

SAFETY DATA SHEET

SECTION 1. PRODUCT AND COMPANY INFORMATION

Product Name	DiamondFinish Clear
Company Identification	KBS Coatings 1101 Cumberland Xing #180 Valparaiso, IN 46383
Telephone/Fax	1-877-549-9323 / 1-877-235-0590
Chemtrec (24 Hour)	1-800-424-9300
Product Class	High Performance Clear Coat
Product Code	8X04

SECTION 2. HAZARD INFORMATION

WARNING!

Flammable. Keep away from heat and ignition sources.

Harmful: May cause lung damage if swallowed. May cause sensitization by skin contact. Avoid contact with skin and eyes. Wear suitable gloves. Use only in well-ventilated areas.

HMIS/NFPA rating

HMIS RATING: HEALTH -- 2 FLAMMABILITY -- 2 REACTIVITY -- 1

Routes of exposure

Inhalation, Ingestion, Skin contact, Eye contact.

Inhalation

The vapor is slightly irritating to the eyes and the respiratory tract. The substance may cause effects on the central nervous system. Exposure to high concentration of vapors may result in unconsciousness.

Ingestion

Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis. The symptoms of chemical pneumonitis do not become manifest until a few hours or even a few days have passed.

Skin

The liquid defats the skin, resulting in dry skin and irritation.

Eye

Direct contact with the eyes may result in an irritation and swelling.

Chronic

See section 11 for additional toxicological data.

Repeated or prolonged skin contact may cause allergic contact dermatitis, with redness, blisters, cracking and swelling of the skin
Sensitization through skin contact.

The substance may have effects on the central nervous system and liver, resulting in impaired functions.

Medical conditions aggravated by exposure

Existing dermatitis, asthma and other restrictive lung disorders, skin allergies and eczema.

Interactions with other chemicals

Not available

Potential Environmental Effects

Environmental effects from the substance have not been investigated adequately. Do not allow to enter the environment by whatever means possible.

SECTION 3. PHYSICAL DATA

Ingredient Name	CAS Number	Percent	TSCA
Aliphatic Polyisocyanate	Proprietary	30-40%	Y
Solvent Naphtha, light aromatic	Proprietary	20-30%	Y
Acrylic Resin	Proprietary	30-40%	Y
Butyl Acetate	123-86-4	1-2%	Y
Ethyl Acetate	141-78-6	1-2%	Y

*** All Ingredients in this product are listed in the T.S.C.A. Inventory

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

SECTION 4. FIRST AID MEASURES

General Information:

If medical advice is needed, have this MSDS, product container or label at hand. If exposed or concerned: Get medical advice/ attention.

Recommended first aid facilities:

Ready access to running water is required. Accessible eyewash is recommended.
Emergency shower, hand wash, soap. CPR training, oxygen mask.

Exposure:

Swallowed	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. Rinse mouth.
Eye Contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Apply continuous irrigation with water for at least 15 minutes holding eyelids apart. If eye irritation persists: Get medical advice.
Skin Contact	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of soap and water. If skin irritation or rash occurs: get medical advice/attention. Wash contaminated clothing before re-use.
Inhaled	IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If patient is unconscious, place in the recovery position (on the side) for transport and contact a doctor. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Advice to Doctor:

Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Fire and explosion hazards	Vapors may form an explosive mixture in air which can be ignited by many sources such as pilot lights, open flames, electrical motors, switches and static electricity.
Suitable extinguishing substances	Carbon dioxide, extinguishing powder, foam.
Unsuitable extinguishing substances	Do not use water in a jet.
Products of combustion	Carbon dioxide and if combustion is incomplete, carbon monoxide and smoke. Nitrogen and oxides of nitrogen.
Protective equipment	Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat and eye protection.
Hazchem code	3[Y]

SECTION 6. ACCIDENTAL RELEASE MEASURES

Emergency procedures:

In the event of spillage alert the fire brigade to location and give brief description of hazard. Shut off all possible sources of ignition. Wear protective equipment to prevent skin, eye and respiratory exposure. Clear area of any unprotected personnel. Contain using sand, earth or vermiculite. Do not use sawdust. Prevent by whatever means possible any spillage from entering drains, sewers or water courses. (If this occurs contact your relevant authority immediately.)

Clean-up method:

Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred, advise local emergency services.

Disposal:

Mop up and collect recoverable material into labelled containers for recycling or salvage. Recycle containers wherever possible. This material may be suitable for approved landfill. Dispose of only in accord with all regulations.

