

Issue date 22-May-2018

Revision date 13-Apr-2018

Revision Number 1

1. IDENTIFICATION

Product identification

Product identifier Rotanium Kool-Kut Metal Cutting Lubricant
 Other means of identification P91240
 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)

2. HAZARD(S) IDENTIFICATION

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

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1B
Carcinogenicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Gases under pressure	Compressed gas

Symbol



Signal word

WARNING

Hazard statements

H280 - Contains gas under pressure; may explode if heated
 H315 - Causes skin irritation
 H319 - Causes serious eye irritation
 H336 - May cause drowsiness or dizziness

H340 - May cause genetic defects
H351 - Suspected of causing cancer

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	P201 - Obtain special instructions before use P202 - Do not handle until all safety precautions have been read and understood P261 - Avoid breathing dust/fume/gas/mist/vapors/spray P271 - Use only outdoors or in a well-ventilated area P272 - Contaminated work clothing should not be allowed out of the workplace P280 - Wear protective gloves/protective clothing and eye/face protection P362 - Take off contaminated clothing and wash before reuse
Response	
General	P308 + P313 - IF exposed or concerned: Get medical advice/attention P321 - For Specific treatment see section 4 of this sds
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 P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention P362 - Take off contaminated clothing and wash before reuse
Inhalation	P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell
Ingestion	P331 - Do NOT induce vomiting
Fire	P370 + P378 - In case of fire: Use appropriate method to extinguish
Spill	P391 - Collect spillage
Storage	P405 - Store locked up P403 + P233 - Store in a well-ventilated place. Keep container tightly closed P410 - Protect from sunlight
Disposal	P501 - Dispose of contents/ container to an approved waste disposal plant
Hazard(s) Not Otherwise Classified (HNOC)	Harmful to aquatic life with long lasting effects.
Physical Hazards Not Otherwise Classified (PHNOC)	None known.
Unknown acute toxicity	0.00001%

3. COMPOSITION/INFORMATION ON INGREDIENTS

Composition

Chemical name	CAS-No	Weight %
Tetrachloroethylene	127-18-4	80-90
Glycol Ether DPM	34590-94-8	1-10
Carbon Dioxide	124-38-9	1-10

The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST-AID MEASURES

Necessary first-aid measures

Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Artificial respiration and/or oxygen may be necessary. If breathing has stopped, contact emergency medical services immediately.
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Skin contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If symptoms persist, call a physician.
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

Most important symptoms (acute) Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. Difficulty breathing.

Most important symptoms (over-exposure) Not available.

Indication of any immediate medical attention and special treatment needed Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Water fog. Dry chemical. Carbon dioxide (CO ₂). Cool containers / tanks with water spray.
Unsuitable extinguishing media	Decomposition by contact with water may generate vapours which can be ignited by heat or open flame.
Specific hazards	Sensitivity to static discharge.
Special protective equipment for fire-fighters	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 Avoid contact with eyes, skin, and clothing. Ensure adequate ventilation. Take precautionary measures against static discharge. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Contents under pressure. Do not puncture or incinerate cans. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Avoid breathing vapor or mist. Remove all sources of ignition. Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Report spills as required by local and federal regulations.

Methods and materials for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Contain liquid and collect with an inert, non-combustible material.

7. HANDLING AND STORAGE

Precautions for safe handling

Wear personal protective equipment. Avoid contact with eyes, skin, and clothing. Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Keep in a well-ventilated place. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Contents under pressure. Do not puncture or incinerate cans. Avoid breathing vapors or mists. Do not stick pin, nail, or any other sharp object into opening on top of can.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Keep in properly labelled containers. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep out of reach of children. Keep locked up.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical name	OSHA PEL (TWA)	ACGIH OEL (TWA)	NIOSH - TWA
Tetrachloroethylene	200 ppm Ceiling 100 ppm TWA	100 ppm STEL 25 ppm TWA	-
Glycol Ether DPM	Skin 100 ppm TWA 600 mg/m ³ TWA	150 ppm STEL 100 ppm TWA Skin	150 ppm STEL 900 mg/m ³ STEL 100 ppm TWA 600 mg/m ³ TWA
Carbon Dioxide	5000 ppm TWA 9000 mg/m ³ TWA	30000 ppm STEL 5000 ppm TWA	30000 ppm STEL 54000 mg/m ³ STEL 5000 ppm TWA 9000 mg/m ³ TWA

Appropriate engineering controls

Showers, eyewash stations, and ventilation systems.

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

Safety glasses with side-shields.

Skin and body protection

Chemical resistant apron. Protective gloves.

