

## 1. Chemical Product and Company Identification

<b>Material name</b>	<b>OAK DRAW® 519</b> EVAPORATIVE LUBRICANT
<b>Version #</b>	01
<b>Issue date</b>	05-08-2015
<b>CAS #</b>	Mixture
<b>MSDS Number</b>	Not applicable
<b>Recommended use</b>	EVAPORATIVE LUBRICANT
<b>Manufacturer</b>	
<b>Company name</b>	CIMCOOL® Industrial Products LLC 3000 Disney Street Cincinnati, Ohio 45209 513-458-8199
<b>Telephone (General Information)</b>	
<b>Emergency telephone number</b>	1-800-424-9300 (CHEMTREC)
<b>Emergency telephone number (outside USA)</b>	1-703-527-3887 (CHEMTREC)
<b>Supplier</b>	
<b>Company name</b>	Milacron Canada Corp.
<b>Address</b>	1175 Appleby Line Road, Unit B-1 Burlington Ontario L7L5H9 Canada 905-319-1919
<b>Telephone (General Information)</b>	
<b>Emergency telephone number (outside USA)</b>	1-703-527-3887 (CHEMTREC)

## 2. Hazards Identification

<b>Emergency overview</b>	Combustible liquid. May cause eye irritation. May cause skin irritation. May be fatal if swallowed and enters airways. Avoid prolonged contact with eyes, skin and clothing.
<b>Potential health effects</b>	
<b>Routes of exposure</b>	Inhalation. Ingestion. Skin contact. Eye contact.
<b>Eyes</b>	May cause eye irritation. Health injuries are not known or expected under normal use.
<b>Skin</b>	May cause skin irritation. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
<b>Inhalation</b>	Prolonged inhalation may be harmful. Health injuries are not known or expected under normal use.
<b>Ingestion</b>	Pulmonary aspiration hazard if swallowed and/or vomiting occurs - can enter lungs and cause damage. Do not ingest.

## 3. Composition/Information on Ingredients

Components	CAS #	Percent
C9-C11 ISOALKANES	68551-16-6	60 - 100

## 4. FIRST AID MEASURES

<b>First aid procedures</b>	
<b>Inhalation</b>	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, get medical attention.
<b>Skin contact</b>	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
<b>Eye contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms occur.

<b>Ingestion</b>	Rinse mouth thoroughly. Do not induce vomiting. Do not give liquids. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Call a POISON CENTER or doctor/physician if you feel unwell.
<b>Notes to physician</b>	Provide general supportive measures and treat symptomatically. Symptoms may be delayed.
<b>General advice</b>	If exposed or concerned: Get medical advice/attention. Show this safety data sheet to the doctor in attendance.

## 5. FIRE FIGHTING MEASURES

<b>Flammable properties</b>	Combustible by WHMIS criteria. Heat may cause the containers to explode.
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ). Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Protection of firefighters</b>	
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed. Vapors may travel considerable distance to a source of ignition and flash back.
<b>Protective equipment for firefighters</b>	Wear suitable protective equipment. In the event of fire, wear self-contained breathing apparatus.
<b>Fire fighting equipment/instructions</b>	Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Some of these materials, if spilled, may evaporate leaving a flammable residue.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials. In the event of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
<b>Explosion data</b>	
<b>Sensitivity to static discharge</b>	Not applicable.
<b>Sensitivity to mechanical impact</b>	Not applicable.
<b>Hazardous combustion products</b>	Smoke, fumes, and oxides of carbon
<b>General fire hazards</b>	Combustible liquid.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	Keep unnecessary personnel away. Wear appropriate personal protective equipment. Avoid inhalation of vapors or mists. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the MSDS.
<b>Environmental precautions</b>	Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination. Contact local authorities in case of spillage to drain/aquatic environment.
<b>Methods for containment</b>	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewer, basements or confined areas.
<b>Methods for cleaning up</b>	<p>Extinguish all flames in the vicinity. Local authorities should be advised if significant spillages cannot be contained. The product is immiscible with water and will spread on the water surface.</p> <p>Large Spills: Stop the flow of material, if this is without risk. Absorb in vermiculite, dry sand or earth and place into containers. Prevent product from entering drains. Following product recovery, flush area with water.</p> <p>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills to original containers for re-use. For waste disposal, see section 13 of the MSDS.</p>
<b>Other information</b>	Clean up in accordance with all applicable regulations.

