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#### **Section 1: IDENTIFICATION**

Product Name: CSS-1, CSS-1H, CQS-1H

Synonyms: Not available.

Product Use: Road Construction: Tack, Stabilization, Fog Seal, Slurry Seal.

Restrictions on Use: Not available.

Manufacturer/Supplier: Husky Marketing and Supply Company

Suite 200

5500 Blazer Parkway Dublin, Ohio 43017

 Phone Number:
 403-298-6111

 Emergency Phone:
 403-262-2111

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# Section 2: HAZARD(S) IDENTIFICATION

#### **GHS INFORMATION**

Classification: Not hazardous according to OSHA criteria (29 CFR 1910.1200).

Not hazardous according to WHMIS 2015.

LABEL ELEMENTS

Hazard None.

Pictogram(s):

Signal Word: None.

Hazard Not applicable.

Statements:

**Precautionary Statements** 

Prevention: Not applicable.Response: Not applicable.Storage: Not applicable.Disposal: Not applicable.

Hazards Not Otherwise Classified: Not applicable.

**Ingredients with Unknown Toxicity:** 70% of this product mixture consists of ingredient(s) of

unknown acute toxicity.

This material is not considered hazardous by the OSHA Hazard Communication Standard, (29 CFR 1910.1200).

This material is not considered hazardous by the Hazardous Products Regulations, 2015.

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# Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	Common name / Synonyms	CAS No.	% wt./wt.
Asphalt	Not available.	8052-42-4	40 - 70
Hydrogen sulfide (H2S)	Hydrogen sulphide	7783-06-4	< 0.1

This product is a liquid in which asphalt cement is dispersed as stable droplets in a cationic soap solution.

#### **Section 4: FIRST-AID MEASURES**

Inhalation: If inhaled: Call a poison center or doctor if you feel unwell.

> Acute and delayed symptoms and effects: May cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. This product may contain trace amounts of Hydrogen sulphide which may accumulate in confined spaces. Inhalation of Hydrogen sulphide may cause loss of sense of smell, major irritation of the respiratory tract, headache, nausea, vomiting, dizziness, and fluid buildup in the lungs (pulmonary edema), which can be fatal. At 300 ppm unconsciousness may occur after 20 minutes. From 300 to 500 ppm, death can occur within 1 to 4 hours of continuous exposure. At 500 ppm the respiratory system is paralyzed, the victim collapses almost instantaneously, and death can occur after exposure of only 30 to 60 minutes. Above 500 ppm Hydrogen sulphide may cause immediate loss of consciousness; death is rapid, and possibly immediate.

**Eye Contact:** If in eyes: Rinse cautiously with water for at least 15 minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. Call a poison

center or doctor if you feel unwell.

Acute and delayed symptoms and effects: May cause eye irritation.

Signs/symptoms may include redness, swelling, pain, tearing, and blurred

or hazy vision.

**Skin Contact:** If on skin: Wash with plenty of water. Call a poison center or doctor if you

feel unwell.

Acute and delayed symptoms and effects: May cause skin irritation.

Signs/symptoms may include localized redness, swelling, and itching.

Ingestion: If swallowed: Call a poison center or doctor if you feel unwell. If vomiting

> occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel.

Never give anything by mouth to an unconscious person.

Acute and delayed symptoms and effects: May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea. If swallowed in large quantities, Asphalt

can obstruct the intestine.

**General Advice:** In case of accident or if you feel unwell, seek medical advice immediately

(show the label or SDS where possible).

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Note to Physicians: Symptoms may not appear immediately. For inhalation of Hydrogen

Sulphide, consider oxygen.

#### **Section 5: FIRE-FIGHTING MEASURES**

#### FLAMMABILITY AND EXPLOSION INFORMATION

Emulsion will burn under prolonged exposure to heat. When heated, this material may evolve toxic and flammable Hydrogen sulphide.

Sensitivity to Mechanical Impact: This material is not sensitive to mechanical impact.

Sensitivity to Static Discharge: This material is sensitive to static discharge at temperatures

at or above the flash point.