Precautions:

Wear protective equipment to prevent skin and eye contamination and the inhalation of vapors. Work up wind or increase ventilation.

SECTION 7. STORAGE & HANDLING

Storage:

Avoid storage of harmful substances with food. Containers should be kept closed in order to minimise contamination. Keep from heat and open flames. The risk of ignition is significant at temperatures >77°F (25°C). Store below 77°F (25°C) at all times.

Avoid contact with incompatible substances as listed in Section 10. Containers (and outer packaging) must bear the prescribed labelling, including the Hazchem code, UN number, flammability warning and name of contents. **Keep out of reach of children.**

Handling:

Keep exposure to a minimum, and minimize the quantities kept in work areas. See section 8 with regard to personal protective equipment requirements. Avoid skin and eye contact and inhalation of vapor, mist or aerosols.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTIVE EQUIPMENT

Workplace Exposure Standards:

US OSHA - Permissible Exposure Levels (PELs)		
<u>Ingredient Name</u>	<u>TWA</u>	<u>STEL</u>
Aliphatic Polyisocyanate	No data	No data
Solvent Naphtha, light aromatic	300ppm (900mg/m ³)	No data
Acrylic Resin	No data	No data
Butyl Acetate	150 ppm (713 mg/m ³)	No data
Ethyl Acetate	400ppm (1440mg/m ³)	No data

US NIOSH - Recommended Exposure Levels (RELs)		
<u>Ingredient Name</u>	<u>TWA</u>	<u>STEL</u>
Aliphatic Polyisocyanate	No data	No data
Solvent Naphtha, light aromatic	300ppm (900mg/m ³)	No data
Acrylic Resin	No data	No data
Butyl Acetate	150 ppm (713 mg/m ³)	200ppm (950mg/m ³)
Ethyl Acetate	400ppm (1440mg/m ³)	No data

ACGIH - Threshold Limit Value		
<u>Ingredient Name</u>	<u>TWA</u>	<u>STEL</u>
Aliphatic Polyisocyanate	No data	No data
Solvent Naphtha, light aromatic	300ppm	500ppm
Acrylic Resin	No data	No data
Butyl Acetate	150 ppm	200ppm
Ethyl Acetate	400ppm	No data

Engineering Controls:

In industrial situations, concentration values below the REL value must be maintained. Exposure can be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe airborne concentrations of mists, dusts or vapors are high, you are advised to modify processes or increase ventilation.

Personal Protective Equipment:

Eyes: Avoid contact with eyes. Use safety glasses and/or chemical splash goggles if splashes are possible.

Skin: Avoid repeated or prolonged skin contact. Wear overalls, rubber boots and impervious gloves. Remove protective clothing and wash exposed areas with soap and water prior to eating, drinking or smoking.

Respiratory: Use a respirator when airborne concentrations approach the ES (section 8). If using a respirator, ensure that the cartridges are correct for the potential air contamination (i.e. organic vapor) and are in good working order.

ES Additional Information: Not applicable

SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Clear Resin
Odor:	Light Aromatic
pH:	Not applicable
Vapor pressure:	~1.4kpa for solvent
Vapor density:	Not applicable
Boiling point:	solvent bp: 318-338°F (159-170°C)
Total Solids by Weight:	61%
Solubility:	Insoluble in water
Specific gravity / density:	1.02 g/mL
Flash point:	77°F (25°C)
Danger of explosion:	Not explosive
Auto-ignition temperature:	Not determined
Upper & lower flammable limits:	For the solvent: LEL: 1.9 and UEL: 12.6
Corrosiveness:	Non corrosive

SECTION 10. STABILITY & REACTIVITY

Stability: Stable under normal use and storage conditions.

Conditions to be avoided: Containers should be kept closed in order to avoid contamination. Keep from heat and open flames. The risk of ignition is significant at temperatures >77°F (25°C). Store below 77°F (25°C) at all times.

Incompatible materials: None known

Hazardous decomposition products: Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Nitrogen, and under some circumstances, oxides of nitrogen. Water.

Hazardous reactions: No specific hazards.

