

# S&Y TERMINAL, LLC OWENSBORO, KENTUCKY

# SAFETY DATA SHEET for CATIONIC EMULSIFIED ASPHALT

## 1. Identification

**Product Name:** CATIONIC EMULSIFIED ASPHALT

**Common Names:** 

Tack Oil, Asphalt Emulsion, AE-TC; CMS-2 (E-5); CMS-2R; CMS-2S; CRS-1P; CRS-2; CRS-2 (E-3); CRS-2 PM

(E-3M); CRS-2L; CRS-2P; CRSP; CSS-H (E-8C); CSS-1; CSS-1H; E-12

**Supplier's Name:** Emergency Telephone Number:

S&Y Terminal, LLC 270-783-1435

**Address:** 4814 Highway 2830 **Telephone Number for Information:** 

Owensboro, KY 42303 270-781-3998 ext. 227

**Internet Web Site: www.scottyscontracting.com** 

# 2. Hazard(s) Identification

#### **Classification**

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion / irritation	Category 2
Serious eye damage / eye irritation	Category 2A
Carcinogenicity	Category 2
Acute aquatic toxicity	Category 3

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## **Hazards Not Otherwise Classified (HNOC)**

Hot liquid may cause thermal burns May release hydrogen sulfide gas

#### **Label elements**

#### **EMERGENCY OVERVIEW**

## Warning

Contact with product at elevated temperatures can result in thermal burns
May release highly toxic hydrogen sulfide gas that quickly fatigues the sense of smell
Causes skin irritation
Causes serious eye irritation
Suspected of causing cancer
Harmful to aquatic life





**Appearance** Black-brown solid or semi-solid at room temperature. Liquid at temperatures >70°C.

Physical State Liquid

**Odor** Hydrocarbon / Tar

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#### **Precautionary Statements - 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/face protection

Wash hands and any possibly exposed skin thoroughly after handling

Avoid release to the environment

#### **Precautionary Statements - Response**

IF exposed or concerned: Get medical attention

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing

If eye irritation persists: Get medical attention IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: Get medical attention

Take off contaminated clothing and wash before reuse

#### **Precautionary Statements - Storage**

Store locked up

#### **Precautionary Statements - Disposal**

Dispose of contents/container at an approved waste disposal plant

# 3. Composition/information on ingredients

This product is an Cationic Emulsified Asphalt mixed with varying proportions of Stoddard Solvent with a cationic emulsifier. May contain polymer modifiers. Composition varies depending on source of crude and specifications of final product. May contain minor amounts of sulfur, nitrogen and oxygen containing compounds.

#### **Composition Information:**

Name	CAS Number	% Concentration
Asphalt	8052-42-4	25-75
Stoddard Solvent	8052-41-3	0-10
Sulfur Compounds	Mixture	0-5
Polymer Modifier (SBS or SBR)	Mixture	0-5
Cationic Emulsifier (contains alkylamines)	Mixture	0.1-3.0
Naphthalene	91-20-3	0.01-0.2
Polycyclic Aromatic Hydrocarbons	Mixture	< 0.1
Hydrogen sulfide	7783-06-4	0-0.1

All concentrations are percent by weight unless material is a gas. Gas concentrations are in percent by volume.

#### 4. First-aid measures

#### First Aid Measures

General Advice:

Immediately address any airway, breathing, or circulation concerns. Contact EMS if the person is having trouble breathing, moving, or staying awake. Perform a quick assessment for other injuries that may be present including falls or from falling objects.

REMEMBER ABCC (AIRWAY, BREATHING, CIRCULATION, COOLING).

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#### **Inhalation:**

If symptoms of overexposure to asphalt fume develop, move to fresh air in a position comfortable for breathing. If symptoms or irritation occur, call a poison control center or doctor.

#### **Skin Contact:**

Hot material: DO NOT DELAY. Immediately immerse or place the affected skin under a water stream for at least 20 minutes. Urgent medical attention is required for burns to the face, eyes, hands, feet, genitalia, and for circumferential or large burn areas. GET MEDICAL ATTENTION IMMEDIATELY.

