



SAFETY DATA SHEET

1. Product and Company Identification

Product identifier	Paving Grades Group 1 - Bitumar USA US USA017
Other means of identification	Not available.
Synonym(s)	Baltimore: 5228, 5828, 58S28, 6422, 6428, 64E22, 64S22, 64V28, 7622, 76E28, 76E28HP, 8222 64E22AS.30(6240), 64E22AS.40(6240), 64E22AS.50(6240), 64E22AS.60(6240), 64S22AS.30, 64S22AS.50(6240) These grades contain AD-here® 62-40 (ZA70000) US The above grades with either NO or NOX added Douglasville: 6422, 6722, 7622 The above grades with either NO or NOX added
Recommended use	Asphalt
Recommended restrictions	None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name	Bitumar USA Inc.
Address	6000 Pennington Ave Baltimore MD 21226
Telephone	410-354-9550
E-mail	Not available.
Emergency phone number	Canada: 613-993-6666 or CANUTEC (transport only) *666 US: 1-800-424-9300 ChemTrec

2. Hazards Identification

Physical hazards	Not classified.
Health hazards	Carcinogenicity Category 2
Environmental hazards	Not classified.
OSHA defined hazards	Not classified.

Label elements



Signal word	Warning
Hazard statement	Suspected of causing cancer.
Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing, eye protection and face protection.
Response	IF exposed or concerned: Get medical attention.
Storage	Store locked up.
Disposal	Dispose of container in accordance with local, regional, national and international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/Information on Ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Asphalt		8052-42-4	80-100

Composition comments	<p>This product may contain small amounts of Hydrogen sulphide which may accumulate in confined spaces.</p> <p>US GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.</p>
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4. First Aid Measures

Inhalation	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention. For breathing difficulties, oxygen may be necessary.
Skin contact	In case of contact with molten product, cool rapidly with water and seek immediate medical attention. Do not attempt to remove molten product from skin because skin will tear easily. Cover wound with sterile dressing.
Eye contact	If hot product contacts eye, flush with water for at least 15 minutes and seek medical attention immediately. Remove contact lenses, if applicable, and continue flushing. Get medical attention immediately.
Ingestion	Rinse mouth. Do not induce vomiting. Obtain medical attention.
Most important symptoms/effects, acute and delayed	Inhalation of vapour can cause respiratory tract irritation or chemical burns. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. In high concentrations, hydrogen sulphide may produce pulmonary edema and respiratory depression or paralysis. Dusts may irritate the respiratory tract, skin and eyes. Direct contact can produce thermal burns.
Indication of immediate medical attention and special treatment needed	No attempt should be made to remove firmly adhering bitumen from the skin. If solvent treatment is used, it should be followed by washing with soap and water, then the application of a proprietary refatting agent or skin cleansing cream. Only medically approved solvents may be used to remove bitumen from burns, as other solvents could cause further skin damage.
General information	IF exposed or concerned: Get medical attention. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures

Suitable extinguishing media	Carbon dioxide. Dry chemical. Water spray. Foam.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Vapors will ignite and burn at temperatures exceeding the flash point.
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. In the event of fire, wear self-contained breathing apparatus.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	If product is heated above its flash point it will release flammable vapors which can burn in the open or be explosive in confined spaces if exposed to ignition source.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop the flow of material, if this is without risk. Leave the molten product to cool down. Remove solidified product mechanically. Following product recovery, flush area with water. Prevent entry into waterways, sewers, basements or confined areas. For waste disposal, see section 13 of the SDS.
Environmental precautions	Do not discharge into lakes, streams, ponds or public waters.

7. Handling and Storage

Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with hot material. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Avoid contact with eyes, skin and clothing. Use personal protective equipment as required. Avoid prolonged inhalation of vapor. Use only with adequate ventilation. Avoid prolonged exposure. Observe good industrial hygiene practices. Wash thoroughly after handling. When handling, do not eat, drink or smoke.
Conditions for safe storage, including any incompatibilities	Store locked up. Keep away from heat, sparks and open flame. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure Controls/Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Asphalt (CAS 8052-42-4)	TWA	0.5 mg/m ³	Inhalable fume.

