



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

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

<u>Suitable Extinguishing Media</u>	Dry chemical, CO2 or water spray.
<u>Unsuitable extinguishing media</u>	Not applicable.
<u>Specific hazards arising from the chemical</u>	Not applicable.
<u>Hazardous combustion products</u>	Oxides of chlorine, carbon, sulfur and hydrogen chloride.
<u>Explosion data</u>	
<u>Sensitivity to Mechanical Impact</u>	Not applicable.
<u>Sensitivity to Static Discharge</u>	Not applicable.
<u>Special protective actions for fire-fighters</u>	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

Methods for Containment	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).
Methods for cleaning up	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/m³ and STEL-10 mg/m³; US-OSHA PEL 5 mg/m³.

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

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

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

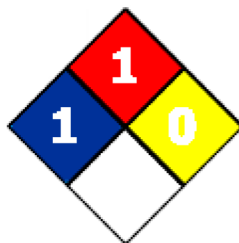
16. Other information

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

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



Safety Data Sheet

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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

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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

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

<u>Suitable Extinguishing Media</u>	Dry chemical, CO2 or water spray.
<u>Unsuitable extinguishing media</u>	Not applicable.
<u>Specific hazards arising from the chemical</u>	Not applicable.
<u>Hazardous combustion products</u>	Oxides of chlorine, carbon, sulfur and hydrogen chloride.
<u>Explosion data</u>	
<u>Sensitivity to Mechanical Impact</u>	Not applicable.
<u>Sensitivity to Static Discharge</u>	Not applicable.
<u>Special protective actions for fire-fighters</u>	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

Methods for Containment	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).
Methods for cleaning up	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/m³ and STEL-10 mg/m³; US-OSHA PEL 5 mg/m³.

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

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

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

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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

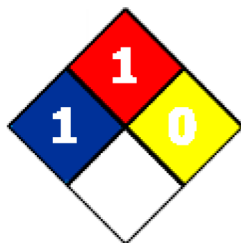
16. Other information

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

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End of Safety Data Sheet