Do not attempt to remove solidified asphalt if not a physician. Leave burn uncovered. Ice (or "cold packs") may be used in the event that water is unavailable. Only remove clothing if not adhering to the skin. Be aware that although it is very important to cool the burn thoroughly and completely, the overuse of ice may increase the risk of hypothermia.

Cold material: To remove cold asphalt not associated with a burn, wash with soap and water or waterless cleaner. If symptoms or irritation or rash occur, call a poison control center or doctor.

#### **Eye Contact:**

Hot material: After contact with hot asphalt, lay the person flat on their back, remove contact lenses if easy to do, and flush with water from a continuous stream for at least 20 minutes by allowing the water to flow over the bridge of the nose to the eyes. GET MEDICAL ATTENTION IMMEDIATELY.

Cold material: If irritation develops, flush eyes with water. If irritation or redness persists call a poison control center or a doctor.

#### **Ingestion:**

Ingestion not likely. Small amounts of ingested asphalt usually require no treatment. If large amounts are swallowed, call a poison control center or doctor.

#### Most important signs and symptoms, both short-term and delayed with overexposure

#### **Adverse Effects:**

Frequent or prolonged contact with cold material may cause irritation. Additional effects may include skin sensitization. Exposure to hot melted material can cause thermal burns.

#### Indication of any immediate medical attention and special treatment needed

**Notes To Physician:** Immediately address any airway, breathing, or circulation concerns.

SKIN & EYE CONTACT: Prolonged flushing/cooling is necessary if the patient is treated on scene or soon after asphalt contact. Topical antibiotics should be liberally applied to the adhered asphalt-skin interface to aid in asphalt removal. A non-adherent material, such as Adaptic®, can then be applied and covered with sterile gauze. If topical antibiotics are not available, other materials that may be effective include mineral oil, baby oil, petroleum jelly (e.g. Vaseline®), mayonnaise, or butter. Do not use organic solvents such as kerosene, gasoline, or ethanol, as these can result in tissue damage or a fire hazard. Dressings should be changed every 4 hours until natural separation occurs. Initiate standard burn management at that time. Once cooled, adhered asphalt is not harmful to the skin, and in fact, provides a sterile cover over the affected area. The asphalt will detach itself within a few days as healing occurs. If it is necessary

Page 4 of 13 Revised: 10/30/2017 to remove the asphalt, only medically approved solvents or warm paraffin should be used to prevent further skin damage. Circumferential asphalt contact can have a tourniquet effect and impair distal circulation and nerve function. Create a longitudinal split or cut (analogous to an escharotomy) may be required completely across the residual asphalt to relieve pressure in the underlying tissue. For eye exposures with adherent asphalt, consult with an ophthalmologist. If hot material has caused burns to the eye, early ophthalmologic evaluation is recommended.

INHALATION: Inhalation exposure can produce toxic effects. Treat intoxications as hydrogen sulfide exposures. At high concentrations hydrogen sulfide may produce pulmonary edema, respiratory depression, and/or respiratory paralysis. The first priority in treatment should be the establishment of adequate ventilation and the administration of 100% oxygen. Monitor for respiratory distress. If cough or difficulty inbreathing develops, evaluate for upper respiratory tract inflammation, bronchitis, and pneumonitis.

# 5. Fire-fighting measures

#### Suitable extinguishing media

For small fires, Class B fire extinguishing media such as CO2, dry chemical, foam (AFFF/ATC) or water fog can be used. For large fires, water spray, fog or foam (AFFF/ATC) can be used. Firefighting should be attempted only by those who are adequately trained and equipped with proper protective equipment.

# Unsuitable extinguishing media

Do not use straight streams. Water contact can cause violent eruption of hot asphalt.

#### Specific hazards arising from the chemical

This product is not a combustible liquid per the OSHA Hazard Communication Standard, but will ignite and burn at temperatures exceeding the flash point. For additional fire related information, see NFPA 30 or the Emergency Response Guidebook 128.

#### **Hazardous combustion products**

Smoke, carbon monoxide, and other products of incomplete combustion.