SECTION 11. TOXICOLOGICAL INFORMATION

Summary:

No specific data is available for this product. Where available, toxicological data has been researched and data for the mixture calculated. The results of these calculations are presented below. The product is considered to have the following toxicity:

Acute	Oral	No data for mixture is available. Using LC ₅₀ 's for ingredients, the estimated LC ₅₀ (oral, rat) for the mixture is > 5000 mg/kg. Data considered includes: Solvent naphtha, light aromatic: >5000mg/kg (rat), Butyl Acetate 3200 mg/kg (rabbit), Ethyl Acetate 4100 mg/kg (mouse). Solvent naphtha, light aromatic presents an aspiration hazard, if swallowed.
	Dermal	No data for mixture is available. Using LD ₅₀ 's for ingredients, the estimated LD ₅₀ (dermal, rat) for the mixture is >2,000 mg/kg.
	Inhaled	No data for mixture is available. Using LC ₅₀ 's for ingredients, the calculated LC ₅₀ (inhalation, rat) for the mixture is >5,000 ppm. Aliphatic Polyisocyanate: 18.5mg/L (rat), Solvent naphtha, light aromatic; no data, Acrylic Resin: no data, Butyl Acetate 1.36 - 2.38 mg/l (rat), Ethyl Acetate 5.41 mg/L (mouse).
	Eye	No data for mixture is available. The mixture is not considered to be an eye irritant.
	Skin	The mixture is considered to be a skin irritant, because some of the ingredients (Solvent naphtha, light aromatic, butyl acetate, ethyl acetate) present are considered skin irritants in more concentrated form.

Chronic	Sensitization	The mixture is considered to be a contact sensitizer, because Aliphatic Polyisocyanate is known to be a contact sensitizer.
	Mutagenicity	No data for mixture is available. No ingredient present at concentrations > 0.1% is considered a mutagen.
	Carcinogenicity	No data for mixture is available. No ingredient present at concentrations > 0.1% is considered a carcinogen
	Reproductive / Developmental	No data for mixture is available. No ingredient present at concentrations > 0.1% is considered a reproductive or developmental toxicant or have any effects on or via lactation.
	Systemic	No data for mixture is available. No ingredient present at concentrations > 0.1% is considered a systemic toxicant.
	Aggravation of existing conditions	None known.

SECTION 12. ECOLOGICAL INFORMATION

Summary: No specific data is available for this product. Do not allow this material to be released into the environment.

Ecotoxicity:

Aquatic	No data for the mixture. Solvent naphtha, light aromatic and Aliphatic Polyisocyanate are considered harmful in the aquatic environment. The mixture is considered harmful to the aquatic environment.
Terrestrial vertebrate	No data for the mixture. It is not considered to be toxic towards terrestrial vertebrates based on the estimated LD ₅₀ for the mixture – see oral toxicity section.
Terrestrial invertebrate	No data for the mixture or any of the ingredients.

Supporting Data:

Bioaccumulation	No
Degradability	Yes
Soil	No data available for the mixture. The soil toxicity value for the mixture is expected to be ≥ 100 mg/kg.
Mobility	Not applicable.
Biocidal	Not applicable.

SECTION 13. DISPOSAL CONSIDERATIONS

Restrictions: State and local disposal regulations may apply. Note that State and local disposal regulations may differ from federal disposal regulations.

Disposal method: Consult Supplier for recycling options. Disposal of this product must comply with the requirements of national and regional disposal regulations. The substance must be handled as hazardous waste and disposed of in an approved facility.

Contaminated

Packaging: Dispose of empty containers safely. Do not re-use containers for any other purpose.

Special

considerations for landfill and incineration: Not applicable

SECTION 14. TRANSPORT INFORMATION**DOT Information:**

UN Number	1993	Proper Shipping Name	FLAMMABLE LIQUID n.o.s. (contains hydrocarbons)
Class	3	Packing group	III
Precautions	Flammable		

AIR TRANSPORT/IATA:

ICAO/IATA Class	3	ICAO/IATA subrisk	None
UN number	1993	Packing group	III
Special Provisions	A3		
Shipping name	FLAMMABLE LIQUID n.o.s. (contains hydrocarbons)		

Maritime Transport IMDG:

IMDG Class	3	IMDG subrisk	None
UN number	1993	Packing group	III
EMS number	F-E, S-E	Special Provisions	None
Shipping name	FLAMMABLE LIQUID n.o.s. (contains hydrocarbons)		

SECTION 15. REGULATORY INFORMATION**TOXIC SUBSTANCE CONTROL ACT (TSCA) STATUS:**

The components of this product are listed on the TSCA inventory.

Risk Phrases: R10, R43, R65

Safety Phrases: S2-23-24-62

UN Hazard Class: 3

UN Pack Group: III

SECTION 16. PREPARATION INFORMATION

PREPARED BY: Advanced Protective Technologies, LLC.

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