**MEANS OF EXTINCTION** 

Suitable Extinguishing Media: Dry chemical, CO2 or regular foam. Move containers from fire

area if you can do it without risk.

Unsuitable Extinguishing Media: Not available.

**Products of Combustion:** Oxides of carbon. Oxides of sulphur.

**Protection of Firefighters:** Runoff from fire control or dilution water may cause pollution.

Hydrogen sulphide is heavier than air and may collect in low lying areas and confined spaces. Wear positive pressure selfcontained breathing apparatus (SCBA). Structural firefighters'

protective clothing will only provide limited protection.

#### Section 6: ACCIDENTAL RELEASE MEASURES

Emergency Procedures: Keep unauthorized personnel away. Stay upwind. Keep out of low

areas. Ventilate closed spaces before entering. ELIMINATE all

ignition sources (no smoking, flares, sparks or flames in

immediate area).

**Personal Precautions:** Do not touch or walk through spilled material. Use personal

protection recommended in Section 8. Don full-face, positive

pressure, self-contained breathing apparatus.

**Environmental Precautions:** Keep out of drains, sewers, ditches, and waterways.

Methods for Containment: Stop leak if without risk. Do not flush to sewer or allow to enter

waterways.

**Methods for Clean-Up:** Absorb or cover with dry earth, sand or other non-combustible

material and transfer to containers.

**Other Information:** See Section 13 for disposal considerations.

# **Section 7: HANDLING AND STORAGE**

#### Handling:

Do not swallow. Avoid breathing mist, vapours, or spray. See Section 8 for information on Personal Protective Equipment.

#### Storage:

Do not allow to freeze. Avoid heating above 80 °C (176 °F). Do not mix with anionic emulsions. Long term storage may require recirculation prior to use. Store away from incompatible

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materials. See Section 10 for information on Incompatible Materials. Keep out of the reach of children. Asphalt contains trace amounts of Hydrogen sulfide which can accumulate in vapour space of tanks and containers.

# Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

# Exposure Guidelines Component

Asphalt [CAS No. 8052-42-4]

ACGIH: 0.5 mg/m³ (TWA); A4; BEI; Inhalable fraction; For Asphalt (Bitumen) fume, as

benzene-soluble aerosol

OSHA: No PEL established.

Hydrogen sulphide [CAS No. 7783-06-4]

**ACGIH:** 1 ppm (TWA); 5 ppm (STEL); (2009);

OSHA: 20 ppm (C); 50 ppm (Peak) (Maximum duration: 10 mins. once only if no other

meas. exp. occurs.)

10 ppm (TWA); 15 ppm (STEL) [Vacated];

**PEL:** Permissible Exposure Limit **TWA:** Time-Weighted Average **STEL:** Short-Term Exposure Limit

C: Ceiling

**Engineering Controls:** Use ventilation adequate to keep exposures (airborne levels

of dust, fume, vapour, gas, etc.) below recommended

exposure limits.

# PERSONAL PROTECTIVE EQUIPMENT (PPE)



**Eye/Face Protection:** Wear chemical safety goggles. Use equipment for eye

protection that meets the standards referenced by CSA Standard CAN/CSA-Z94.3-92 and OSHA regulations in 29

CFR 1910.133 for Personal Protective Equipment.

Hand Protection: Wear protective gloves. Neoprene or nitrile material

suggested. Consult manufacturer specifications for further

information.

**Skin and Body Protection:** Wear protective clothing.

Respiratory Protection: Not normally required. If engineering controls and ventilation

are not sufficient to control exposure to below the allowable limits then an appropriate NIOSH/MSHA approved airpurifying respirator that meets the requirements of CSA Standard CAN/CSA-Z94.4-11, or self-contained breathing apparatus must be used. Supplied air breathing apparatus must be used when oxygen concentrations are low or if



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airborne concentrations exceed the limits of the air-purifying

respirators.

General Hygiene Considerations: Handle according to established industrial hygiene and

safety practices. Consult a competent industrial hygienist to determine hazard potential and/or the PPE manufacturers to

ensure adequate protection.