#### **Explosion data**

Sensitivity to Mechanical Impact No. **Sensitivity to Static Discharge** 

## Special protective equipment and precautions for firefighters

Firefighters should wear full protective clothing and positive-pressure self-contained breathing apparatus (SCBA) with a full face-piece, as appropriate. Avoid using straight water streams. Water spray and foam (AFFF/ATC) must be applied carefully to avoid frothing and from as far a distance as possible. Avoid excessive water spray application. Keep run-off water out of sewers and water sources.

Health 2 Flammability 1 Instability 0 Special Hazard – **NFPA** 

#### 6. Accidental release measures

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S&Y Terminal, LLC SDS - Cationic Asphalt Emulsion Revised: 10/30/2017 **Personal precautions:** Keep public away. Isolate and evacuate area. Shut off source if safe to do so.

**Protective equipment:** Use personal protection measures as recommended in Section 8.

**Emergency procedures:** Advise authorities and National Response Center (800-424-8802) if the

product has entered a water course or sewer. Notify local health and

pollution control agencies, if appropriate.

**Environmental precautions:** Avoid release to the environment. Avoid subsoil penetration.

Methods and materials for

containment:

Contain liquid with sand or soil.

Methods and materials for

cleaning up:

Use suitable absorbent materials such as vermiculite, sand, or clay to clean

up residual

liquids. Recover and return free product to proper containers.

# 7. Handling and storage

**Safe Handling Precautions:** Avoid contact with skin, eyes and clothing. Avoid breathing fumes, gas, or

vapors. Use only with adequate ventilation. Wash thoroughly after handling. Use good personal hygiene practices and wear appropriate personal protective equipment. Comply with all applicable EPA, OSHA, NFPA and consistent state

and local requirements.

Harmful concentrations of hydrogen sulfide (H2S) gas can accumulate in excavations and low-lying areas as well as the vapor space of storage and bulk transport compartments. Stay upwind and vent open hatches before unloading. Sulfur containing products may cause polysulfide deposits (iron sulfide) to form inside iron storage tanks. These pyrophoric deposits, upon exposure to air, can ignite spontaneously. Keep heating coils and flues in storage tanks, trucks and

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kettles covered with product (8"). Do not overheat.

**Storage Conditions:** Store in properly closed containers that are appropriately labeled and in a cool,

well-ventilated area.

**Incompatible Materials** Strong oxidizing agents.

# 8. Exposure controls/personal protection

Name	ACGIH TLV	OSHA PELS:	OSHA - Vacated PELs	NIOSH IDLH
Asphalt	0.5 mg/m3 TWA	-	-	-
8052-42-4				
Stoddard Solvent	100 ppm TWA	TWA: 500 ppm	100 ppm TWA	20000 mg/m3
8052-41-3		TWA: 2900	525 mg/m3 TWA	
		mg/m3		
Sulfur Compounds	-	-	-	-
Mixture				
Polymer Modifier	-	-	-	-
(SBS or SBR)				

Mixture				
Cationic Emulsifier	-	-	-	-
(contains				
alkylamines)				
Mixture				
Naphthalene	10 ppm TWA	TWA: 10 ppm	10 ppm TWA	250 ppm
91-20-3	Skin - potential	TWA: 50 mg/m3	50 mg/m3 TWA	
	significant		15 ppm STEL	
	contribution to overall		75 mg/m3 STEL	
	exposure by the			
	cutaneous			
	route			
Polycyclic Aromatic	-	-	-	-
Hydrocarbons				
Mixture				
Hydrogen sulfide	1 ppm TWA	Ceiling: 20 ppm	10 ppm TWA	100 ppm
7783-06-4	5 ppm STEL		14 mg/m3 TWA	
			15 ppm STEL	
			21 mg/m3 STEL	

**Notes:** 

Personal protective equipment

The manufacturer has voluntarily elected to provide exposure limits contained in OSHA's 1989 air contaminants standard in its SDSs, even though certain of

those exposure limits were vacated in 1992.

**Engineering measures:** 

Local or general exhaust required in an enclosed area or when there is

inadequate ventilation.

**Eye protection:** 

Wear goggles and faceshield when handling hot material.

