Safety Data Sheet
KBS UnderCoat - Water Based Asphalt

SDS Revision Date: **08/17/2021**

1. Identification

1.1. Product identifier

Product Identity	Water Based Asphalt Undercoating
Alternate Names	Product Name: Water Based Undercoating Generic Class: Asphalt Emulsion

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use	See Technical Data Sheet.
Application Method	See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

Company Name	Advanced Protective Technologies, LLC 1101 Cumberland Xing #180 Valparaiso, IN 46383 USA
Emergency	
Infotrac	800-535-5053
24 hour Emergency Telephone No.	800-535-5053
Customer Service:	219-263-0073

2. Hazard(s) identification

2.1. Classification of the substance or mixture

Physical Hazards: Not Classified
Health Hazards: Not Classified
Environmental Hazards: Not Classified
OSHA defined Hazards: Not Classified

2.2. Label elements

Hazard label: None.
Signal word: None.
Hazard Statement: The Mixture does not meet the criteria for classification.

[Prevention]:

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and or smoking.

[Response]:

Wash Hands after Handling.

[Storage]:

Store away from incompatible materials.

[Disposal]:

Dispose of waste and residues in accordance with local authority requirements.

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %
Asphalt **CAS Number: 8052-42-4**	**40 – ≤ 50**
Water **CAS Number: 7732-18-5**	**40- ≤ 50**
Cellulose **CAS Number: 9004-34-6**	**≤ 1**
Kaolin **CAS Number: 1332-58-7**	**≤ 0.2**
Other components below reportable levels	**0-10**

* Designates that in accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

4. First aid measures

4.1. Description of first aid measures

General In all cases of doubt, or when symptoms persist, seek medical attention.
Never give anything by mouth to an unconscious person.

Inhalation If Breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call physician if symptoms develop or persist.

Eyes Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Skin If clothing sticks to the skin, do not remove. Lotion or hand cream may aid in the removal of asphalt. Wash contact areas with soap and water. If needed, seek medical attention.

Ingestion Rinse mouth. Do not induce vomiting. Get medical attention immediately. If ingestion of a large amount does occur, call a poison control center immediately.

4.2. Most important symptoms and effects, both acute and delayed

Overview EFFECTS OF OVER EXPOSURE

INHALATION: Prolonged inhalation may be harmful.

EYE CONTACT: Harmful in contact with eyes. Injuries to the eye may be permanent if not treated immediately.

SKIN CONTACT: May cause skin disorders if contact is prolonged

INGESTION: Expected to be a low ingestion hazard.

CHRONIC EXPOSURE EFFECTS: Prolonged skin contact may cause dermatitis.

GENERAL: Ensure that medical personnel are aware of the materials involved and take precautions to protect themselves. Treat Symptomatically.

5. Fire-fighting measures

5.1. Extinguishing media

Foam. Dry Chemical powder. Carbon dioxide(CO_2)
Do not use water jet as an extinguisher

5.2. Special hazards arising from the substance or mixture

During fire, gasses hazardous to health may be formed.

5.3. Advice for fire-fighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighter's protective clothing will only provide limited protection.

EXPLOSION DATA:

None

5.4 Fire Fighting equipment instructions

ALWAYS stay away from tanks engulfed in flame. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Move containers from fire area if you can do so without risk. In the event of fire, cool tanks with water spray

5.5. Specific methods

In the event of fire and/or explosion do not breathe fumes. In the event of fire, cool tanks with water spray.

5.6. General fire Hazards

No unusual fire or explosion hazards noted

ERG Guide No. ---

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/ leak. Keep out of low areas. Do no touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. For personal protection, see section 8.

6.2. Environmental precautions

Do not allow spills to enter drains or waterways. Avoid discharge into water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, were this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas.

Small spills: wipe up with absorbent material (e.g. cloth, fleece).Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Ventilate area and avoid breathing vapors or mist.

Prevent the product or any wash waters from entering the water systems or sewers. Wear a NIOSH/OSHA approved organic vapor canister respirator. Wear protective clothing such as safety eyewear, overalls, impervious boots, and chemical resistant gloves.