Respiratory protection

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

Hygiene measures

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 and Labrador - OEL	Nova Scotia - OEL	Ontario OEL	Prince Edward Island - OEL	Quebec OEL	Saskatchewan - OEL
Tetrachloroethylene	100 ppm STEL 678 mg/m ³ STEL 25 ppm TWA 170 mg/m ³ TWA	100 ppm STEL 25 ppm TWA	25 ppm TWA 100 ppm STEL	100 ppm STEL 685 mg/m ³ STEL 25 ppm TWA 170 mg/m ³ TWA	100 ppm STEL 25 ppm TWA	100 ppm STEL 25 ppm TWA	100 ppm STEL 25 ppm TWA	100 ppm STEL 25 ppm TWA	100 ppm STEV 685 mg/m ³ STEV 25 ppm TWA 170 mg/m ³ TWA	100 ppm STEL 25 ppm TWA
Glycol Ether DPM	150 ppm STEL 909 mg/m ³ STEL 100 ppm TWA 606 mg/m ³ TWA	150 ppm STEL 100 ppm TWA	100 ppm TWA 150 ppm STEL	150 ppm STEL 909 mg/m ³ STEL 100 ppm TWA 606 mg/m ³ TWA	150 ppm STEL 100 ppm TWA	150 ppm STEL 100 ppm TWA	150 ppm STEL 100 ppm TWA	150 ppm STEL 100 ppm TWA	150 ppm STEV 909 mg/m ³ STEV 100 ppm TWA 606 mg/m ³ TWA	150 ppm STEL 100 ppm TWA
Carbon Dioxide	30000 ppm STEL 54000 mg/m ³ STEL 5000 ppm TWA 9000 mg/m ³ TWA	15000 ppm STEL 5000 ppm TWA	5000 ppm TWA 30000 ppm STEL	30000 ppm STEL 54000 mg/m ³ STEL 5000 ppm TWA 9000 mg/m ³ TWA	30000 ppm STEL 5000 ppm TWA	30000 ppm STEL 5000 ppm TWA	30000 ppm STEL 5000 ppm TWA	30000 ppm STEL 5000 ppm TWA	30000 ppm STEV 54000 mg/m ³ STEV 5000 ppm TWA 9000 mg/m ³ TWA	30000 ppm STEL 5000 ppm TWA

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Aerosol
Color	Clear
Odor	Solvent
Odor threshold	Not applicable
pH	Not applicable
Melting point/range °C	Not available
Melting point/range °F	32 Not available
Boiling point/range °C	Not available
Boiling point/range °F	Not available
Flash point °C	75
Flash point °F	176
Flash point method used	based on components
Evaporation rate	Not available
Flammability (Solid, Gas)	Not available
Lower explosion limit	Not available

Upper explosion limit	Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	1.518
Solubility	Practically insoluble
Partition coefficient (n-octanol/water)	Not applicable
Autoignition temperature °C	Not applicable
Autoignition temperature °F	Not applicable
Decomposition temperature °C	Not available
Decomposition temperature °F	Not available
Viscosity	Not available

10. STABILITY AND REACTIVITY

Reactivity	Not available.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	Avoid extreme temperatures. Avoid 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	Dermal. Inhalation. Ingestion. Eyes.
Symptoms	May cause irritation of respiratory tract. Vapors may cause drowsiness and dizziness. Avoid breathing vapors or mists. May be harmful if inhaled. Irritating to eyes and skin. Avoid contact with eyes. Avoid contact with skin. Prolonged skin contact may defat the skin and produce dermatitis. May be harmful if swallowed and enters airways. Symptoms of overexposure may be headache, tiredness, nausea, and vomiting.
Delayed and immediate effects as well as chronic effects from short and long-term exposure	May cause adverse liver effects. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Chronic hydrocarbon abuse has been associated with irregular heart rhythms and potential cardiac arrest. Target Organ Effects: Central nervous system. Skin. Eyes. Kidney. Liver. Respiratory system.
Numerical measures of toxicity	

Chemical name	Inhalation LC50:	Dermal LD50:	Oral LD50:
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Chemical name	Inhalation LC50:	Dermal LD50:	Oral LD50:
Tetrachloroethylene	= 27.8 mg/L (Rat) 4 h	-	= 2629 mg/kg (Rat)
Glycol Ether DPM	-	= 9500 mg/kg (Rabbit) = 10 mL/kg (Rabbit)	= 5.35 g/kg (Rat) = 5400 µL/kg (Rat)
Carbon Dioxide	-	-	-

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
Tetrachloroethylene	A3	Group 2A	Listed	Reasonably Anticipated
Glycol Ether DPM	-	-	-	-
Carbon Dioxide	-	-	-	-