Skin and body protection:

Wear insulated gloves when handling hot material. Contact the glove manufacturer for specific advice on glove selection and breakthrough times. Wear the appropriate thermal resistant clothing and footwear when handling and applying hot asphalt. Rubberized suits or coats may be needed for some maintenance operations with hot material.

**Respiratory protection:** 

Where there is potential for airborne exposure to hydrogen sulfide (H2S) above exposure limits, a NIOSH approved, self-contained breathing apparatus (SCBA) or equivalent operated in a pressure demand or other positive pressure mode should be used. When H2S vapors exceed permissible limits, i.e., in confined spaces or bulk transport loading/unloading, a positive-pressure atmosphere supplying respirator is recommended. Self-contained breathing apparatus should be used for fire fighting.

Provided hydrogen sulfide (H2S) is not detected: if there is potential to exceed the exposure limits for asphalt fumes a NIOSH certified air purifying respirator equipped with organic vapor cartridges/canisters with R or P95 filters should be used. A respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed when conditions warrant the use of a respirator.

Note: Air purifying respirators are not to be used in atmospheres that exceed the maximum use concentration (as directed by regulation or the manufacturer's

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#### **Hygiene measures:**

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing.

# 9. Physical and chemical properties

# Information on basic physical and chemical properties

Physical State Liquid

**Appearance** Black-brown solid or semi-solid at room temperature.

Liquid at temperatures >70°C.

ColorDark brown to blackOdorHydrocarbon / TarOdor ThresholdNo data available.

Property Values (Method)

Melting Point / Freezing Point No data available.

Initial Boiling Point / Boiling Range  $> 100 \, ^{\circ}\text{C} / > 212 \, ^{\circ}\text{F} \text{ (ASTM D6997)}$ 

Flash Point
No data available.
Evaporation Rate
No data available.
Flammability (solid, gas)
Not applicable.

Flammability Limit in Air (%):

Upper Flammability Limit:No data available.Lower Flammability Limit:No data available.Explosion limits:No data available.

Vapor Pressure Negligible @ 25°C (ASTM D323)

Vapor Density No data available.

Specific Gravity / Relative Density 0.95-1.05 @ 15.6°C (ASTM D70)

Water Solubility Negligible

Solubility in other solventsNo data available.Partition CoefficientNo data available.Decomposition temperatureNo data available.pH:Not applicable.Autoignition TemperatureNo data available.

Autoignition Temperature

Kinematic Viscosity

No data available.

VOC Content (%)

No data available.

# 10.Stability and reactivity

**Reactivity** The product is non-reactive under normal conditions.

Chemical stability Stable under recommended storage conditions.

**Possibility of hazardous reactions**None under normal processing.

<u>Hazardous polymerization</u> Will not occur.

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**Hazardous decomposition products**None known under normal conditions of use.

# 11.Toxicological information

Potential short-term adverse effects from overexposures

**Inhalation** Harmful if inhaled. Fumes or vapors from the heated material may be irritating to the

respiratory tract. May cause drowsiness or dizziness. May release highly toxic hydrogen

sulfide gas that quickly fatigues the sense of smell.

**Eye contact** Vapors may cause eye irritation and sensitivity to light. Contact with hot material may

cause thermal burns.

**Skin contact** May cause skin irritation. May cause an allergic skin reaction. Contact with hot material

may cause thermal burns.

**Ingestion** If swallowed at ambient temperature no significant adverse effects are expected.

Ingestion of large amounts may cause gastrointestinal blockage. Swallowing hot material

may cause burns to the mouth, throat, and stomach.

## Acute toxicological data

Name	Oral LD50	Dermal LD50	Inhalation LC50
Asphalt	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	>94.4 mg/m3 (Rat) 4 h
8052-42-4			
Stoddard Solvent	-	-	-
8052-41-3			
Sulfur Compounds	-	-	> 5 mg/l (Rat) 4 h
Mixture			
Polymer Modifier (SBS or SBR)	-	-	-
Mixture			
Cationic Emulsifier (contains alkylamines)	-	-	-
Mixture			
Naphthalene	490 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 340 mg/m3 (Rat) 1 h
91-20-3			
Polycyclic Aromatic Hydrocarbons	-	-	-
Mixture			
Hydrogen sulfide	-	-	444 ppm (Rat) 4 h
7783-06-4			

