

Material Safety Data Sheet

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I. PRODUCT AND COMPANY IDENTIFICATION

Product Name: ARROWLITH DENSE BLACK
Product Code: 300-CTK371
MSDS Code: MSD-00065695
Revision Number: 8
Revision Date: 2012-04-16 09:39:12

II. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	%
Asphalt	1 - 5
Linseed oil, polymd., oxidized	1 - 5
Solvent Naphtha (Petroleum) Medium Aliphatic	0.5 - 1.5

Please see Section VIII for product and component exposure guidelines.

Components not listed are not physical or health hazards as defined in 29 CFR 1910.1200 (Hazard Communication Standard).

III. HAZARDS IDENTIFICATION

HMIS Rating **Health:** 1 **Flammability:** 2 **Reactivity:** 0

This product falls under the following WHMIS class:

D1A

B3

Routes of Entry: Inhalation, Skin contact, Eye contact

Immediate (Acute) Health Effects by Route of Exposure

Inhalation: Can cause minor respiratory irritation, dizziness, weakness, fatigue, nausea, and headache. Harmful! Can cause systemic damage.

Skin Contact: Can cause minor skin irritation.

Eye Contact: Can cause minor irritation, tearing and reddening.

Ingestion: Mildly irritating to mouth, throat, and stomach. Can cause abdominal discomfort.

Long-Term (Chronic) Health Effects

Reproductive and Developmental: No data available to indicate product or any components present at greater than 0.1% may cause birth defects.

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Mutagenicity: No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.

Inhalation: Upon prolonged and/or repeated exposure, can cause minor respiratory irritation, dizziness, weakness, fatigue, nausea, and headache. Harmful! Can cause systemic damage upon prolonged and/or repeated exposure.

Skin Contact: Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage. Upon prolonged or repeated exposure, minimal hazard in normal industrial use. May cause gastrointestinal discomfort.

Ingredients of this product appear on the following OSHA identified carcinogen lists at $\geq 0.1\%$ by weight (yes/no):

OSHA	No	NTP	No	IARC 1 & 2A	No	NIOSH	Yes
				IARC 2B	Yes		

IV. FIRST-AID MEASURES

Inhalation: Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately.

Eyes: Use an eye wash to remove a chemical from your eye regardless of the level of hazard. Flush the affected eye for at least twenty minutes. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Seek medical advice after flushing.

Skin Contact: Wash with soap and water.

Ingestion: Minimal risk of harm if swallowed. Do not induce vomiting. Seek medical attention immediately. Provide medical care provider with this MSDS.

V. FIRE FIGHTING MEASURES

Flammability Summary: Combustible NFPA II (NFPA description only; not to be used for shipping purposes)

Extinguishing Media: Use alcohol resistant foam, carbon dioxide, dry chemical, or water spray when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the fire. Do not direct a water stream directly into the hot burning liquid.

Fire and/or Explosion Hazards: Vapors may be ignited by sparks, flames or other sources of ignition if material is above the flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and flash back.

Fire Fighting Methods and Protection: Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

Flash Point: 38 C (100 F) - 60 C (140F)

Firepoint: Firepoint not determined.

VI. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section VIII of this MSDS

VII. HANDLING AND STORAGE

Handling	Harmful or irritating material. Avoid contacting and avoid breathing the material.
Precautions:	Use only in a well ventilated area. As with all chemicals, good industrial hygiene practices should be followed when handling this material.
Storage Conditions:	Store in a cool dry place. Isolate from incompatible materials. Keep away from sources of ignition.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures:	General room ventilation might be required to maintain operator comfort under normal conditions of use.
Respiratory Protection:	General or local exhaust ventilation is the preferred means of control. If general or local exhaust ventilation is not available or sufficient to control or eliminate symptoms as described in Section III, respiratory protection should be used.
Eye Protection:	Wear safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Have an eye wash station available.
Skin Protection:	Wear protective gloves. Inspect gloves at regular intervals and replace as necessary. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.
Gloves:	Wear impervious material no specific details available.

Exposure Guidelines:

Chemical Name	OSHA Exposure Limits	ACGIH TLV - TWA	ACGIH STEL	IDLH
Asphalt		5 MG/M3 TWA	No STEL	Not on list
Linseed oil, polymd., oxidized		No TLV	No STEL	Not on list
Solvent Naphtha (Petroleum) Medium Aliphatic		No TLV	No STEL	Not on list

If this product is provided in a dry powder state it should be considered a nuisance dust (PEL 10 mg/m3).

If the processing of this product produces a mist it should be considered to be an oil mist with a PEL of 5 mg/m3.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid, semi-solid, or solid
Solubility in Water:	Not determined
Volatiles, % by wt:	73.46
Volatiles, % by vol:	81.58
Volatile Organic Chemicals % by wt:	4.14
Volatile Organic Chemicals % by vol:	4.8
VOC lb/gal	0.35
VOC lb/gal (less water):	0.35
Solids % by weight:	26.54
Solids % by volume	18.42
Specific Gravity:	1.02
Bulk Density (Lb/Gal):	8.5

X. STABILITY AND REACTIVITY

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Stability: Stable under normal conditions.
Conditions to Avoid: Temperatures above flash point in combination with sparks, open flames, or other sources of ignition.
Materials to Avoid/Chemical Incompatibility: Strong oxidizing agents.

XI. TOXICOLOGICAL INFORMATION

Component Toxicology Data (NIOSH):

Chemical Name

Asphalt

Linseed oil, polymd., oxidized

Solvent Naphtha (Petroleum) Medium Aliphatic

LD50/LC50

Oral LD50 Rat >5000 mg/kg; Dermal LD50

Rabbit >2000 mg/kg

No data available

Inhalation LC50 Rat >5.28 mg/L 4 h; Oral

LD50 Rat >5000 mg/kg; Dermal LD50 Rabbit 3000 mg/kg

XII. DISPOSAL CONSIDERATIONS

Waste Description for Spent Product: Spent or discarded material may be a hazardous waste.

Disposal Methods: Dispose in accordance with Federal, State, Provincial and Local regulations. Material may be compatible with industrial waste incineration or inclusion in a fuel blending program. This characterization is subject to approval by your waste management contractor. This material should be recycled if possible.

XIII. REGULATORY INFORMATION

TSCA Status All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

Chemical Name	CAS #	Regulation	Percentage
Not on list		CERCLA	
Not on list		HAP	
Solvent naphtha (petroleum), medium aliph.	64742-88-7	NPRI (Cdn)	1.26
Not on list		PROP 65	
Not on list		SARA 313	
Not on list		SARA EHS	

The following items require export notification for TSCA

Chemical Name

Not on list

TSCA 12b list section

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations and the MSDS contains information required by the Controlled Products Regulations.

XIV. ADDITIONAL INFORMATION

References:

Disclaimer: Flint Group has prepared this Material Safety Data Sheet ("MSDS") in compliance with 29 CFR 1910.1200, understands that its customers may use this MSDS to comply with that section, and believes that the data set forth herein are accurate as of the date hereof; however, this MSDS shall not constitute a warranty with respect thereto.

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