Canadian Province carcinogenicity limits

Chemical name	Alberta - Carcinogen	British Columbia - Carcinogen	Manitoba - Carcinogen	New Brunswick - Carcinogen	Nova Scotia - Carcinogen	Quebec - Carcinogen
Tetrachloroethylene	-	IARC 2A	ACGIH A3	ACGIH A3	ACGIH A3	C3 carcinogen
Glycol Ether DPM	-	-	-	-	-	-
Carbon Dioxide	-	-	-	-	-	-

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish
Tetrachloroethylene	500: 96 h Pseudokirchneriella subcapitata mg/L EC50	12.4 - 14.4: 96 h Pimephales promelas mg/L LC50 flow-through 8.6 - 13.5: 96 h Pimephales promelas mg/L LC50 static 11.0 - 15.0: 96 h Lepomis macrochirus mg/L LC50 static 4.73 - 5.27: 96 h Oncorhynchus mykiss mg/L LC50 flow-through
Glycol Ether DPM	-	10000: 96 h Pimephales promelas mg/L LC50 static
Carbon Dioxide	-	-

Persistence and degradability Not available.

Bioaccumulation

Chemical name	CAS-No	Partition coefficient (log Kow)
Tetrachloroethylene 127-18-4	127-18-4	2.53 - 2.88 20 °C
Glycol Ether DPM 34590-94-8	34590-94-8	-0.064 20 °C
Carbon Dioxide 124-38-9	124-38-9	-

Mobility in soil Not available.

Other adverse effects Toxic to aquatic life with long lasting effects

13. DISPOSAL CONSIDERATIONS

Disposal information Dispose of in accordance with federal, state and local regulations.

Contaminated packaging Do not reuse containers.

14. TRANSPORTATION INFORMATION

Shipping Descriptions

DOT

ID-No UN1950
 Proper shipping name Aerosols
 Hazard Class(es) 2.2
 Subsidiary Risk
 Packing group
 Special Provisions LTD QTY

TDG

ID-No UN1950
 Proper shipping name Aerosols
 Hazard Class(es) 2.2
 Subsidiary Risk None
 Packing group
 Special Provisions LTD QTY

IATA

ID-No UN1950
 Proper shipping name Aerosols, non-flammable
 Hazard Class(es) 2.2
 Subsidiary Risk 6.1
 Packing group
 Special Provisions LTD QTY

IMDG/IMO

ID-No UN1950
 Proper shipping name Aerosols
 Hazard Class(es) 2.2
 Subsidiary Risk 6.1
 Packing group
 Special Provisions LTD QTY

Marine Pollutants

Chemical name	CAS-No	USDOT Marine Pollutant	Canada TDG Marine Pollutant	IMDG Marine Pollutant
Tetrachloroethylene	127-18-4	X	X	X
Glycol Ether DPM	34590-94-8	-	-	-
Carbon Dioxide	124-38-9	-	-	-

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
Tetrachloroethylene	127-18-4	X	X	X
Glycol Ether DPM	34590-94-8	X	X	X
Carbon Dioxide	124-38-9	X	X	X

California Prop. 65

Chemical name	CAS-No	California Prop. 65
Tetrachloroethylene	127-18-4	Carcinogen
Glycol Ether DPM	34590-94-8	-
Carbon Dioxide	124-38-9	-

U.S. Federal Regulations**US EPA SARA 313**

Chemical name	CAS-No	CERCLA/SARA Hazardous Substances RQ	SARA 313 - Threshold Values
Tetrachloroethylene	127-18-4	100 lb 45.4 kg 1 lb 0.454 kg	0.1 %
Glycol Ether DPM	34590-94-8	-	1.0 %
Carbon Dioxide	124-38-9	-	-

US EPA SARA 311/312 hazardous categorization

Acute Health Hazard
Chronic Health Hazard
Sudden Release of Pressure Hazard

International inventories

All components of this product are listed on the following inventories: U.S.A. (TSCA 8(b)),

Canada (DSL/NDSL) or are exempt.

Chemical name	DSL/NDSL	Inventory - United States - Section 8(b) Inventory (TSCA)	U.S. - TSCA (Toxic Substances Control Act) - Section 12(b) - Export Notification
Tetrachloroethylene	X	X	-
Glycol Ether DPM	X	X	-
Carbon Dioxide	X	X	-

Legend X - Listed

16. OTHER INFORMATION

NFPA

Health 2
 Flammability 1
 Instability 0

HMIS

Health 2
 Flammability 1
 Physical hazards 0
 Personal protection B

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 Organization)
 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)

Disclaimer

The information accumulated herein is believed to be accurate, but is not warranted to be, whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and

suitable to their circumstances.

End of Safety Data Sheet