



# Safety Data Sheet

Issue date 18-Jul-2015

Revision date 29-Jul-2015

Version 1

## 1. Identification of the Substance/Preparation and of the Company/Undertaking

### Product identifier

**Product name** Dark Cutting Oil

### Other means of identification

**Product code** GHSRDO005D

**Synonyms** Not applicable

### Recommended use of the chemical and restrictions on use

**Recommended Use** Metalworking fluid, industrial lubricant.

**Uses advised against** No other uses are recommended

### Details of the supplier of the safety data sheet

#### Supplier Address

L.H. Dottie Company  
6131 Garfield Avenue  
Commerce, CA 90040

#### Emergency telephone number

**Emergency telephone** Chemtrec 1-800-424-9300

## 2. Hazards Identification

### Classification

Petroleum based fluid of generally low toxicity.

Effects on or via lactation	Yes
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### Label Elements

#### Signal word

None

#### Hazard statements

May cause harm to breast-fed children

#### Appearance

Light brown

#### Physical State

Oily liquid

#### Odor

Mild, bland hydrocarbon odor.

**Hazards not otherwise classified (HNOC)** None

**Other Hazards** None

**Unknown acute toxicity** Not toxic

## 3. Composition/information on Ingredients

Chemical Name	CAS No	Weight %
Petroleum distillates, hydrotreated light naphthenic	64742-53-6	90-95
Proprietary Additive	PROPRIETARY	5-10
Chlorinated Paraffin	63449-39-8	1-5

## 4. First aid measures

**FIRST AID MEASURES**

<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>Skin contact</b>	Wash skin with soap and water.
<b>Inhalation</b>	Remove to fresh air.
<b>Ingestion</b>	Clean mouth with water and drink plenty of water.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** Not applicable.

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

**Note to physicians** Treat symptomatically.

## 5. Fire-fighting measures

<b><u>Suitable Extinguishing Media</u></b>	Dry chemical, CO2 or water spray.
<b><u>Unsuitable extinguishing media</u></b>	Not applicable.
<b><u>Specific hazards arising from the chemical</u></b>	Not applicable.
<b><u>Hazardous combustion products</u></b>	Oxides of chlorine, carbon, sulfur and hydrogen chloride.
<b><u>Explosion data</u></b>	
<b><u>Sensitivity to Mechanical Impact</u></b>	Not applicable.
<b><u>Sensitivity to Static Discharge</u></b>	Not applicable.
<b><u>Special protective actions for fire-fighters</u></b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas.

**Environmental precautions**

**Environmental precautions** Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.

**Methods and material for containment and cleaning up**

<b>Methods for Containment</b>	Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).
<b>Methods for cleaning up</b>	Pick up and transfer to properly labeled containers.

## 7. Handling and Storage

**Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible materials** None known based on information supplied.

## 8. Exposure Controls/Personal Protection

**Control parameters**

**Exposure guidelines** Exposure limits for purified mineral oil as mist: US-ACGIH reports: TWA-5 mg/m<sup>3</sup> and STEL-10 mg/m<sup>3</sup>; US-OSHA PEL 5 mg/m<sup>3</sup>.

**Appropriate engineering controls**

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

**Individual protection measures, such as personal protective equipment**

**Eye/face Protection** No special technical protective measures are necessary.

**Skin and Body Protection** No special technical protective measures are necessary.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General hygiene considerations** Wash contaminated clothing before reuse.

## 9. Physical and Chemical Properties

**Information on basic physical and chemical properties**

<b>Physical State</b>	Oily liquid	<b>Odor</b>	Mild, bland hydrocarbon odor.
<b>Appearance</b>	Light brown	<b>Odor threshold</b>	No data available
<b>Color</b>	Light brown		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No data available	
Melting point/freezing point	No data available	
Boiling point / boiling range	No data available	
Flash Point	174 °C / 345 °F	
Evaporation Rate	No data available	
Flammability (solid, gas)	No data available	
Flammability Limit in Air		
Upper flammability limit:	No data available	
Lower flammability limit:	No data available	
Vapor pressure	No data available	
Vapor Density	No data available	
Specific gravity	0.8487	
Water solubility	No data available	
Solubility in other solvents	No data available	
Partition coefficient	No data available	
Autoignition Temperature	No data available	
Decomposition temperature	No data available	
Kinematic viscosity	No data available	

**Dynamic viscosity** No data available

#### Other Information

**Density** No data available

**VOC content (%)** 28.8 g/l per ASTM E-1868-10. Super Compliant per SCAQMD Rule 1144.

### 10. Stability and Reactivity

#### Reactivity

Not applicable.