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

PETROLEUM ASPHALT: Eye and upper respiratory tract irritation has been reported in some asphalt workers (paving and roofing operations) but they are typically mild and transient. Some studies indicate that asphalt paving workers may experience lower respiratory tract symptoms (e.g., coughing, wheezing, and shortness of breath) and pulmonary function changes. Other studies of asphalt workers found no consistent relationship between exposure to asphalt fumes and pulmonary

S&Y Terminal, LLC SDS – Cationic Asphalt Emulsion Page 9 of 13 Revised: 10/30/2017 function. Increased levels of 1-hydroxypyrene (a marker for exposure to polycyclic aromatic hydrocarbons) have been observed in the urine of asphalt workers. Genotoxicity studies (e.g., DNA adducts in the urine) of asphalt workers have been largely inconclusive.

A slight increase in lung cancer mortality was reported in a study of European workers exposed to paving and mastic asphalt, but conclusions were equivocal. A follow-up case-control epidemiology study of asphalt paving workers sponsored by the International Association for Research in Cancer (IARC) concluded that there was no evidence that asphalt exposure was linked to lung cancer. An increase in skin tumors was observed in lifetime studies of laboratory rodents exposed to extracts of asphalt (bitumen). The relevance of these studies to humans is not clear. No increase in skin tumors was observed in a lifetime bioassay where laboratory mice were treated with paving fume condensates. No increase in lung or other tumors were observed in a lifetime inhalation study in laboratory rats exposed to fumes from paving asphalt.

ASPHALTS USED IN ROOFING OPERATIONS: Some asphalts including roofing flux are further processed (oxidized) by the user or customer before use. An increased incidence of skin tumors was observed in a mouse skin carcinogenicity study where animals were exposed to condensed fumes collected from an oxidized roofing asphalt (BURA Type III) at above 450°F. Additional studies where mice were exposed to oxidized roofing asphalt fume condensates both as a tumor initiator and as a tumor promoter indicate that roofing fume condensate caused tumors as a result of initiation.

MIDDLE DISTILLATES, PETROLEUM: Long-term repeated (lifetime) skin exposure to similar materials has been reported to result in an increase in skin tumors in laboratory rodents. The relevance of these findings to humans is not clear at this time.

HYDROGEN SULFIDE: Hydrogen sulfide gas has an unpleasant odor that diminishes with increased exposure. Eye irritation may occur at levels above 4 ppm. Olfactory fatigue occurs rapidly at levels of 50 ppm or higher. Odor is not a reliable warning property. Respiratory effects include irritation with possible pulmonary edema at levels above 50 ppm. At 500 ppm immediate loss of consciousness and death can occur. NIOSH has determined that 100 ppm hydrogen sulfide is immediately dangerous to life and health (IDLH).

# Adverse effects related to the physical, chemical and toxicological characteristics

**Signs and Symptoms** Frequent or prolonged contact with cold material may cause irritation. Rash. Contact

with hot material may cause thermal burns.

**Sensitization** May cause sensitization by skin contact. Not expected to be a respiratory sensitizer.

**Mutagenic effects** None known.

**Carcinogenicity** Cancer designations are listed in the table below

Name	ACGIH	IARC	NTP	OSHA
	(Class)	(Class)		
Asphalt	Not classifiable	Emissions of straight-run	Not Listed	Not Listed
8052-42-4	(A4)	asphalt from paving		
		operations -		
		Possible human carcinogen		
		(2B)		
Stoddard Solvent	Not Listed	Not Listed	Not Listed	Not Listed
8052-41-3				
Sulfur Compounds	Not Listed	Not Listed	Not Listed	Not Listed

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Mixture				
Polymer Modifier	Not Listed	Not Listed	Not Listed	Not Listed
(SBS or SBR)				
Mixture				
Cationic Emulsifier	Not Listed	Not Listed	Not Listed	Not Listed
Mixture (contains				
alkylamines)				
Mixture				
Naphthalene	Confirmed animal	Possible human carcinogen	Reasonably	Not Listed
91-20-3	carcinogen (A3)	(2B)	anticipated to	
			be a human	
			carcinogen	
Polycyclic Aromatic	Suspected human	Carcinogenic to humans (1)	Reasonably	Not Listed
Hydrocarbons	carcinogen(A2)		anticipated to be a	
Mixture			human carcinogen	
Hydrogen sulfide	Not Listed	Not Listed	Not Listed	Not Listed
7783-06-4				

**Reproductive toxicity** None known.

**Specific Target Organ Toxicity** 

(STOT) - single exposure

Not classified.

