Idaho Asphalt Supply, Inc

# SAFETY DATA SHEET
# Idaho Asphalt Supply, Inc.

**SDS #: 100**
DATE REVISED: 12/20/2017
SUPERSEDES ANY PREVIOUS

## Section 1 Product Identification/Contact Information

| | |
|---|---|
| **Generic Category:** | **Asphalt Cements** |
| **Product Name(s):** | Pitch, 0-Pen, 15-pen, 20-Pen, 30-Pen, 40-Pen, 50-Pen, 80-100, 120-150, 150-200, 200-300, 300-400, AC-5, AC-10, AC-20, AC-30, AC-40, AR-4000W, PG 46-34, PG46-40, PG52-34, PG 58-22, PG58H-22, PG 58-28, PG58S-28, PG 64-10, PG64-16, PG 64-22, PG64S-22, PG64-28, PF64S-28, PG70-10, PG70-22 |
| **Formula:** | Trade Secret |
| **Company Address:** | Idaho Asphalt Supply, Inc.<br>P.O. Box 50538<br>Idaho Falls, ID 83405<br>PHONE: (208) 524-5871 |
| **EMERGENCY PHONE:** | **Chemtrec (800) 424-9300** |
| **Product Use:** | Road Paving and Resurfacing |

## Section 2 Hazard(s) Identification

| | |
|---|---|
| **Classifications:** | Skin Irritation – Category 2<br>Eye Irritation – Category 2A<br>Carcinogenicity – Category 2 |
| **Signal Word:** | WARNING |
| **Hazards:** | May cause irritation and burns to skin and eyes when brought in contact. |
| **Inhalation:** | This product is not likely to present an inhalation hazard during normal use. At elevated temperatures and in confined spaces, vapors may cause irritation of the respiratory tract. |
| **Skin Absorption:** | No significant symptoms indicative of skin absorption expected. |
| **Skin Irritation:** | Will cause burns when product is hot. May cause dermatitis and acne like lesion with prolonged exposure. |
| **Ingestion:** | Ingestion of this material can cause severe irritation or burns of the mouth, throat, esophagus, and stomach. May cause nausea and vomiting. |
| **Eye Contact:** | Will burn and irritate. |
| **Primary Route of Exposure:** | Skin and eye contact are the primary routes of exposure to this product. |
| **Carcinogen:** | The International Agency for Research on Cancer (IARC) concluded that occupational exposures to asphalt fume during paving operations are "possibly carcinogenic to humans" (Group 2B). |

## Section 3 Composition/Information on Ingredients

| Ingredients | CAS # | Concentration |
|---|---|---|
| Asphalt Cement | 8052-42-4 | 98 to 100% |
| Anti-strip Additive | Trade Secret | < 2% |
| Hydrogen Sulfide | 7783-06-04 | Trace |
| Polycyclic aromatic hydrocarbons | 130498-29-2 | < 0.1% |

## Section 4 First Aid Measures

**Inhalation:** Remove to fresh air. Give oxygen or artificial respiration as needed. Obtain medical attention promptly.

**Eye Contact**: Flush eyes with low pressure water for at least 15 minutes and obtain medical attention immediately.

**Skin Contact:** If hot product should contact skin, thermal burns will result. Immediately cool the affected area with cold water. It is not advisable to immediately remove product. Natural separation will occur in 48 -78 hours. Removal should be attempted only under the direction of a physician.

**Ingestion:** If ingested, do not induce vomiting, call a physician immediately.

## Section 5 Fire Fighting Measures

**Flash Point:** > 260°C (500°F)

**Autoignition Temperature NFPA:** Not Available

**Extinguishing Media:** Dry Chemical, $CO_2$, Class "B" extinguisher or foam. **DO NOT APPLY WATER**

**Special Fire Fighting Procedures:** Avoid breathing vapors, wear self-contained breathing apparatus.

**Unusual Fire Explosion Hazards:** Water in contact with hot asphalt may result in a violent reaction causing an increase in tank pressure and substantial foaming of the product.

**Fire & Explosion Hazards:** LEL and UEL not listed by NFPA. Flammable at temperatures above 260°C (500°F).

| **Hazard Rating:** | **HMIS** | **NFPA** |
|---|---|---|
| Health: | 1 | 1 |
| Fire: | 1 | 1 |
| Reactivity | 0 | 0 |
| Special Fire Fighting Procedures: | 0 | 0 |

Hazard Rating Scale

0 - Minimal
1 - Slight
2 - Moderate
3 - Serious
4 - Severe

## Section 6 Accidental Release Measures

**Notification and Personal Precautions:** In the event of a spill or accidental release, immediately contact emergency personnel and notify relevant authorities in accordance with all applicable regulations. If the release of this material to the environment could reach any waterway including intermittent dry creeks, contact the National Response Center at (800)424-8802.