**Chemical stability** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions** None under normal processing.

**Conditions to avoid** Extremes of temperature and direct sunlight.

**Incompatible materials** None known based on information supplied.

**Hazardous Decomposition Products** None known based on information supplied.

### 11. Toxicological Information

#### Information on likely routes of exposure

**Product Information** Not applicable

**Inhalation** This product is not classified as acutely toxic by inhalation.

**Eye Contact** This product is not classified as an eye irritant.

**Skin contact** This product is not classified as acutely toxic by the dermal route.

**Ingestion** This product is not classified as acutely toxic by the oral route.

Chemical Name	Oral LD50	Dermal LD50
Chlorinated Paraffin 63449-39-8	= 26100 mg/kg ( Rat )	> 10 mL/kg ( Rabbit )

#### Information on toxicological effects

**Symptoms** No information available.

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

**Sensitization** This product is not classified as a skin sensitizer.

**Germ cell mutagenicity** None of the components are currently classified as mutagenic.

**Carcinogenicity** None of the components are currently classified as carcinogenic.

Chemical Name	ACGIH	IARC	NTP	OSHA
Chlorinated Paraffin 63449-39-8		Group 2B		X

**Reproductive Toxicity** No information available.

**STOT - single exposure** Not classified; based on data on components.

**STOT - repeated exposure** Not classified; based on data on components.

**Aspiration hazard** No information available.

#### Numerical measures of toxicity - Product Information

**Unknown acute toxicity** Not toxic

**The following values are calculated based on chapter 3.1 of the GHS document** Not determined.

### 12. Ecological Information

**Ecotoxicity** Except for medium chain chlorinated paraffins, none of the components of this product are expected to be environmentally persistent or not readily biodegradable.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Petroleum distillates, hydrotreated light naphthenic 64742-53-6		5000: 96 h Oncorhynchus mykiss mg/L LC50		1000: 48 h Daphnia magna mg/L EC50
Chlorinated Paraffin 63449-39-8		0.1: 96 h Lepomis macrochirus mg/L LC50 flow-through 100: 96 h Pimephales promelas mg/L LC50 static 0.0109: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 300: 96 h Lepomis macrochirus mg/L LC50 static 94.5 - 271: 96 h Oncorhynchus mykiss mg/L LC50 static		102: 24 h Daphnia magna mg/L EC50

**Persistence and degradability** Some components of this product are not readily biodegradable.

**Bioaccumulation** Some components may bioconcentrate in aquatic organisms.

Chemical Name	Partition coefficient
Chlorinated Paraffin 63449-39-8	>6

**Other adverse effects** Not determined

### 13. Disposal Considerations

#### Waste treatment methods

**Disposal of wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging** Do not reuse container.

### 14. Transport Information

<b><u>DOT</u></b>	Not regulated
<b><u>TDG</u></b>	Not determined
<b><u>MEX</u></b>	Not determined
<b><u>ICAO (air)</u></b>	Not determined
<b><u>IATA</u></b>	Not determined
<b><u>IMDG</u></b>	Not determined
<b><u>RID</u></b>	Not determined
<b><u>ADR</u></b>	Not determined
<b><u>ADN</u></b>	Not determined

### 15. Regulatory information

#### International Inventories

**TSCA** Complies

DSL/NDSL	Not determined
ENCS	Not determined
IECSC	Not determined
KECL	Not determined
PICCS	Not determined
AICS	Not determined

**Legend:**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List  
 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
 ENCS - Japan Existing and New Chemical Substances  
 IECSC - China Inventory of Existing Chemical Substances  
 KECL - Korean Existing and Evaluated Chemical Substances  
 PICCS - Philippines Inventory of Chemicals and Chemical Substances  
 AICS - Australian Inventory of Chemical Substances

**US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

Acute Health Hazard	No
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (4

**US State Regulations****California Proposition 65**

This product is not known to contain any Proposition 65 chemicals

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Petroleum distillates, hydrotreated light naphthenic 64742-53-6		X	
Chlorinated Paraffin 63449-39-8		X	

**U.S. EPA Label information**

EPA Pesticide registration number Not applicable

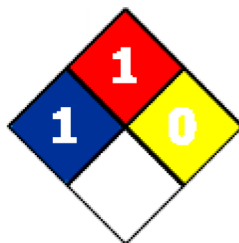
**16. Other information**

NFPA

Health hazards 1

Flammability 1

Instability 0

Physical and chemical  
properties -HMS

Health hazards 1

Flammability 1

Physical Hazards 0

Personal Protection H  
X

Issue date 18-Jul-2015

Revision date 29-Jul-2015

Revision note

Not applicable

Disclaimer

The information provided in this Material 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 a 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 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.

