

MATERIAL SAFETY DATA SHEET

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HMIS HAZARD RATING

HEALTH	2
FIRE	0
REACTIVITY	0
PERSONAL PROTECTION	X

Date of Review: March 12, 2007

Revised: October 6, 2011

Date of Preparation: December 1990

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SECTION I: PRODUCT IDENTIFICATION

Product Name: **SAFECOTE A**
Chemical Family: Water, Additive Blend
Material Usage: Corrosion Preventive/Lubricant Compound

EMERGENCY OVERVIEW: Water-based product. Alkaline liquid; may be irritating to eyes and skin. Refer to Section 3 for health effects and to Section 5 for fire hazard data.

SECTION II: HAZARDOUS INGREDIENTS

Component	Wt%	Recommended Exposure Limits (TWA)
Petroleum Oil (Severely solvent-refined and/or severely hydrotreated) CAS #64741-96-4 and/or #64742-52-5	20-25	OSHA PEL: Not Established ACGIH TLV: 5 mg/m ³ (mists)
Oxidized Polyethylene CAS #68441-17-8	5-10	OSHA PEL: None Established ACGIH TLV: None Established
¹ Petroleum Asphalt CAS #8052-42-4	2	ACGIH TLV: 5 mg/m ³ (for fumes) NIOSH: 5 mg/m ³ (ceiling limit)
Morpholine CAS #110-91-8	2	OSHA PEL: 20 ppm (skin) STEL: 30 ppm
Sodium Hydroxide CAS #1310-73-2	<0.5	OSHA PEL: 2 mg/m ³ ACGIH TLV: 2 mg/m ³

¹See Section 3.

SECTION III: HEALTH HAZARD INFORMATION

Primary Routes of Entry: Skin absorption, inhalation.

Acute Effects: May cause severe eye irritation and reversible skin irritation. Prolonged skin exposure may cause dermatitis or oil acne. Breathing mists may cause pulmonary irritation or dizziness. Excessive inhalation may produce dizziness, nausea, headache, and incoordination.

Chronic Effects: Asphalt vapors (unlikely in typical uses) may contain polycyclic aromatic hydrocarbons, some of which are known to be carcinogenic. Therefore, prolonged breathing of vapors should be avoided.

Special Remarks: Some asphalts may contain hydrogen sulfide (CAS #7783-06-4) ACGIH TLV = 10 ppm. Hydrogen sulfide (HS) may accumulate in storage tanks and bulk transport compartments containing asphalts. Prolonged breathing of low levels of HS will produce eye/respiratory tract irritation; extremely high levels (1000 ppm) can cause unconsciousness/death.

Carcinogenicity: In March, 1987, IARC classified bitumens (such as petroleum asphalt in this product) as a Group 3 material, "not classifiable as to its carcinogenicity to humans." This was based on inadequate evidence for the carcinogenicity of undiluted air-refined bitumens in experimental animals and inadequate evidence that bitumens alone are carcinogenic to humans. However, asphalt does contain a small amount of polycyclic aromatic hydrocarbons which have been shown to cause cancer and respiratory damage in animals. NIOSH recently conducted mouse skin painting studies using selected fractions of asphalt fume condensate. Skin application of the condensate fractions resulted in skin tumors in laboratory mice.

Pre-Existing Medical Conditions Aggravated by Exposure: Exposure may aggravate pre-existing respiratory or skin problems.

SECTION IV: FIRST AID PROCEDURES

Inhalation: Move victim to fresh air and call emergency medical care. If not breathing, give artificial respiration; if breathing is difficult, give oxygen.

Eyes: In case of contact with material, immediately flush eyes with running water for at least 15 minutes. Seek immediate medical attention.

Skin: Wash skin with soap and water. Remove and isolate contaminated clothing and shoes at the site.

Ingestion: DO NOT INDUCE VOMITING. Consult a physician. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

SECTION V: FIRE AND EXPLOSION HAZARD DATA

Flash Point: Not Applicable (Water Based Fluid)
Explosive Limits: LEL =Not Determined UEL = Not Determined

EXTINGUISHING MEDIA:

Small Fires: Dry chemical, CO₂, water spray, or regular foam.

Large Fires: Water spray, fog, or regular foam.

Special Firefighting Protection/Emergency Action: Fire may produce irritating or poisonous gases. Positive pressure self-contained breathing apparatus (SCBA) and structural firefighters' protective clothing will provide limited protection. If runoff from fire control occurs, notify the appropriate authorities.