7. Handling and storage

7.1. Precautions for safe handling

Avoid prolonged exposure. Use only in well ventilated areas. Trace amounts of hydrogen sulfide, a very highly toxic gas, may be present with this material. Keep face clear of tank and/or tank car openings. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site.

7.2. Conditions for safe storage, including any incompatibilities

Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see section 10). Do not allow material to freeze.

7.3. Specific end use(s)

No data available.

8. Exposure controls and personal protection

8.1. Control parameters

Exposure

SDS Revision Date: **08/17/2021**

CAS No.	Ingredient	Source	Value
9004-34-6	Cellulose	OSHA	PEL 5mg/m^3
		ACGIH	TWA 10mg/m^3
		NIOSH	TWA 5 mg/m^3 Respirable 10mg/m^3 Total
		Supplier	No Established Limit
1332-58-7	Kaolin	OSHA	PEL 15mg/m^3 Total Dust 5mg/m^3 Respirable fraction
		ACGIH	TWA 2mg/m^3 Respirable fraction
		NIOSH	TWA 10mg/m^3 Total / 5 mg/m^3 Respirable

CAS No.	Ingredient	Source	Value
8052-42-4	Asphalt	ACGIH	TWA 0.5mg/m^3 Inhalation Fraction
		NIOSH	Ceiling 5 mg/m^3 Fume
		Supplier	No Data Available

No biological exposure limits noted for the ingredient(s)

8.2. Exposure controls

Respiratory When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Eyes Chemical goggles and face shield are recommended. Wear safety glasses with side shields (or goggles).

Skin Chemical resistant gloves are recommended. If contact with forearms is likely wear gauntlet style gloves

Engineering Controls Good ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Thermal Hazards Wear appropriate thermal protective clothing when necessary

Other Work Practices Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

See section 2 for further details. - [Prevention]:

9. Physical and chemical properties

Appearance	Heavy-consistency emulsion
Odor	Mild Petroleum Odor
Odor threshold	N/A
pH	5-7
Melting point / freezing point	N/A
Initial boiling point and boiling range	>212°F(> 100°C)
Flash Point	>212.0°F(>100.0°C)
Evaporation rate (Ether = 1)	NA
Flammability (solid, gas)	Not Available
Upper/lower flammability or explosive limits	**Lower Explosive Limit:** N/A **Upper Explosive Limit:** N/A
Vapor pressure (Pa)	60mm Hg at 100°F, Approx.
Vapor Density	NA
Relative Density	NA
Specific Gravity	1.1-1.2
Solubility in Water	Slightly Soluble
Partition coefficient n-octanol/water (Log Kow)	NA
Auto-ignition temperature	>400°F (>204.44°C)
Decomposition temperature	Not Measured
Flammability	Combustible III B Estimated
VOC Content	0.2lb/gal maximum
Density	9-10 lbs per gal
Percent Solids (by weight)	Not Measured
Percent Volatile (by weight)	Not Measured
Percent Solids (by volume)	Not Measured
Colors Available	NA
Physical State	Liquid
Form	Liquid
Color	Brown

9.2. Other information

No other relevant information.

10. Stability and reactivity

10.1. Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport

10.2. Chemical stability

Stable under normal temperature conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization does not occur.

10.4. Conditions to avoid

Avoid temperatures exceeding the flashpoint. Contact with incompatible materials. Do not overheat product.