**End of Safety Data Sheet**



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### Product identifier

**Product name** Dark Cutting Oil

### Other means of identification

**Product code** GHSRDO005D

**Synonyms** Not applicable

### Recommended use of the chemical and restrictions on use

**Recommended Use** Metalworking fluid, industrial lubricant.

**Uses advised against** No other uses are recommended

### Details of the supplier of the safety data sheet

#### **Supplier Address**

L.H. Dottie Company  
6131 Garfield Avenue  
Commerce, CA 90040

#### **Emergency telephone number**

**Emergency telephone** Chemtrec 1-800-424-9300

## 2. Hazards Identification

### Classification

Petroleum based fluid of generally low toxicity.

Effects on or via lactation	Yes
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### Label Elements

#### **Signal word**

None

#### **Hazard statements**

May cause harm to breast-fed children

#### **Appearance**

Light brown

#### **Physical State**

Oily liquid

#### **Odor**

Mild, bland hydrocarbon odor.

**Hazards not otherwise classified (HNOC)** None

**Other Hazards** None

**Unknown acute toxicity** Not toxic

## 3. Composition/information on Ingredients

Chemical Name	CAS No	Weight %
Petroleum distillates, hydrotreated light naphthenic	64742-53-6	90-95
Proprietary Additive	PROPRIETARY	5-10
Chlorinated Paraffin	63449-39-8	1-5

## 4. First aid measures



**FIRST AID MEASURES**

<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>Skin contact</b>	Wash skin with soap and water.
<b>Inhalation</b>	Remove to fresh air.
<b>Ingestion</b>	Clean mouth with water and drink plenty of water.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** Not applicable.

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

**Note to physicians** Treat symptomatically.

## 5. Fire-fighting measures

<b><u>Suitable Extinguishing Media</u></b>	Dry chemical, CO2 or water spray.
<b><u>Unsuitable extinguishing media</u></b>	Not applicable.
<b><u>Specific hazards arising from the chemical</u></b>	Not applicable.
<b><u>Hazardous combustion products</u></b>	Oxides of chlorine, carbon, sulfur and hydrogen chloride.
<b><u>Explosion data</u></b>	
<b><u>Sensitivity to Mechanical Impact</u></b>	Not applicable.
<b><u>Sensitivity to Static Discharge</u></b>	Not applicable.
<b><u>Special protective actions for fire-fighters</u></b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas.

**Environmental precautions**

**Environmental precautions** Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.

**Methods and material for containment and cleaning up**

<b>Methods for Containment</b>	Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).
<b>Methods for cleaning up</b>	Pick up and transfer to properly labeled containers.

## 7. Handling and Storage

**Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible materials** None known based on information supplied.

## 8. Exposure Controls/Personal Protection

**Control parameters**

**Exposure guidelines** Exposure limits for purified mineral oil as mist: US-ACGIH reports: TWA-5 mg/m<sup>3</sup> and STEL-10 mg/m<sup>3</sup>; US-OSHA PEL 5 mg/m<sup>3</sup>.

**Appropriate engineering controls**

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

**Individual protection measures, such as personal protective equipment**

**Eye/face Protection** No special technical protective measures are necessary.

**Skin and Body Protection** No special technical protective measures are necessary.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General hygiene considerations** Wash contaminated clothing before reuse.

## 9. Physical and Chemical Properties

**Information on basic physical and chemical properties**

<b>Physical State</b>	Oily liquid	<b>Odor</b>	Mild, bland hydrocarbon odor.
<b>Appearance</b>	Light brown	<b>Odor threshold</b>	No data available
<b>Color</b>	Light brown		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No data available	
Melting point/freezing point	No data available	
Boiling point / boiling range	No data available	
Flash Point	174 °C / 345 °F	
Evaporation Rate	No data available	
Flammability (solid, gas)	No data available	
Flammability Limit in Air		
Upper flammability limit:	No data available	
Lower flammability limit:	No data available	
Vapor pressure	No data available	
Vapor Density	No data available	
Specific gravity	0.8487	
Water solubility	No data available	
Solubility in other solvents	No data available	
Partition coefficient	No data available	
Autoignition Temperature	No data available	
Decomposition temperature	No data available	
Kinematic viscosity	No data available	

**Dynamic viscosity** No data available

#### Other Information

**Density** No data available

**VOC content (%)** 28.8 g/l per ASTM E-1868-10. Super Compliant per SCAQMD Rule 1144.

### 10. Stability and Reactivity

#### Reactivity

Not applicable.

