

# Safety Data Sheet Seneca Emulsion

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## Section 1 ~ Identification

**Product Name:** Seneca Emulsion  
NTSS-1HMHM  
SS-1H  
SS-1VH

**SDS Number:** EM141119

**Product Description:** Asphalt Emulsion

**Intended Use:** Road paving and other industrial applications

**Emergency Phone** 1.800.424.9300 CHEMTREC (24 hours)

**Manufacturer Information:** Seneca Petroleum Company, Inc.  
13301 South Cicero Ave  
Crestwood, Illinois 60445

**Phone** 1.708.396.1100

## Section 2 ~ Hazard(s) Identification

**Classification Hazards:**

Skin Irritation – Category 2  
Eye Irritation – Category 2  
Carcinogenicity – Category 2



### Other Hazards:

Vapors may contain hydrogen sulfide gas (H<sub>2</sub>S) which can be harmful or fatal if inhaled.  
Heated material can cause thermal burns.  
Prolonged repeated contact with cold material or condensed vapors may produce skin irritation.

### Label Elements:

#### **WARNING**

Vapors may contain hydrogen sulfide gas (H<sub>2</sub>S) which can be harmful or fatal if inhaled.

# Safety Data Sheet Seneca Emulsion

Heated material can cause thermal burns.

Prolonged repeated contact with cold material or condensed vapors may produce skin irritation.

Avoid overheating to minimize fume production.

Avoid breathing fumes from hot material.

## Section 3 ~ Composition / Information Ingredients

Component/Chemical Name	CAS #	Concentration Range
Asphalt	8052-42-4	30-70%
Water	7732-18-5	30-70
Emulsifiers	Mixture	0.1-5%
Hydrogen Sulfide (in the vapor space)	7783-06-4	< .2%

## Section 4 ~ First-Aid Measures

**General:** Remove from exposure. Lie down. Remove outer layers of clothing, as necessary and as long as clothing is not adhering to person. Do not attempt to remove material in direct skin contact. Seek immediate medical attention.



**Eye:** Moderate irritation. May cause thermal burns, reddening or tearing.

**Skin:** For contact with hot molten material, cool area with water. Do not attempt to remove congealed solid material. Seek immediate medical attention. Clean skin with waterless hand cleaner. Do not use petroleum solvents to remove solid.

**Inhalation:** Product may be irritating to mucous membranes and respiratory tract. Product may produce unconsciousness or symptoms of intoxication (headache, dizziness, nausea, vomiting and loss of coordination). Remove exposed individual to fresh air; administer oxygen or artificial respiration as needed. Seek immediate medical attention.

**Ingestion:** DO NOT induce vomiting. Seek immediate medical attention. Clean mouth with water and drink afterwards plenty of water. If person vomits, sit person upright and notify medical attention.

## Section 5 ~ Fire Fighting Measures

HMIS CODE: (Health:1) (Flammability:0) (Reactivity:0)	NFPA CODE: (Health:1) (Flammability:0) (Reactivity:0)
	

### Extinguishing Media:

Small Fires: Any extinguisher suitable for Class B fires, dry chemical, or CO<sub>2</sub>

# Safety Data Sheet Seneca Emulsion

Large Fires: Water spray, fog or fire fighting foam. Foam is the preferred medium.

## Specific Hazards during Fire

It is doubtful that Emulsion will catch on fire or be able to sustain a continuous fire. Isolate hazard area and keep unauthorized personnel from entering. (If in use,) Request the disconnection of internal heat source (heating coils). Stop, control and contain any spills when it can be safely done. If water is applied to control fire, a violent eruption may occur, a boil over may occur, and/or material may float on surface creating the possibility of asphalt/oil sheen may occur. In the case of a major fire, it may be necessary to allow the fire to burn itself out.

## Specific Protective Equipment for Fire Fighters

Use NIOSH/MSHA approved positive pressure self-contained breathing apparatus and fully protective clothing such as bunker gear. Withdraw from the fire when there is rising sound from venting safety device or discoloration of vessel, tanks, or pipelines. In addition, wear other appropriate protective equipment as conditions warrant.