## 7. HANDLING AND STORAGE

### Handling

Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Electrostatic Accumulation Hazard: Use proper grounding or bonding procedures. Additional information regarding the safe handling of products with static accumulation potential can be ordered from the American Petroleum Institute (API) request API Recommended Practice 2003 or from the National Fire Protection Association (NFPA) request NFPA 77. Do not ingest. Do not get this material on clothing. Avoid breathing mist or vapor. Avoid contact with skin and eyes. Avoid prolonged and repeated contact. Use only in well-ventilated areas. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash thoroughly after handling. Wash contaminated clothing before reuse. Practice good housekeeping. Handle and open container with care. Do not empty into drains.

### Storage

Do not handle or store near an open flame, heat or other sources of ignition. To maintain product quality, do not store in heat or direct sunlight. Use care in handling/storage. Keep containers closed when not in use. Keep away from food, drink and animal feedingstuffs. Store in original container. Store away from incompatible materials (see Section 10 of the MSDS). Store in a well-ventilated place. Room temperature - normal conditions. Do not allow material to freeze. If frozen, product may separate. Thaw completely at room temperature and stir thoroughly prior to use.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Occupational exposure limits

#### ACGIH

	Type	Value
C9-C11 ISOALKANES (CAS 68551-16-6)	TWA	100 ppm

#### U.S. - OSHA

	Type	Value
C9-C11 ISOALKANES (CAS 68551-16-6)	PEL	500 ppm

### Biological limit values

No biological exposure limits noted for the ingredient(s).

### Engineering controls

Ensure compliance with applicable exposure limits. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash fountain and emergency showers are recommended.

### Personal protective equipment

#### Eye/face protection

Wear safety glasses with side shields (or goggles). Do not get in eyes. Eye wash fountain is recommended.

#### Skin protection

Wear suitable protective clothing and gloves.

#### Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

#### Hand protection

Use protective gloves made of: Nitrile.

## 9. PHYSICAL & CHEMICAL PROPERTIES

Appearance	CLEAR
Physical state	Liquid.
Form	Liquid.
Color	Not available.
Odor	CHEMICAL
Odor threshold	Not available.
pH	Not Applicable
Vapor pressure	Not available.
Vapor density	Not available.
Boiling point	> 352 °F (> 177.78 °C)
Melting point/Freezing point	Not available.
Solubility (water)	Insoluble
Specific gravity	0.76

<b>Relative density</b>	Not available.
<b>Flash point</b>	118 °F (47.8 °C) Tag Closed Cup
<b>Flammability limits in air, upper, % by volume</b>	Not available.
<b>Flammability limits in air, lower, % by volume</b>	Not available.
<b>Auto-ignition temperature</b>	637 °F (336.11 °C)
<b>Viscosity</b>	1.12 cSt @ 38°C
<b>Other data</b>	
<b>Flash point class</b>	Combustible II
<b>VOC ASTM D2369</b>	100 %

## 10. Stability and Reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Conditions to avoid</b>	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
<b>Incompatible materials</b>	Avoid contact with oxidizers or reducing agents. Strong acids. Strong oxidizing substances.
<b>Hazardous decomposition products</b>	Smoke, fumes, and oxides of carbon
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use. Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

### Toxicological data

Components	Species	Test Results
C9-C11 ISOALKANES (CAS 68551-16-6)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	15400 mg/kg
<i>Inhalation</i>		
LC50	Rat	12.4 mg/l, 4 hours
<i>Oral</i>		
LD50	Rat	34600 mg/kg
<b>Chronic</b>		
<i>Inhalation</i>		
NOEL	Rat	> 922 ppm, 6 hours