#### **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** Dark brown liquid.

Colour: Dark brown.

Odour: Mild acidic.

Odour Threshold: Not available.

Physical State: Liquid.

pH: Not available.

Melting Point / Freezing  $\sim 0 \,^{\circ}\text{C} \, (32 \,^{\circ}\text{F})$ 

Point:

Initial Boiling Point: Not available.

Boiling Range / Point: ~ 100 °C (212 °F)

Flash Point: > 104 °C (219.2 °F) (PMCC)

Evaporation Rate: Not available.

Flammability (solid, gas): Not applicable.

Lower Flammability Limit: Not available.

Upper Flammability Limit: Not available.

Vapor Pressure: Not available.

Vapor Density: Not available.

**Relative Density:** 1.02 (Water = 1) at  $15.6 \,^{\circ}\text{C}$  (60.1  $^{\circ}\text{F}$ )

Soluble in water.

Partition Coefficient: n-

Octanol/Water:

Not available.

Auto-ignition Temperature: Not available.

Decomposition Not available.

Temperature:

**Viscosity:** 20 to 40 SFs at 25 °C (77 °F)

Percent Volatile, wt. %: Water: 30-45%; Organic: 0-1% at 260 °C (500 °F)

VOC content, wt. %: Not available.

Density: Not available.



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Coefficient of Water/Oil

Distribution:

Not available.

#### Section 10: STABILITY AND REACTIVITY

**Reactivity:** Contact with incompatible materials. Sources of ignition. Exposure to

heat.

**Chemical Stability:** Stable under normal storage conditions.

**Possibility of Hazardous** 

Reactions:

Not available.

Conditions to Avoid: Contact with incompatible materials. Sources of ignition. Exposure to

heat. Heating to dryness and further to 200 °C (392 °F).

Incompatible Materials: Bases. Oxidizers.

Hazardous Decomposition Products: Oxides of carbon.

#### **Section 11: TOXICOLOGICAL INFORMATION**

#### **EFFECTS OF ACUTE EXPOSURE**

**Product Toxicity** 

Oral: Not available.

Dermal: Not available.

Inhalation: Not available.

**Component Toxicity** 

Component CAS No. LD50 oral LD50 dermal LC50

Asphalt 8052-42-4 Not available. Not available. Not available. Hydrogen sulphide 7783-06-4 Not available. Not available. 444 ppm (rat); 4H

Likely Routes of Exposure: Eye contact. Skin contact. Inhalation. Ingestion.

Target Organs: Skin. Eyes. Gastrointestinal tract. Respiratory system. Lungs.

Blood. Cardiovascular system. Central nervous system.

#### Symptoms (including delayed and immediate effects)

**Inhalation:** May cause respiratory irritation. Signs/symptoms may include cough, sneezing,

nasal discharge, headache, hoarseness, and nose and throat pain. This product may contain trace amounts of Hydrogen sulphide which may accumulate in confined spaces. Inhalation of Hydrogen sulphide may cause loss of sense of smell, major irritation of the respiratory tract, headache, nausea, vomiting, dizziness, and fluid buildup in the lungs (pulmonary edema), which can be fatal. At 300 ppm unconsciousness may occur after 20 minutes. From 300 to 500 ppm, death can occur within 1 to 4 hours of continuous exposure. At 500 ppm the respiratory system is paralyzed, the victim collapses almost instantaneously, and death can occur after exposure of only 30 to 60 minutes. Above 500 ppm Hydrogen sulphide may cause immediate loss of consciousness; death is rapid, and possibly

immediate.

Eye: May cause eye irritation. Signs/symptoms may include redness, swelling, pain,

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tearing, and blurred or hazy vision.

**Skin:** May cause skin irritation. Signs/symptoms may include localized redness, swelling,

and itching.

**Ingestion:** May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain,

stomach upset, nausea, vomiting and diarrhea. If swallowed in large quantities,

Asphalt can obstruct the intestine.

Skin Sensitization: Not available.