**Chemical stability** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions** None under normal processing.

**Conditions to avoid** Extremes of temperature and direct sunlight.

**Incompatible materials** None known based on information supplied.

**Hazardous Decomposition Products** None known based on information supplied.

### 11. Toxicological Information

#### Information on likely routes of exposure

**Product Information** Not applicable

**Inhalation** This product is not classified as acutely toxic by inhalation.

**Eye Contact** This product is not classified as an eye irritant.

**Skin contact** This product is not classified as acutely toxic by the dermal route.

**Ingestion** This product is not classified as acutely toxic by the oral route.

Chemical Name	Oral LD50	Dermal LD50
Chlorinated Paraffin 63449-39-8	= 26100 mg/kg ( Rat )	> 10 mL/kg ( Rabbit )

#### Information on toxicological effects

**Symptoms** No information available.

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

**Sensitization** This product is not classified as a skin sensitizer.

**Germ cell mutagenicity** None of the components are currently classified as mutagenic.

**Carcinogenicity** None of the components are currently classified as carcinogenic.

Chemical Name	ACGIH	IARC	NTP	OSHA
Chlorinated Paraffin 63449-39-8		Group 2B		X

**Reproductive Toxicity** No information available.

**STOT - single exposure** Not classified; based on data on components.

**STOT - repeated exposure** Not classified; based on data on components.

**Aspiration hazard** No information available.

#### Numerical measures of toxicity - Product Information

**Unknown acute toxicity** Not toxic

**The following values are calculated based on chapter 3.1 of the GHS document** Not determined.

### 12. Ecological Information

**Ecotoxicity** Except for medium chain chlorinated paraffins, none of the components of this product are expected to be environmentally persistent or not readily biodegradable.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Petroleum distillates, hydrotreated light naphthenic 64742-53-6		5000: 96 h Oncorhynchus mykiss mg/L LC50		1000: 48 h Daphnia magna mg/L EC50
Chlorinated Paraffin 63449-39-8		0.1: 96 h Lepomis macrochirus mg/L LC50 flow-through 100: 96 h Pimephales promelas mg/L LC50 static 0.0109: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 300: 96 h Lepomis macrochirus mg/L LC50 static 94.5 - 271: 96 h Oncorhynchus mykiss mg/L LC50 static		102: 24 h Daphnia magna mg/L EC50

**Persistence and degradability** Some components of this product are not readily biodegradable.

**Bioaccumulation** Some components may bioconcentrate in aquatic organisms.

Chemical Name	Partition coefficient
Chlorinated Paraffin 63449-39-8	>6

**Other adverse effects** Not determined

### 13. Disposal Considerations

#### Waste treatment methods

**Disposal of wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging** Do not reuse container.

### 14. Transport Information

<b><u>DOT</u></b>	Not regulated
<b><u>TDG</u></b>	Not determined
<b><u>MEX</u></b>	Not determined
<b><u>ICAO (air)</u></b>	Not determined
<b><u>IATA</u></b>	Not determined
<b><u>IMDG</u></b>	Not determined
<b><u>RID</u></b>	Not determined
<b><u>ADR</u></b>	Not determined
<b><u>ADN</u></b>	Not determined

### 15. Regulatory information

#### International Inventories

**TSCA** Complies

DSL/NDSL	Not determined
ENCS	Not determined
IECSC	Not determined
KECL	Not determined
PICCS	Not determined
AICS	Not determined

**Legend:**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List  
 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
 ENCS - Japan Existing and New Chemical Substances  
 IECSC - China Inventory of Existing Chemical Substances  
 KECL - Korean Existing and Evaluated Chemical Substances  
 PICCS - Philippines Inventory of Chemicals and Chemical Substances  
 AICS - Australian Inventory of Chemical Substances

**US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

Acute Health Hazard	No
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (4

**US State Regulations****California Proposition 65**

This product is not known to contain any Proposition 65 chemicals

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Petroleum distillates, hydrotreated light naphthenic 64742-53-6		X	
Chlorinated Paraffin 63449-39-8		X	

**U.S. EPA Label information**

EPA Pesticide registration number Not applicable

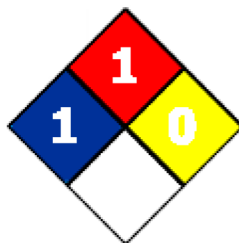
**16. Other information**

NFPA

Health hazards 1

Flammability 1

Instability 0

Physical and chemical  
properties -HMIS

Health hazards 1

Flammability 1

Physical Hazards 0

Personal Protection H  
X

Issue date 18-Jul-2015

Revision date 29-Jul-2015

Revision note

Not applicable

Disclaimer

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**End of Safety Data Sheet**