

Husky Energy SAFETY DATA SHEET / MATERIAL SAFETY DATA SHEET

Cutter Stock C - Summer Grade

Date of Preparation: January 27, 2016

Section 1: IDENTIFICATION

Product Name: Cutter Stock C - Summer Grade

Synonyms: 0406-0.

Product Use: Used in the manufacture of specialty asphalts.

Restrictions on Use: Not available.

Manufacturer/Supplier: Husky Oil Marketing Company

PO Box 6525 Station 'D' Calgary, Alberta T2P 3G7

Phone Number: 403-298-6111

Emergency Phone: 403-262-2111

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Section 2: HAZARD(S) IDENTIFICATION

GHS INFORMATION

Classification: Carcinogenicity, Category 1B

Aspiration Hazard, Category 1

LABEL ELEMENTS

Hazard

Pictogram(s):

Signal Word: Danger

Hazard May cause cancer.

Statements: May be fatal if swallowed and enters airways.

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 and eye protection.

Response: If swallowed: Immediately call a poison center or doctor.

If exposed or concerned: Get medical advice/attention.

Do NOT induce vomiting.

Storage: Store locked up.

Disposal: Dispose of contents/container in accordance with applicable regional, national

and local laws and regulations.

Hazards Not Otherwise Classified: Not applicable.

Ingredients with Unknown Toxicity: 100% of this product mixture consists of ingredient(s) of

unknown acute toxicity.

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This material is considered hazardous by the OSHA Hazard Communication Standard, (29 CFR 1910.1200).

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS							
Hazardous Ingredient(s)	Common name / Synonyms	CAS No.	% wt./wt.				
Distillates (petroleum), petroleum residues vacuum	Not available.	68955-27-1	100				
Hydrogen sulfide (H2S)	Hydrogen sulphide	7783-06-4	Trace				

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 small 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 soap and 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: Do NOT induce vomiting. Immediately call a poison center or

> doctor. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Never give anything by mouth to an unconscious person.

> Acute and delayed symptoms and effects: May be fatal if swallowed and enters airways. May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.



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

(show the label or SDS where possible).

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

Sulphide, consider oxygen.

Section 5: FIRE-FIGHTING MEASURES

FLAMMABILITY AND EXPLOSION INFORMATION

Not flammable or combustible by OSHA/WHMIS criteria. 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: Small Fire: Dry chemical, CO2, water spray or regular foam.

> Large Fire: Water spray, fog 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: Fire may produce irritating, corrosive and/or toxic gases.

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.

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Section 7: HANDLING AND STORAGE

Handling:

Do not swallow. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. See Section 8 for information on Personal Protective Equipment.

Storage:

Store locked up. Store away from incompatible materials. See Section 10 for information on Incompatible Materials. Keep out of the reach of children. Head spaces in storage containers may contain toxic hydrogen sulphide gas. Structural materials and lighting and ventilation systems should be corrosion resistant.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines Component

Distillates (petroleum), petroleum residues vacuum [CAS No. 68955-27-1]

ACGIH: A2; Exposure by all routes should be carefully controlled to levels as low as

possible (2009); For Mineral oil, excluding metal working fluids; Poorly and mildly

refined

OSHA: 5 mg/m³ (TWA); For Oil mist, mineral.

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];

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 safety glasses. 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. Consult manufacturer specifications

for further information.

Skin and Body Protection: Wear protective clothing.



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Respiratory Protection: If engineering controls and ventilation are not sufficient to

control exposure to below the allowable limits then an appropriate NIOSH/MSHA approved air-purifying 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 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: Light brown coloured liquid.

Colour: Light brown.

Odour: Petroleum.

Odour Threshold: Not available.

Physical State: Liquid.

pH: Not available.

Melting Point / Freezing

Point:

Not available.

Initial Boiling Point: Not available.

Boiling Range: $> 285 \, ^{\circ}\text{C} \, (545 \, ^{\circ}\text{F})$

Flash Point: > 169 °C (336.2 °F) (PMCC)

Evaporation Rate: Slow.

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: 0.9293 (Water = 1)
Solubilities: Insoluble in water.

Partition Coefficient: n-

Octanol/Water:

Not available.

Auto-ignition Temperature: Not available.

Decomposition Not available.

Temperature:



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Viscosity: Not available. Percent Volatile, wt. %: Not available. VOC content, wt. %: Not available. Density: Not available.

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:

None known.

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

Incompatible Materials: Strong acids. Strong oxidizers. Halogens.

Hazardous Decomposition Products: Not available.

Section 11: TOXICOLOGICAL INFORMATION

EFFECTS OF ACUTE EXPOSURE

Product Toxicity

Oral: Not available. Dermal: Not available. Inhalation: Not available.

Component Toxicity

LD₅₀ oral LD₅₀ dermal Component CAS No. LC₅₀

Distillates (petroleum), 68955-27-1 Not available. Not available. Not available.

petroleum residues

vacuum

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

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

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

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 small 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

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immediate.

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

tearing, and blurred or hazy vision.

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

and itching.

Ingestion: May be fatal if swallowed and enters airways. May cause gastrointestinal irritation.

Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting

and diarrhea.

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.

Lymphoid tissue.

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

Prolonged and repeated contact with Petroleum distillates may lead to various skin disorders such as dermatitis, oil acne, folliculitis or skin tumours. Repeated skin contact with Petroleum distillates components has produced anemia, liver degeneration and injury to bone marrow and lymphoid tissues in laboratory animals. 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: May cause cancer. Chronic inhalation of respirable droplets or oil mist

from Petroleum distillates may contribute to the formation of pulmonary

tumours.

Component Carcinogenicity

Prop 65 Component ACGIH IARC NTP OSHA Distillates (petroleum), OSHA Carcinogen. Listed. A2 Group 1 List 1

petroleum residues vacuum

Mutagenicity: Not available. **Reproductive Effects:** Not available.

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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.

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:

Class:

Not applicable.

UN Number:

Packing Group:

Label Code:

Not applicable.

Not applicable.

Not applicable.

Canada Transportation of Dangerous Goods (TDG) Proper Shipping Name: Not regulated.

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.

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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 (lbs.)	CERCLA RQ (lbs.)	Section 313	RCRA CODE	CAA 112(r) TQ (lbs.)
Hydrogen sulphide	500	100	100	313	U135	10000

State Regulations

Massachusetts

US Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000)

Component	CAS No.	RTK List
Distillates (petroleum), petroleum residues vacuum	68955-27-1	Listed.
Hydrogen sulphide	7783-06-4	Е

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)

Component	CAS No.	RTK List
Distillates (petroleum), petroleum residues vacuum	68955-27-1	SHHS
Hydrogen sulphide	7783-06-4	SHHS

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

Distillates (petroleum), petroleum residues vacuum 68955-27-1 S Hydrogen sulphide 7783-06-4 E

Note: E = Environmental Hazard; S = Special Hazardous Substance

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

Distillates (petroleum), petroleum residues cancer

vacuum

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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 his own particular use.

Date of Preparation of SDS: January 27, 2016

Version: 2.1

GHS SDS Prepared by: Deerfoot Consulting Inc.

Phone: (403) 720-3700