Safety Data Sheet

Issue date 21-May-2018 **Revision date** 23-Aug-2019 **Revision Number** 3

1. IDENTIFICATION

Product identification

Product identifier	Rotanium Clean Lube II PTFE Dry Lubricant
Other means of identification	P90385
Recommended use	Lubricant
Restrictions on use	For industrial use only

Supplier

Corporate Headquarters:
Lawson Products, Inc.
8770 W. Bryn Mawr Ave., Suite 900
Chicago, IL 60631
(866) 837-9908

Canadian Distribution Center:
Lawson Canada
7315 Rapistan Court
Mississauga, ON L5N 5Z4
(800) 323-5922

24 Hour Emergency Phone Number (888) 426-4851 (Prosar)

Website https://www.lawsonproducts.com

2. HAZARD(S) IDENTIFICATION

Hazard Classification This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), WHMIS 2015 and GHS Regulations.

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2B
Aspiration toxicity	Category 1
Flammable aerosols	Category 1
Gases under pressure	Liquefied Gas

Symbol

Signal word DANGER

Hazard statements
H222 - Extremely flammable aerosol
H280 - Contains gas under pressure; may explode if heated

H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H320 - Causes eye irritation

Precautionary statements

General

P101 - If medical advice is needed, have product container or label at hand
P102 - Keep out of reach of children
P103 - Read label before use.

Prevention

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 - Do not spray on an open flame or other ignition source
P251 - Pressurized container: Do not pierce or burn, even after use
P264 - Wash hands thoroughly after handling
P280 - Wear protective gloves/protective clothing and eye/face protection

Response

Eyes

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337 + P313 - If eye irritation persists: Get medical advice/attention

Skin

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P332 + P313 - If skin irritation occurs: Get medical advice/attention
P362 - Take off contaminated clothing and wash before reuse
P321 - For Specific treatment see section 4 of this sds

Ingestion

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P331 - Do NOT induce vomiting

Storage

P405 - Store locked up
P403 - Store in a well-ventilated place
P410 - Protect from sunlight
P412 - Do not expose to temperatures exceeding 50 °C/122 °F

Disposal

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

Hazard(s) Not Otherwise Classified (HNOC)

Not available.

Physical Hazards Not Otherwise Classified (PHNOC)

None known.

Unknown acute toxicity

Not available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Composition

Mixture.

Chemical name	CAS-No	Weight %
Naphtha, petroleum, hydrotreated light	64742-49-0	50-55
Propane	74-98-6	20-25
Butane	106-97-8	15-25
Cyclohexane	110-82-7	1-5

4. FIRST-AID MEASURES

Necessary first-aid measures

Inhalation	Remove to fresh air. Provide oxygen if breathing is difficult. Administer artificial respiration if not breathing. Seek medical attention immediately.
Ingestion	Not a likely exposure route. If a large quantity of liquid is swallowed, do not induce vomiting, call a physician or poison control center immediately.
Skin contact	Wipe off with a towel. Wash area thoroughly with soap and water. Seek medical attention if irritation persists.
Eye contact	Flush with plenty of water for at least 15 minutes. Seek medical attention.
Most important symptoms (acute)	Repeated exposure may cause skin dryness or cracking. May cause drowsiness or dizziness.
Most important symptoms (over-exposure)	No known significant effects or critical hazards.
Indication of any immediate medical attention and special treatment needed	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Dry Chemical, Carbon Dioxide, Foam or Water Fog. Alcohol resistant foam.
Unsuitable extinguishing media	Water spray may be ineffective.
Specific hazards	Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention. Liquid content of container will support combustion. Hazardous Thermal Decomposition Products:. Carbon dioxide. Carbon monoxide. Toxic fumes.
Special protective equipment for fire-fighters	Water may be used to cool closed containers to prevent pressure build-up and/or explosion when exposed to extreme heat. Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Water spray may be ineffective. If water is used, fog nozzles are preferable.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Avoid breathing vapor or mist. Ventilate the area. Remove all sources of ignition.
Methods and materials for containment and cleaning up	Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

7. HANDLING AND STORAGE

Precautions for	Do not puncture or incinerate cans. Do not stick pin, nail, or any other sharp object into opening on top of can. Do not spray in eyes. Do not take internally. See product label for

safe handling additional information.