<b>Acute effects</b>	May be fatal if swallowed and enters airways. Expected to be a low hazard for usual industrial or commercial handling by trained personnel.
<b>Sensitization</b>	Not classified.
<b>Chronic effects</b>	Prolonged exposure may cause chronic effects.
<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
<b>Skin corrosion/irritation</b>	Prolonged skin contact may cause temporary irritation. Defatting, drying and cracking of skin.
<b>Serious eye damage/irritation</b>	Direct contact with eyes may cause temporary irritation.
<b>Mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
<b>Reproductive effects</b>	This product is not expected to cause reproductive or developmental effects.
<b>Teratogenicity</b>	Not classified.
<b>Symptoms and target organs</b>	Aspiration may cause pulmonary edema and pneumonitis. Direct contact with eyes may cause temporary irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Defatting of the skin.
<b>Synergistic materials</b>	Not applicable.
<b>Further information</b>	Symptoms may be delayed.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicological data

Components	Species		Test Results
C9-C11 ISOALKANES (CAS 68551-16-6)			
<b>Aquatic</b>			
<i>Acute</i>			
Crustacea	EC50	Daphnia	1000 mg/l, 48 hours
Fish	LC50	Rainbow Trout	1000 mg/l, 96 hours
<b>Ecotoxicity</b>	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.		
<b>Environmental effects</b>	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.		
<b>Aquatic toxicity</b>	Not available.		
<b>Persistence and degradability</b>	Not available.		
<b>Mobility in environmental media</b>	The product is immiscible with water and will spread on the water surface.		

## 13. DISPOSAL CONSIDERATIONS

<b>Disposal instructions</b>	Consult authorities before disposal. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.

## 14. Transport Information

### TDG

<b>UN number</b>	UN1268
<b>UN proper shipping name</b>	PETROLEUM PRODUCTS, N.O.S. (C9-C11 ISOALKANES)
<b>Transport hazard class(es)</b>	
<b>Class</b>	3
<b>Subsidiary risk</b>	-
<b>Packing group</b>	III
<b>Environmental hazards</b>	Not available.
<b>Special precautions for user</b>	Read safety instructions, MSDS and emergency procedures before handling.
Supplemental Information: This material may be transported by Road or Rail without applying some parts of Canadian TDG Regulations requirements if all criteria referenced in the paragraph 1.33 Class 3 Flammable Liquids: General Exemptions are met and it is in "non-bulk"packages (450 liters or less).	

### IATA

<b>UN number</b>	UN1268
<b>UN proper shipping name</b>	Petroleum products, n.o.s. (C9-C11 ISOALKANES)
<b>Transport hazard class(es)</b>	
<b>Class</b>	3
<b>Subsidiary risk</b>	-
<b>Packing group</b>	III
<b>Environmental hazards</b>	No.
<b>ERG Code</b>	3L
<b>Special precautions for user</b>	Read safety instructions, MSDS and emergency procedures before handling.
<b>Other information</b>	
<b>Passenger and cargo aircraft</b>	Allowed.
<b>Cargo aircraft only</b>	Allowed.

### IMDG

<b>UN number</b>	UN1268
<b>UN proper shipping name</b>	PETROLEUM PRODUCTS, N.O.S. (C9-C11 ISOALKANES)

**Transport hazard class(es)**

**Class** 3  
**Subsidiary risk** -  
**Packing group** III

**Environmental hazards**

**Marine pollutant** No.  
**EmS** F-E, S-E

**Special precautions for user** Read safety instructions, MSDS and emergency procedures before handling.

IATA; IMDG; TDG

**15. REGULATORY INFORMATION****Canadian regulations**

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

**WHMIS status**

Controlled

**WHMIS classification**

B3 - Combustible Liquids  
D2B - Other Toxic Effects-TOXIC

**WHMIS labeling****International Inventories**

Country(s) or region	Inventory name	On inventory or exempt (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

**16. OTHER INFORMATION****HMIS® ratings**

Health: 1  
Flammability: 2  
Physical hazard: 0

**NFPA ratings**

Health: 1  
Flammability: 2  
Instability: 0

**Disclaimer**

The information provided in this 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.

**Prepared by**

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**This data sheet contains changes from the previous version in section(s):**

This document has undergone significant changes and should be reviewed in its entirety.