10.5. Incompatible materials

Strong Oxidizing agents

10.6. Hazardous decomposition products

Upon decomposition this product may yield sulfur dioxide, carbon monoxide, Carbon Dioxide and/or low molecular weight hydrocarbons. Hydrogen Sulfide

11. Toxicological information

Acute toxicity

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Kaolin(CAS 1332-58-7)	>5000mg/kg, Rat	>5000mg/kg, Rat	No data available	No data available	No data available

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Expected to be low ingestion hazard
Acute toxicity (dermal)	---	No adverse effects due to skin contact are expected
Acute toxicity (inhalation)	---	Prolonged inhalation may be harmful
Skin corrosion/irritation	---	Prolonged skin contact may cause temporary irritation
Serious eye damage/irritation	---	Harmful in contact with eyes
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	May cause skin disorders if contact is repeated or prolonged
Germ cell mutagenicity	---	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	---	**IARC Monographs, Overall Evaluation of Carcinogenicity** Asphalt (CAS 8052-42-4) 2B Possible carcinogenic to humans 3 Not classifiable as to carcinogenicity to humans

		US. OSHA Specifically Regulated Substance (29 CFR 1910.1001-1050) Not Listed
Reproductive toxicity	---	Not classified
STOT-single exposure	---	Not classified
STOT-repeated exposure	---	Not classified
Aspiration hazard	---	Not Available

12. Ecological information

12.1. Ecotoxicity
Not expected to be harmful to aquatic organisms.

12.2. Persistence and degradability
No data is available on the degradability of this product.

12.3
Bioaccumulative potential
No Data Available

12.4
Mobility in Soil
No Data Available

12.5 Other adverse effects
No other adverse environmental effects (e.g. Ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

13.1. Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose in accordance with all applicable regulations. No components are identified as hazardous wastes. Disposal recommendations are based on uncontaminated material.

13.2 Local disposal regulations
Dispose in accordance with all applicable regulations.

13.3 Hazardous waste code
The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Not applicable

13.4 Waste from residues and unused products
Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (See: Disposal instructions). Avoid discharge into water courses or onto the ground.

13.5 Contaminated packaging
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT
Not regulated as dangerous goods.

IATA
Not regulated as dangerous goods.

IMDG
Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73 and 78 and the IBS Code
Not Available

15. Regulatory information

US Federal regulations
All components are on the U.S. EPA TSCS Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not Registered

CERCLA Hazardous Substace List (40 CFR 302.4)
Asphalt (CAS 8052-42-4) Listed

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not Listed

Superfund Amendments and reauthorization Act of 1986 (SARA)
Hazard Categories:

- Immediate Hazard: No
- Delayed Hazard: No
- Fire Hazards: No
- Pressure Hazards: No
- Reactivity Hazard: No

Sara 302 Extremely Hazardous substance
Not listed
SARA 331 and 312 Hazardous Chemical
No
SARA 313 (TRI reporting)
Not Regulated
Other Federal Regulations
Clean Air act (CAA) Section 112 Hazardous Air Pollutants (HAP s) List
Not regulated
Clean Air Act (CAA) Section 112® Accidental Release Prevention (40 CFR 68.130)
Not Regulated
Safe Drinking Water Act (SDWA)
Not Regulated

US State Regulations
Warning: This Product contains a chemical known to the state of California to cause cancer.

U.S. Massachusetts RTK- Substance List
Asphalt (CAS 8052-42-4)
Cellulose (CAS 9004-34-6)
Kaolin (CAS 1332-58-7)
U.S New Jersey Worker and Community Right - to- Know Act
Not Regulated
U.S Pennsylvania RTK-Hazardous Substances
Asphalt (CAS 8052-42-4)
Cellulose (CAS 9004-34-6)
Kaolin (CAS 1332-58-7)
U.S Rhode Island RTK
Not Regulated
U.S California Proposition 65
Warning: This product contains a chemical known to the state of California to cause cancer.
U.S- California Proposition 65-CRT: Listed date as a Carcinogenic Substance
Asphalt (CAS 8052-42-4) Listed: January 1, 1990

International Inventories

Country or Region	Inventory Name	On inventory (yes or no)
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List(DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List(ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No

16. Other information

Version # 01

Further information HMIS® is a registered trade and service mark of NPCA

References

ACGIH
EPA: AQUIRE Database
NLM: Hazardous Substance Data Base
US: IARC Monographs on Occupational Exposures to Chemical Agents
IARC Monographs Overall Evaluation of Carcinogenicity
National Toxicology Program (NTP) Report on Carcinogens
ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

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