Conditions for safe storage, including any incompatibilities Keep in a dry, cool and well-ventilated place. Store at temperatures not exceeding 48 °C/ 120 °F.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical name	OSHA PEL (TWA)	ACGIH OEL (TWA)	NIOSH - TWA
Naphtha, petroleum, hydrotreated light	-	-	-
Propane	1000 ppm TWA 1800 mg/m³ TWA	-	1000 ppm TWA 1800 mg/m³ TWA
Butane	-	1000 ppm STEL	800 ppm TWA 1900 mg/m³ TWA
Cyclohexane	300 ppm TWA 1050 mg/m³ TWA	100 ppm TWA	300 ppm TWA 1050 mg/m³ TWA

Appropriate engineering controls Good ventilation should be sufficient to control worker exposure to airborne contaminants. General dilution and/or local exhaust ventilation in volume to keep PEL/TLV of most hazardous ingredient below acceptable limit and LEL below stated limit. A safety shower and eye wash station should be available for emergency use.

Individual protection measures, such as personal protective equipment

Eye protection ANSI approved safety glasses or splash goggles are recommended. Face shield is recommended.

Skin and body protection None under normal use conditions. Solvent resistant apron is recommended. A safety shower and eye wash station should be available for emergency use. Latex gloves.

Respiratory protection None under normal use. Avoid breathing vapors. In restricted areas, use approved chemical/mechanical filters designed to remove a combination of particles and vapors. In confined areas, use an approved air line respirator or hood. Self-contained breathing apparatus is required for vapor concentrations above PEL/TLV limits. Wear a NIOSH approved organic vapor respirator.

Hygiene measures When using, do not eat, drink or smoke. Handle in accordance with good industrial hygiene and safety practice.

Canadian Province Occupational Exposure Limits

Chemical name	Alberta OEL	British Columbia OEL	Manitoba OEL	New Brunswick - OEL	Newfoundland & Labrador - OEL	Nova Scotia - OEL	Ontario OEL	Prince Edward Island - OEL	Quebec OEL	Saskatchewan - OEL
Naphtha, petroleum, hydrotreated light	-	-	-	-	-	-	-	-	-	-
Propane	1000 ppm TWA	-	-	-	-	-	-	-	1000 ppm TWAEV 1800 mg/m³ TWAEV	1250 ppm STEL 1000 ppm TWA 1000 ppm TWA
Butane	1000 ppm TWA	750 ppm STEL	1000 ppm STEL	800 ppm TWA 1900 mg/m³	1000 ppm STEL	1000 ppm STEL	1000 ppm STEL	1000 ppm STEL	800 ppm TWAEV 1900 mg/m³	1250 ppm STEL 1000 ppm

Chemical name	Alberta OEL	British Columbia OEL	Manitoba OEL	New Brunswick - OEL	Newfoundland & Labrador - OEL	Nova Scotia - OEL	Ontario OEL	Prince Edward Island - OEL	Quebec OEL	Saskatchewan - OEL
				TWA					TWAEV	TWA 1000 ppm TWA 1000 ppm TWA
Cyclohexane	100 ppm TWA 344 mg/m³ TWA	100 ppm TWA	100 ppm TWA	300 ppm TWA 1030 mg/m³ TWA	100 ppm TWA	100 ppm TWA	100 ppm TWA	100 ppm TWA	300 ppm TWAEV 1030 mg/m³ TWAEV	150 ppm STEL 100 ppm TWA

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Aerosol
Color	No information available
Odor	Solvent
Odor threshold	No information available
pH	No data available
Melting point/range °C	No data available
Melting point/range °F	No data available
Boiling point/range °C	No data available
Boiling point/range °F	No data available
Flash point °C / °F	No data available
Evaporation rate	Slower than ether
Flammability (Solid, Gas)	No information available
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapor pressure	No data available
Vapor density	heavier than air
Relative density	.626
Solubility	No information available
Partition coefficient (n-octanol/water)	No data available
Autoignition temperature °C	No data available
Autoignition temperature °F	No data available
Decomposition temperature °C	No data available

Decomposition temperature °F No data available

Viscosity No data available

10. STABILITY AND REACTIVITY

Reactivity No dangerous reactions under normal conditions of use.