**Land Spill:** Stop release by making earthen dike, prevent flow from entering sewers and water ways. Allow to cool. Remove large spill. Soak up product with sand.

**Waste Disposal**: Handle in accordance with federal, state and local regulations.

## Section 7 Handling and Storage

**Precautions for safe handling:** Use only in well-ventilated areas. Do not smoke near areas where material is handled or stored. The product should only be used in areas where electrical classification meets the product rating for this product, i.e. intrinsically safe. Use only in area provided with appropriate exhaust ventilation. Vapors may form explosive mixtures with air.

**Conditions for safe storage:** Product is generally transported and stored hot (typically at temperatures above 110°C (230°F) and below 177°C (350°F)). Handle as a combustible liquid.Keep away from heat, sparks, and open flame! Electrical equipment should be approved for classified area. Bond and ground containers during product transfer to reduce the possibility of static-initiated fire or explosion. Consult API Recommended Practice 2023 for additional guidance. Store distant from fire and ignition sources. No smoking near areas where material is stored or used. Keep away from flame, sparks, excessive temperatures and open flame. Use approved vented containers. Keep containers closed and clearly labeled. Empty product containers or vessels may contain explosive vapors. Do not pressurize, cut, heat, weld or expose such containers to sources of ignition.

## Section 8 Exposure Controls/Personal Protection

| Chemical Name | PEL (OSHA) | STEL (OSHA) | STEL (ACGIH) | TWA (ACGIH) |
|---|---|---|---|---|
| Asphalt Cement Fumes | | | | 0.5 mg/m$^3$ |
| Hydrogen Sulfide | | 20 ppm | 5 ppm | 1 ppm |

**Respiratory Protection:** Avoid breathing vapors in confined spaces. NOISH approved respirators may be required if TLV's are exceeded.

**Eye Protection:** Use safety glasses, goggles or face shields.

**Skin Protection:** PPE selection based on the specific use conditions. When handling product at elevated temperatures, use long-cuffed heat resistant gloves. When product is at ambient temperatures, use gloves constructed of chemical resistant materials such as heavy nitrile rubber. Use coveralls, impervious apron and long sleeved shirts and wear impervious footwear

**Engineering Controls:** Local exhaust ventilation may be required to meet exposure standards in confined areas.

**Handling Precautions:** Storage tanks and trucks must be emptied, cooled, ventilated, and tested for absence of vapors before allowing personnel entry.

## Section 9 Physical & Chemical Properties

| | | | |
|---|---|---|---|
| **Boiling Point:** | > 480°C (900°F) | **Vapor Density (Air= 1) :** | >1 |
| **Specific Gravity @ 15.6°C (60°F):** | 0.98 to 1.15 | **Evaporation Rate (nBuAc = 1) :** | <1 |
| **Viscosity:** | < 3000 mPas at 135°C (275°F) | **Solubility in Water:** | Insoluble |
| **Melting Point:** | Not Established | **Vapor Pressure (mm Hg):** | <1 |
| **Appearance and Odor:** | Black liquid or solid; odor of hydrocarbons | | |

## Section 10 Stability and Reactivity

**Stable:** YES
**Conditions to Avoid:** DO NOT APPLY WATER, Open flame and extreme heat.
**Incompatible Materials:** Avoid strong oxidizing agents.
**Hazardous Decomposition Products:** Combustion may form $CO_2$, CO and sulfur dioxide.
**Hazardous Polymerization:** Will not occur.