## Section 6 ~ Accidental Release Measures

### Personal Precautions

ACTIVATE YOUR COMPANY'S SPILL OR EMERGENCY RESPONSE PLAN.  
Carefully contain and stop the source of the spill, when safe to do so. Protect water by diking, absorbents, and/or absorbent boom. Remove by mechanical means. Authorities should be notified if reportable quantity release occurs.

### Methods for clean up

Turn product to a solid and collect materials in a ventilated waste container for disposal.

## Section 7 ~ Handling & Storage

### Handling

Use only in ventilated areas.  
Do not smoke near areas where material is handled or stored.  
Vapors (from H<sub>2</sub>S) may form explosive mixtures in air.

### Storage

DO NOT store this product at temperatures above 200°F.  
DO NOT store this product at temperatures above 40°F.  
Keep away from flame, sparks, excessive temperature change and open flames.  
Keep containers closed when not in use and clearly labeled.  
Maintain adequate ventilation.  
Do not enter confined spaces without proper ventilating before entrance.

## Section 8 ~ Exposure Controls / Personal Protection

### Exposure Guidelines

Chemical Name	ACGIH	OSHA
Asphalt	TWA: 0.5 mg/m <sup>3</sup>	
Hydrogen Sulfide (H <sub>2</sub> S)	TWA: 1 ppm STEL: 5 ppm	STEL 20 ppm

# Safety Data Sheet Seneca Emulsion

## Engineering Controls

Engineering controls are generally required when handling elevated temperature products.  
Provide adequate ventilation.  
Ensure that an emergency wash station and emergency shower are located in the work station.

## Eye/Face Protection

Use a full face shield when handling product.  
Safety glasses meeting ANSI Z.87.1 are recommended as minimal protection when working in an industrial location.

## Skin/Hand Protection

Wear long sleeved shirts and work pants preferably 100% cotton.  
Wear work boots made of leather that cover the ankle.  
Use insulated gloves when handling hot product.  
Use work gloves when handling cooled product.

## Respiratory Protection

Use adequate ventilation.  
Contaminant air concentrations determine the level of respiratory protection required.  
Use only NOISH approved respiratory equipment within the limits of the appropriate protection factor(s). Use supplied air when H2S concentrations are expected to exceed workplace exposure limits.

## Other Protections

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet facilities.  
Use a full body heat resistant or internally cooled suit when work conditions dictate.

## Section 9 ~ Physical & Chemical Properties

Appearance	Brown Liquid
Physical Form	Liquid
Odor	Sour tar like, asphalt
Odor Threshold	No data
pH	Not applicable
Melting Point/Freezing Point	86-149°F, 30-130°C
Boiling Point	>212 °F, >100°C
Flash Point	Does not apply in Emulsion state
Evaporation Rate	Negligible
Flammability (solid/gas)	Not applicable
Lower Explosive Limit (LEL)	Not applicable
Upper Explosive Limit (UEL)	Not applicable
Vapor Pressure	Negligible
Vapor Destiny (air=1)	Not applicable
Specific Gravity (water=1)	1-1.1
Partition Coefficient	No data
Auto-Ignition Temperature	No data
Decomposition Temperature	No data
Viscosity, Kinematic	No data
Solubility in Water	Negligible

# Safety Data Sheet Seneca Emulsion

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## Section 10 ~ Stability & Reactivity

### Reactivity

Not chemically reactive.

### Chemical Stability

Stable under normal use.

### Possibility of Hazardous Reactions

Stable under normal use.

Will react with strong acid and strong oxidizers. (Chlorine, hydrogen peroxide, organic peroxides, nitric acid, oxygen under pressure)

### Conditions to Avoid

Will react with strong acid and strong oxidizers. (Chlorine, hydrogen peroxide, organic peroxides, nitric acid, oxygen under pressure)

### Incompatible Materials

Will react with strong acid and strong oxidizers. (Chlorine, hydrogen peroxide, organic peroxides, nitric acid, oxygen under pressure)

### Hazardous decomposition Products

Thermal decomposition can produce toxic gases: oxides of carbon, nitrogen and sulfur.

## Section 11 ~ Toxicological Information

We have not conducted specific toxicity tests on this product. Our hazard assessment is based upon information provided by our suppliers on similar products, other manufacturers, and scientific literature. The International Agency for Research on Cancer has found that there is limited evidence of carcinogenicity for undiluted steam-refined asphalts in laboratory animals, but inadequate evidence of carcinogenicity for undiluted steam-refined asphalts in humans.

