Other Adverse Effects:** None known

### Section 13 - Disposal Considerations

**Disposal instructions:** Dispose of product in accordance with all local, state/provincial and federal regulations.

**Contaminated packaging** Offer rinsed packaging material to local recycling facilities.

### Section 14 - Transport Information

**UN Number:** UN 1992

**UN Proper Shipping name:** Flammable liquid, toxic n.o.s. (Methanol, Dichloromethane)

**Transport Hazard Class:** Class 3 (6.1)

**Packing Group:** PG III

**Environmental Hazard:** No

**Special Precautions for User:** None

**For packages less than 5 liter or smaller, gross mass 30 kg or less may be re-classed as ORM-D and can be shipped by ground until 1/1/2014. After that date, this product can be shipped as Limited Quantity.**

### Section 15 - Regulatory Information

**Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture**

**EPA SARA 302:** This product does not contain chemicals regulated under SARA Section 302.

**EPA SARA 311 Hazard Classification:** Acute health, Chronic Health, Fire Hazard

**EPA SARA 313:** This product contains the following chemicals regulated under SARA Title III, section 313:

Methylene Chloride	75-09-2	70-85%
Methanol	67-56-1	5-10%
2-Butoxyethanol (glycol ethers)	111-76-2	5-10%

**CERCLA:** This product has a Reportable Quantity (RQ) of 1250 lbs. based on the RQ for methylene chloride of 1,000 lbs. Releases above the RQ must be reported to the National Response Center. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

**WHMIS Classification:** Class B - Division 2 (Flammable liquid); Class D - Division 2A (Very toxic material causing other toxic effects)

**Toxic Substances Control Act:** All of the components of this product are listed on the TSCA inventory.

**CALIFORNIA PROPOSITION 65:** This product contains the following chemical known to the State of California to cause cancer or reproductive toxicity: methylene chloride 75-09-2 70-85% (cancer); methanol 67-56-1 5-10% (developmental)

<b>Section 16 - Other Information</b>
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NFPA Rating: Health: 3      Fire: 3      Instability: 0

NOTICE: Advanced Protective Technologies, LLC warrants that the information given within to be true and makes no other warranties. The suitability of this product to the project shall solely up to the user.