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
Asphalt (CAS 8052-42-4)	Ceiling	5 mg/m ³	Fume.

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Asphalt (CAS 8052-42-4)	2.5 µg/l	1-Hydroxypyrene, with hydrolysis (1-HP)	Urine	*

* - For sampling details, please see the source document.

Appropriate engineering controls Mechanical ventilation should be used when handling this product in enclosed spaces. Local exhaust ventilation may be necessary.

Individual protection measures, such as personal protective equipment

Eye/face protection	Face shield or chemical goggles.
Skin protection	
Hand protection	Heat-protective gloves. Confirm with a reputable supplier first.
Other	For molten product, use any type rubber thermal insulating gloves and other clothing as necessary to protect from thermal burns. If clothing or footwear becomes contaminated with the product, remove it immediately and completely decontaminate it before re-use, or discard it.
Respiratory protection	Do not attempt rescue of a hydrogen sulfide 'knockdown' victim without the use of proper respiratory protective equipment. Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134), CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).
Thermal hazards	Not applicable.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. When handling, do not eat, drink or smoke.

9. Physical and Chemical Properties

Appearance	Viscous semi-solid at room temperature
Physical state	Solid.
Form	Viscous semi-solid at room temperature
Color	Brown to black
Odor	Asphalt
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	> 878 °F (> 470 °C)

Other information	
Pour point	Not available.
Specific gravity	Not available.
Partition coefficient (n-octanol/water)	Not available.
Flash point	> 446.0 °F (> 230.0 °C)
Evaporation rate	Not available.
Flammability (solid, gas)	Flammable solid.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Nil at 37.8°C (100°F)
Vapor density	Not available.
Relative density	> 1
Solubility(ies)	Insoluble
Auto-ignition temperature	> 698 °F (> 370 °C)
Decomposition temperature	Not available.
Viscosity	150 - 2500 cP (dynamic)
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Solubility (other)	Insoluble in alcohol, acids and alkalis. Soluble in oil turpentine, petroleum, carbon disulphide, chloroform, ether and acetone.

10. Stability and Reactivity

Reactivity	May react with incompatible materials.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Do not mix with other chemicals. Heat, open flames, static discharge, sparks and other ignition sources.
Incompatible materials	Oxidizers. Fluorine.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Oxides of sulfur. Polycyclic aromatic hydrocarbons (PAHs). Hydrogen sulphide.

11. Toxicological Information

Information on likely routes of exposure

Inhalation	Inhalation of vapors/fumes generated by heating this product may cause respiratory irritation with throat discomfort, coughing or difficulty breathing. Sense of smell may be impaired at concentrations of hydrogen sulphide at approximately 20 ppm, with headache and respiratory tract lung irritation. At 250 to 500ppm, potentially fatal pulmonary edema may occur. Dizziness, sudden (often fatal) collapse, unconsciousness and death occur at higher concentrations. Pulmonary edema may be delayed as long as 48 hours after exposure.
Skin contact	Second and third degree burns from contact with hot asphalt.
Eye contact	Fumes released during thermal processing may cause eye irritation.
Ingestion	Not a normal route of exposure. Contact with molten material may cause thermal burns. May cause stomach distress, nausea or vomiting.
Symptoms related to the physical, chemical and toxicological characteristics	Contact with molten material may cause thermal burns.