Chemical stability Stable under recommended storage conditions.

Possibility of hazardous reactions None under normal conditions of use.

Conditions to avoid Avoid heat, sparks, and other sources of ignition.

Incompatible materials Not available.

Hazardous decomposition products Carbon dioxide (CO2). Carbon monoxide. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure Dermal. Inhalation. Ingestion. Eyes.

Symptoms Long term toxicological studies have not been done on this product.

Delayed and immediate effects as well as chronic effects from short and long-term exposure Not available.

Numerical measures of toxicity

Chemical name	Inhalation LC50:	Dermal LD50:	Oral LD50:
Naphtha, petroleum, hydrotreated light	= 73680 ppm (Rat) 4 h	> 3160 mg/kg (Rabbit) > 2000 mg/kg (Rabbit)	> 5000 mg/kg (Rat) > 4300 mg/kg (Rat)
Propane	> 800000 ppm (Rat) 15 min	-	-
Butane	= 658 g/m³ (Rat) 4 h	-	-
Cyclohexane	> 9500 ppm (Rat) 4 h	> 2000 mg/kg (Rabbit)	= 12705 mg/kg (Rat)

ATEmix (dermal) Not available

ATEmix (oral) Not available

ATEmix (inhalation-gas) Not available

ATEmix (inhalation-vapor) Not available

ATEmix (inhalation-dust/mist) Not available

Carcinogenicity

Chemical name	ACGIH OEL - Carcinogens	IARC	OSHA RTK Carcinogens	NTP
Naphtha, petroleum, hydrotreated light	-	Group 3	-	-

Chemical name	ACGIH OEL - Carcinogens	IARC	OSHA RTK Carcinogens	NTP
Propane	-	-	-	-
Butane	-	-	-	-
Cyclohexane	-	-	-	-

Canadian Province carcinogenicity limits

Chemical name	Alberta - Carcinogen	British Columbia - Carcinogen	Manitoba - Carcinogen	New Brunswick - Carcinogen	Nova Scotia - Carcinogen	Quebec - Carcinogen
Naphtha, petroleum, hydrotreated light	-	-	-	-	-	-
Propane	-	-	-	-	-	-
Butane	-	-	-	-	-	-
Cyclohexane	-	-	-	-	-	-

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish
Naphtha, petroleum, hydrotreated light	-	258: 96 h Salmo gairdneri mg/L LC50 static
Propane	-	-
Butane	-	-
Cyclohexane	500: 72 h Desmodesmus subspicatus mg/L EC50	3.96 - 5.18: 96 h Pimephales promelas mg/L LC50 flow-through 23.03 - 42.07: 96 h Pimephales promelas mg/L LC50 static 24.99 - 44.69: 96 h Lepomis macrochirus mg/L LC50 static 48.87 - 68.76: 96 h Poecilia reticulata mg/L LC50 static

Persistence and degradability No data available.

Bioaccumulation

Chemical name	CAS-No	Partition coefficient (log Kow)
Naphtha, petroleum, hydrotreated light 64742-49-0	64742-49-0	-
Propane 74-98-6	74-98-6	2.3 <=2.8
Butane 106-97-8	106-97-8	2.89 <=2.8
Cyclohexane 110-82-7	110-82-7	3.44

Mobility in soil Not available.

Other adverse effects No known significant effects or critical hazards.