Unusual Fire/Explosion Hazards: None

Products of Combustion: Carbon monoxide, carbon dioxide, miscellaneous hydrocarbons.

SECTION VI: SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Steps to be Taken in case Material is Released or Spilled: Shut off ignition sources; no flares, smoking or flames in hazard area. Stop leak if you can do it without risk.

Small Spills: Take up with sand or other noncombustible absorbent material and place into containers for later disposal.

Large Spills: Dike far ahead of liquid spill for later disposal.

SECTION VII: SAFE HANDLING INFORMATION

Precautions To Be Taken In Handling/Storage: Store in cool, well-ventilated area. Keep away from flames, sparks or hot surfaces. Never use a torch to cut or weld on or near container. Empty containers can contain explosive vapors.

Other Precautions: Never wear contaminated clothing. Launder or dry clean before wearing. Discard oil-soaked shoes. Wash thoroughly with soap and water (waterless hand cleaner may be helpful in removing residues) after use and before smoking or eating. Avoid excessive skin contact.

SECTION VIII: EXPOSURE CONTROLS

Respiratory Protection: NIOSH-approved respirator for organic vapor and mist to control exposure where ventilation is inadequate.

Ventilation: General and local exhaust.

Personal Protective Equipment: Protective Gloves: Impervious gloves (Viton, PVOH, etc.)

Eye Protection: Safety glasses with sideshields or chemical goggles.

Other Protective Clothing or Equipment: If splashing is anticipated, wear rubber apron and boots or other protective equipment to minimize contact.

SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

Color:	Dark Amber
Appearance:	Viscous Liquid
Odor:	Amine Type
Boiling Point (initial):	212 °F.
Evaporation Rate (water=1):	1
Vapor Pressure (mmHg @ 20 °C):	Not Determined
Vapor Density (air=1):	>1
Solubility in Water:	Miscible
Specific Gravity:	0.96
pH:	9-11
Percent Volatile by Volume:	56

SECTION X: REACTIVITY HAZARD DATA

Stability: Stable

Incompatibility: Strong acids, oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, miscellaneous hydrocarbons.

Hazardous Polymerization: Will not occur.

SECTION XI: TOXICOLOGICAL INFORMATION

None known.

SECTION XII: ECOLOGICAL INFORMATION

None known.

SECTION XIII: DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Dispose of in accordance with state, local and federal regulations. Materials may become a hazardous waste through use. If permitted, incineration may be practiced. Consider recycling solvent.

SECTION XIV: TRANSPORTATION INFORMATION

Totes, Drums, Pail & Kegs – Corrosion Preventive / Non-Hazardous

SECTION XV: REGULATORY INFORMATION

Volatile Organic Content: (Calculated Values)

VOC per gallon : 0.2 lbs/gal
VOC per gallon minus exempt solvents & water: 0.4 lbs/gal

EPA Hazardous Waste Number(s) (40 CFR Part 261): Not Applicable

EPA Hazard Category (40 CFR Part 370): DELAYED (CHRONIC)

SARA TITLE III:

This product contains the following TOXIC CHEMICALS subject to the Reporting Requirements of Sec. 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and of 40 CFR Part 372:

Chemical	CAS No.	Wt%
NONE		

This product contains the following EXTREMELY HAZARDOUS SUBSTANCE(S) subject to Emergency Planning Requirements under Sec. 301-303 (40 CFR Parts 300 and 355) and Emergency Release Notification Requirements under Sec. 304:

Chemical	CAS No.	Wt%	RQ/TPQ Lbs
NONE			

This product contains the following (CERCLA LIST) HAZARDOUS SUBSTANCE(S) subject to Emergency Release Notification Requirements under Sec. 304 (40 CFR Part 302):

Chemical	CAS No.	Wt%	Final RQ Lbs
NONE			

CALIFORNIA PROPOSITION 65:

This product may contain trace quantities chemicals that are identified by the State of California under the Safe Drinking Water and Toxic Reinforcement Act of 1986 ("Proposition 65") as either a carcinogenic or reproductive hazard:

Chemical	CAS No.	Estimated Concentration %
Polycyclic aromatic hydrocarbons	Unidentified	Trace

SECTION XVI: OTHER INFORMATION

Although the information contained herein is believed to be reliable, it is furnished without warranty of any kind. This information is not intended to be all-inclusive as to the manner and conditions of use, handling, and storage.