Information on toxicological effects

Acute toxicity	See below.
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Components	Species	Test Results
Asphalt (CAS 8052-42-4)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg, 24 Hours, ECHA
<i>Inhalation</i>		
LC50	Rat	> 94.4 mg/m3, 4.5 Hours, ECHA
<i>Oral</i>		
LD50	Rat	> 5000 mg/kg, ECHA
Skin corrosion/irritation	Thermal burn hazard - contact with hot material may cause thermal burns.	
Exposure minutes	Not available.	
Erythema value	Not available.	
Oedema value	Not available.	
Serious eye damage/eye irritation	Fumes released during thermal processing may cause eye irritation.	
Corneal opacity value	Not available.	
Iris lesion value	Not available.	
Conjunctival reddening value	Not available.	
Conjunctival oedema value	Not available.	
Recover days	Not available.	
Respiratory or skin sensitization		
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to cause skin sensitization.	
Germ cell mutagenicity	Non-hazardous by OSHA criteria.	
Carcinogenicity	Hazardous by OSHA criteria. Suspected of causing cancer. See below.	
ACGIH Carcinogens		
Asphalt (CAS 8052-42-4)	A4 Not classifiable as a human carcinogen.	
California Proposition 65 - CRT: Listed date/Carcinogenic substance		
Asphalt (CAS 8052-42-4)		
IARC Monographs. Overall Evaluation of Carcinogenicity		
Asphalt (CAS 8052-42-4)	Volume 103 - 2B Possibly carcinogenic to humans.	
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)		
Asphalt (CAS 8052-42-4)	Not regulated.	
US. National Toxicology Program (NTP) Report on Carcinogens		
Asphalt (CAS 8052-42-4)	Known To Be Human Carcinogen.	
Reproductive toxicity	Non-hazardous by OSHA criteria.	
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not an aspiration hazard.	
Chronic effects	Prolonged inhalation may be harmful. Chronic exposure to vanadium may damage the kidneys. Repeated high exposure to vanadium may cause anemia. Acne-like lesions. Pigmentation of skin.	
Further information	Not available.	

12. Ecological Information

Ecotoxicity	Not available.
Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Mobility in general	Not available.
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

Disposal instructions	Allow product to cool and solidify. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	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).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

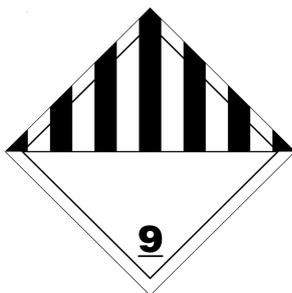
14. Transport Information

U.S. Department of Transportation (DOT)

Basic shipping requirements:

UN number	UN3257
Proper shipping name	Elevated temperature liquid, n.o.s., at or above 100 C and below its flash point (including molten metals, molten salts, etc.)
Technical name	Asphalt
Hazard class	9
Packing group	III
Special provisions	IB1, T3, TP3, TP29
Packaging exceptions	None
Packaging non bulk	None
Packaging bulk	247

DOT



15. Regulatory Information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance No

SARA 311/312 Hazardous chemical Yes

Classified hazard categories Carcinogenicity

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Asphalt (CAS 8052-42-4)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

Food and Drug Administration (FDA) Not regulated.

US state regulations WARNING: This product contains a chemical known to the State of California to cause cancer. See below

US - Minnesota Haz Subs: Listed substance

Asphalt (CAS 8052-42-4)

Asphalt (petroleum) fumes
Bitumens (extracts of steam-refined, air-refined, and pooled mixtures of steam and air refined)

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

US. Massachusetts RTK - Substance List

Asphalt (CAS 8052-42-4)

US. New Jersey Worker and Community Right-to-Know Act

Asphalt (CAS 8052-42-4)

US. Pennsylvania Worker and Community Right-to-Know Law

Asphalt (CAS 8052-42-4)

US. Rhode Island RTK

Asphalt (CAS 8052-42-4)

California Proposition 65



WARNING: This product can expose you to Asphalt, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

The entry for this component is under the generic listing of "Bitumens, extracts of steam-refined and air refined"

California Proposition 65 - CRT: Listed date/Carcinogenic substance

Asphalt (CAS 8052-42-4)

Listed: January 1, 1990

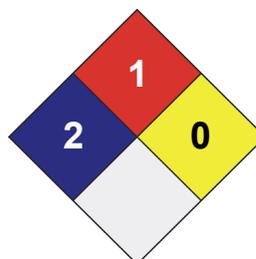
Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

16. Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH	* 2
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X



Disclaimer

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Further information Not available.

Other information For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.

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