13. DISPOSAL CONSIDERATIONS

Disposal information Emptied container retains product residue. Dispose of all product, residues and clean-up materials in accordance with local, state, and federal regulations.

Contaminated packaging Dispose in accordance with local, state and federal regulations.

14. TRANSPORTATION INFORMATION

Shipping Descriptions

DOT

ID-No	UN1950
Proper shipping name	Aerosols
Hazard Class(es)	2.1
Subsidiary Risk	
Packing group	
Special Provisions	LTD QTY

TDG

ID-No	UN1950
Proper shipping name	Aerosols
Hazard Class(es)	2.1
Packing group	
Special Provisions	LTD QTY

IATA

ID-No	UN1950
Proper shipping name	Aerosols, flammable
Hazard Class(es)	2.1
Subsidiary Risk	
Packing group	
Special Provisions	LTD QTY

IMDG/IMO

ID-No	UN1950
Proper shipping name	Aerosols
Hazard Class(es)	2.1
Packing group	
Special Provisions	LTD QTY

Marine Pollutants

Chemical name	CAS-No	USDOT Marine Pollutant	Canada TDG Marine Pollutant	IMDG Marine Pollutant
Naphtha, petroleum, hydrotreated light	64742-49-0	-	-	-
Propane	74-98-6	-	-	-
Butane	106-97-8	-	-	-
Cyclohexane	110-82-7	-	-	-

Special Precautions Multi-modal shipping descriptions are provided for informational purposes and do not consider container size. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

15. REGULATORY INFORMATION

State regulations

U.S. state Right-to-Know regulations

Chemical name	CAS-No	Massachusetts - RTK	New Jersey - RTK	Pennsylvania - RTK
Naphtha, petroleum, hydrotreated light	64742-49-0	X	X	X
Propane	74-98-6	X	X	X
Butane	106-97-8	X	X	X
Cyclohexane	110-82-7	X	X	X

California Prop. 65

Chemical name	CAS-No	California Prop. 65
Naphtha, petroleum, hydrotreated light	64742-49-0	-
Propane	74-98-6	-
Butane	106-97-8	-
Cyclohexane	110-82-7	-

California Proposition 65

U.S. Federal Regulations

US EPA SARA 313

Chemical name	CAS-No	CERCLA/SARA Hazardous Substances RQ	SARA 313 - Threshold Values
Naphtha, petroleum, hydrotreated light	64742-49-0	-	-
Propane	74-98-6	-	-
Butane	106-97-8	-	-
Cyclohexane	110-82-7	1000 lb 454 kg	1.0 %

US EPA SARA 311/312 hazardous categorization Not available

Chemical name	DSL/NDSL	Inventory - United States - Section 8(b) Inventory (TSCA)	U.S. - TSCA (Toxic Substances Control Act) - Section 12(b) - Export Notification
Naphtha, petroleum, hydrotreated light	X	X	-
Propane	X	X	-
Butane	X	X	-
Cyclohexane	X	X	X

Legend X - Listed

16. OTHER INFORMATION

NFPA

Health	Not available
Flammability	Not available
Instability	Not available

HMIS

Health	Not available
Flammability	Not available
Physical hazards	Not available

Notice: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA).

Prepared by Regulatory Affairs

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Revision note

Key to abbreviations

ACGIH (American Conference of Governmental Industrial Hygienists)
ATE (Average Toxicity Estimate)
DSL/NDSL (Domestic Substance List/Non-Domestic Substance List)
HMIS (Hazardous Materials Identification System)
IARC (International Agency for Research on Cancer)
IATA (International Air Transport Association)
IMDG/IMO (International Maritime Dangerous Goods/International Maritime Orgnaization)
NFPA (National Fire Protection Association)
NTP (National Toxicology Program)
OEL (Occupational Exposure Level)
OSHA (Occupational Safety and Health Administration of the US Department of Labor)
PEL (Permissible Exposure Limit)
TSCA (Toxic Substance Control Act)
USEPA (United States Environmental Protection Agency)

End of Safety Data Sheet