### Eye Irritation:

At an elevated temperature, this material can cause burns to the eyes. Mists, vapors or fumes may cause eye irritation with tearing, redness, or a stinging or burning feeling.

### Ingestion:

Chronic –If consumed in large quantities, material may obstruct the intestine.

Acute – Contact with heated material may cause burns. If material is consumed at ambient temperature, no significant adverse health effects are anticipated

### Inhalation:

Chronic - No significant health effects were observed during lifetime inhalation studies with laboratory animals, but lung damage was observed including bronchitis, pneumonitis, abcess formation, and other irritations.

Acute - Hydrogen sulfide (H<sub>2</sub>S) can accumulate in the headspace of heated asphalt storage tanks or transport vessels. Inhalation of H<sub>2</sub>S can produce eye and respiratory irritation, unconsciousness, and even death. Due to rapid fatigue of the olfactory senses you can not rely upon odor to detect this toxic gas. Use caution to avoid breathing of vapors when working around bulk containers of HOT liquid asphalt.

### Skin Irritation:

Chronic -This material contains Polynuclear Aromatic Hydrocarbons, some of which may be types shown to induce skin cancer in mice in lifetime skin-painting tests at the site of application. Prolonged repeated exposure to condensed vapors can cause skin irritation. Wash areas of exposed skin following contact and do not continue to wear contaminated clothing.

Acute – Heated asphalt may cause burns to the skin.

# Safety Data Sheet Seneca Emulsion

Acute Toxicity	Hazard	Additional Information	LC50/LD50 Data
Inhalation	Unlikely to be harmful	May contain or release poisonous H <sub>2</sub> S gas	Not Applicable
Dermal	Unlikely to be harmful		>2 g/kg
Oral	Unlikely to be harmful		>5 g/kg

## Section 12 ~ Ecological Information (Non-Mandatory)

No ecological studies are available for this product.

## Section 13 ~ Disposal Considerations (Non-Mandatory)

Recovered spilled material may be reused or recycling.

Dispose only in accordance with federal, state, and/or local regulations. Recovered liquid may be incinerated at an approved facility. Contaminated solid absorbent or diking material(s) may be deposited in an approved landfill.

## Section 14 ~ Transport Information (Non-Mandatory)

### U.S. Department of Transportation (DOT)

Shipping Description:	None
Non-Bulk Packaging Marking:	None
Non-Bulk Packaging Labels:	None
Bulk Package/Placard Marking:	None
Hazardous Substance	None

## Section 15 ~ Regulatory Information (Non-Mandatory)

### OSHA:

Hazardous by definition 29 CFR 1910.1299 (Hazard Communication Standard. Contains a component listed by ACGIH

### TSCA:

All of the components of this product are listed on the TSCA inventory.

### CERCLA:

This material is exempt from CERCLA reporting requirements under 40 CFR Part 302.4. There is no RQ for This material or any component greater than 1% or 0% (carcinogen). However, if spilled into the waters of the United States, it may be reportable under 33 CFR Part 153 if it produces a sheen.

### SARA Title III Section 313:

This material is exempt from the reporting requirements of Section 313 SARA and 40 CFR Part 372.

### Sara Title III Section 302:

There is no TQP for this material under 40 CFR Part 355, however, if heated, vapors may cause H<sub>2</sub>S which is on the Extremely Hazardous Substances List (TPQ 10,000 lbs., RQ 2,000lbs.).

### RCRA:

This material is not subject to the 40 CFR Part 268.30 land ban on the disposal of certain hazardous wastes.

# Safety Data Sheet Seneca Emulsion

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**Canada:**

This material has been classified in accordance with hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by regulations

**WHMIS:**

None

**California:**

Warning: This material contains a chemical known to the State of California to cause cancer, birth defects or other reproductive harm, and which may be subject to the warning requirements of California Proposition 65 (CA Health & Safety Code Section 25249.5).

## Section 16 ~ Other Information (Non-Mandatory)

The information provided in the Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to 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.

Approved for use on: February 2015 by Daryl Brown