Respiratory Sensitization: Not available.

Medical Conditions Not available.

**Aggravated By Exposure:** 

EFFECTS OF CHRONIC EXPOSURE (from short and long-term exposure)

Target Organs: Skin. Eyes. Gastrointestinal tract. Respiratory system. Lungs. Blood.

Cardiovascular system. Liver. Kidneys. Central nervous system.

**Chronic Effects:** Prolonged or repeated contact may dry skin and cause irritation.

Hydrogen sulphide may reduce lung function; cause neurological effects such as headaches, nausea, depression and personality changes; eye and mucous membrane irritation; and damage to

cardiovascular system.

**Carcinogenicity:** Product is not classified as a carcinogen. See Component

Carcinogenicity table below for information on individual components. Long-term or repeated exposures to Asphalt fumes are possibly carcinogenic to humans. However, exposure to Asphalt fumes from

this product is unlikely.

**Component Carcinogenicity** 

ComponentACGIHIARCNTPOSHAProp 65Asphalt fumesA4Group 2BNot listed.OSHA Carcinogen. Listed.

Mutagenicity: Not available.

Reproductive Effects: Not available.

**Developmental Effects** 

**Teratogenicity:** Not available. **Embryotoxicity:** Not available.

Toxicologically Synergistic Materials: Not available.

# **Section 12: ECOLOGICAL INFORMATION**

Ecotoxicity: Not available.

Persistence / Degradability: Not available.

Bioaccumulation / Accumulation: Not available.

Mobility in Environment: Not available.

Other Adverse Effects: Not available.

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#### Section 13: DISPOSAL CONSIDERATIONS

**Disposal Instructions:** Disposal should be in accordance with applicable regional, national

and local laws and regulations. Local regulations may be more

stringent than regional or national requirements.

#### **Section 14: TRANSPORT INFORMATION**

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

Proper Shipping Name: Not regulated.

Class: Not applicable.

UN Number: Not applicable.

Packing Group: Not applicable.

Label Code: Not applicable.

# Canada Transportation of Dangerous Goods (TDG)

Proper Shipping Name: Not regulated.

Class: Not applicable.

UN Number: Not applicable.

Packing Group: Not applicable.

Label Code: Not applicable.

# Section 15: REGULATORY INFORMATION

#### **Chemical Inventories**

#### **US (TSCA)**

The components of this product are in compliance with the chemical notification requirements of TSCA.

#### Canada (DSL)

The components of this product are in compliance with the chemical notification requirements of the NSN Regulations under CEPA, 1999.

#### **Federal Regulations**

#### **United States**

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### **SARA Title III**

Component	Section 302 (EHS) TPQ (lbs.)	Section 304 EHS RQ (Ibs.)	CERCLA RQ (lbs.)	Section 313	RCRA CODE	CAA 112( r ) TQ (lbs.)
Hydrogen sulphide	500	100	100	313	U135	10000



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# State Regulations

### Massachusetts

US Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of

Massachusetts Regulations Section 670.000)

ComponentCAS No.RTK ListAsphalt8052-42-4Listed.Hydrogen sulphide7783-06-4E

Note: E = Extraordinarily Hazardous Substance

# **New Jersey**

US New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated

Section 34:5A-5)

ComponentCAS No.RTK ListAsphalt8052-42-4Listed.Hydrogen sulphide7783-06-4SHHS

**Note:** SHHS = Special Health Hazard Substance

#### Pennsylvania

US Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)

Component
CAS No.
RTK List

Asphalt
8052-42-4
Listed.

Hydrogen sulphide
7783-06-4
E

Note: E = Environmental Hazard

California

California Prop 65: WARNING: This product contains chemicals known to the State of

California to cause cancer, birth defects or other reproductive harm.

Component Type of Toxicity

Asphalt cancer

# **Section 16: OTHER INFORMATION**

## Disclaimer:

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for their own particular use.

Date of Preparation of SDS: October 20, 2015

Version: 1.0

GHS SDS Prepared by: Deerfoot Consulting Inc.

Phone: (403) 720-3700