## Section 11 Toxicological Information

**Information on likely routes of exposure**

**Ingestion:** Expected to be a low ingestion hazard.
**Inhalation:** Prolonged inhalation may be harmful.
**Skin contact:** Thermal burn hazard.
**Eye contact:** Harmful in contact with eyes

**Information on toxicological effects**

| Ingredient | Result | Species | Dose | Exposure |
|---|---|---|---|---|
| **Asphalt** | LD50 Dermal | Rabbit | >2000 mg/kg | - |
| | LD50 Oral | Rat | >5000 mg/kg | - |

**Irritation/Corrosion:** Direct contact with skin and eyes may cause irritation

**Carcinogenicity**

**NTP:** Asphalt (CAS-No.: 8052-42-4), may contain trace amounts of benzene a chemical known to cause cancer.

**IARC:** Asphalt (Bitumen) (CAS-No.: 8052-42-4) Group 2B possibly carcinogenic to humans

**OSHA:** Asphalt (CAS-No.: 8052-42-4), may contain trace amounts of benzene a chemical known to cause cancer.

**Teratogenicity**

**Specific target organ toxicity (single exposure):** Not Available.
**Specific target organ toxicity (repeated exposure):** Not Available.
**Aspiration hazard:** Not Available.
**Information on the likely routes of exposure:** Routes of entry anticipated: Oral, Dermal, Inhalation.

**Delayed and immediate effects and also chronic effects from short and long term exposure**

**Short term exposure**

**Potential immediate effects:** Not Available
**Potential delayed effects:** Not Available

**Long term exposure**

**Potential immediate effects:** Not Available
**Potential delayed effects:** Not Available

**Potential chronic health effects**

**General:** Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Carcinogenicity:** Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

**Mutagenicity:** No known significant effects or critical hazards.

**Teratogenicity:** No known significant effects or critical hazards.

**Developmental effects:** No known significant effects or critical hazards.

**Fertility effects:** No known significant effects or critical hazards.

**Numerical measures of toxicity**

**Acute toxicity estimates:** Not Available.

## Section 12 Ecological Information

**Eco-toxicity:** This material is not expected to have a significant adverse effect on the environment

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

**Bioaccumulative potential:** No data available.

**Mobility in soil:** No data 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.

## Section 13 Disposal Consideration

**Disposal:** Recover as much spilled material as possible for reuse or recycling. Disposal of waste material must be conducted in accordance with RCRA regulations (see 40CFR 260 through 40 CFR 271).

## Section 14 Transportation Information

**CFR**

| | |
|---|---|
| Proper shipping name: | Elevated temperature liquid, n.o.s. (Asphalt) |
| UN-No.: | 3257 |
| Class: | 9 |
| Packing group: | III |
| Hazard inducer: | (Asphalt) |

**TDG**

| | |
|---|---|
| Proper shipping name: | Elevated temperature liquid, n.o.s. (Asphalt) |
| UN-No.: | UN3257 |
| Class: | 9 |
| Packing group: | III |
| Hazard inducer: | (Asphalt) |

**IATA Cargo Transport**

| | |
|---|---|
| UN-No.: | UN3257 |
| Class: | 9 |
| | **Not regulated under 100°C (212°F)** |

**IATA Passenger Transport**

| | |
|---|---|
| UN-No.: | UN3257 |

| | |
|---|---|
| Class: | 9 |
| | **Not regulated under 100°C (212°F)** |

**IMDG-Code**

| | |
|---|---|
| UN-No.: | UN3257 |
| Description of the goods: | Elevated temperature liquid, n.o.s. (Asphalt) |
| Class: | 9 |
| Packaging group: | III |
| IMDG-Labels: | F-A S-P |
| EmS Number: | No |

## Section 15 Regulatory Information

**CERCLA SECTION 103 and SARA SECTION 304 (RELEASE TO THE ENVIROMENT)**

The CERCLA definition of hazardous substances contains a “petroleum exclusion” clause which exempts crude oil. Fractions of crude oil, and products (both finished and intermediate) from the crude oil refining process and any indigenous components of such from the CERCLA Section 103 reporting requirements. However, other federal reporting requirements, including SARA Section 304, as well as the Clean Water Act may still apply.

| | |
|---|---|
| **TSCA Status:** | On TSCA Inventory |
| **DSL Status:** | All components of this product are on the Canadian DSL list. |
| **SARA 311/312 Hazards:** | Acute Health Hazard |
| **California Prop. 65:** | WARNING! This product contains a chemical known to the State of California to cause cancer.<br>Asphalt 8052-42-4 |

## Section 16 Other Information

Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product itself. The information in this SDS was obtained from sources which we believe reliable. However, the information is provided without any warranty, expressed or implied, regarding its correctness.
The conditions or methods of handling, storage, use and disposal of the products are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

This SDS was prepared and is to be used only for these products. If the product is used as a component in another product, this SDS information may not be applicable.

This SDS has been prepared in accordance with the requirements of the OSHA Hazardous Communication Standard (29 CFR 1200)