**Specific Target Organ Toxicity** 

(STOT) - repeated exposure

Not classified. Liver. Spleen. Bone marrow.

**Aspiration hazard** Potential for aspiration if swallowed.

**Unknown Acute Toxicity** Up to 10% of the mixture consists of ingredient(s) of unknown toxicity

# 12. Ecological information

**Ecotoxicity** This product should be considered toxic to aquatic organisms, with the potential to cause long lasting adverse effects in the aquatic environment.

Name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Asphalt 8052-42-4	-	-	-	-
Stoddard Solvent 8052-41-3	-	-	-	-
Sulfur Compounds Mixture	-	-	-	-
Polymer Modifier (SBS or SBR) Mixture	-	-	-	-
Cationic Emulsifier (contains alkylamines)	-	-	-	-

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Mixture				
Naphthalene	-	96-hr LC50 = $0.91$ - $2.82$	-	48-hr LC50 = 1.6
91-20-3		mg/l Rainbow trout (static)		mg/l
		96-hr LC50 = 1.99 mg/l		Daphnia magna
		Fathead minnow (static)		
Polycyclic Aromatic	-	-	-	-
Hydrocarbons				
Mixture				
Hydrogen sulfide	-	96-hr LC50 = 0.016 mg/l	-	-
7783-06-4		Fathead minnow		
		96-hr LC50 = 0.013 mg/l		
		Rainbow trout		

**Persistence and degradability** Not expected to be readily biodegradable.

**Bioaccumulation** Not expected to bioaccumulate in aquatic organisms.

**Mobility in soil** Not likely to move rapidly with surface or groundwater flows because of its low

water solubility.

**Other adverse effects** No information available.

# 13.Disposal considerations

#### **Description of Waste Residues**

No information available.

## **Safe Handling of Wastes**

Handle in accordance with applicable local, state, and federal regulations. Use personal protection measures as required.

#### **Disposal of Wastes / Methods of Disposal**

The user is responsible for determining if any discarded material is a hazardous waste (40 CFR 262.11). Dispose of in accordance with federal, state and local regulations.

# **Methods of Contaminated Packaging Disposal**

Empty containers should be completely drained and then discarded or recycled, if possible. Dispose of in accordance with federal, state and local regulations.

# 14.Transport information

#### **DOT (49 CFR 172.101):**

**UN Proper Shipping Name:** Not Regulated **UN/Identification No:** Not applicable

Transport Hazard Class(es): Not applicable.

Packing Group: Not applicable.

# 15. Regulatory information

#### **Toxic Substances Control Act (TSCA):**

This product and/or its components are listed on the TSCA Chemical Inventory.

# Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

Releases of this material to water may be reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act.

(See Section 6)

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## Superfund Amendments and Reauthorization Act of 1986 (SARA), Title III:

Section 302 extremely hazardous substances: None

Section 311/312 hazard categories: Delayed Health

Section 313 reportable ingredients at or above de minimus concentrations: None

# California Proposition 65:

This product contains a chemical (crystalline silica, bitumen, various aromatic hydrocarbons) known to the State of California to cause cancer and birth defects or other reproductive harm.

## **State Regulatory Lists:**

Each state may promulgate standards more stringent than the federal government. This section cannot encompass an inclusive list or all state regulations. Therefore, the user should review the components listed in Section 2 and consult state or local authorities for specific regulations that apply.

## 16.Other information

**Issue date:** 

06/01/2015

**Revision date:** 

10/27/2017

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is intended as guidance for safe handling, use, processing, storage, transportation, accidental release, clean-up and disposal and is not considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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