

Issue date 25-Jul-2018

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Revision Number 1

1. IDENTIFICATION

Product identification

Product identifier Drummond™ Engage High Tech Lubricant with PTFE
Other means of identification 1412525
Recommended use Lubricant
Restrictions on use For industrial use only

Supplier

Corporate Headquarters:
Drummond™, A Lawson Brand
Lawson Products, Inc.
8870 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).

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

Precautionary statements

General
P101 - If medical advice is needed, have product container or label at hand
P102 - Keep out of reach of children

Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If easy to do, remove contact lenses. Seek medical attention if irritation persists.
Most important symptoms (acute)	Direct contact with the eyes may cause temporary irritation.
Most important symptoms (over-exposure)	Not available.
Indication of any immediate medical attention and special treatment needed	Treat symptomatically and supportively.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Dry Chemical, Carbon Dioxide, Foam or Water Fog.
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.
Specific hazards	Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.
Special protective equipment for fire-fighters	Wear self-contained breathing apparatus and protective suit. Move containers from fire area if you can do it without risk. Containers should be cooled with water to prevent vapor pressure build up.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Evacuate area of unprotected and unnecessary personnel. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Wear appropriate protective equipment and clothing during cleanup. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can without risk. Refer to attached SDS and/or instructions for use. Move the cylinder to a safe and open area if the leak is irreparable. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

7. HANDLING AND STORAGE

Precautions for safe handling	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. All equipment used when handling the product must be grounded. Use spark-proof tools and explosion proof equipment. Do not spray on a naked flame or any other incandescent material. Use only outdoors or in a well-ventilated area. Ensure adequate ventilation. Avoid breathing dust/fume/gas/mist/vapors/spray. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not re-use empty containers. Handle in accordance with good industrial hygiene and safety practice.
Conditions for safe storage, including any incompatibilities	Beware: Aerosol is pressurized. Protect from sunlight. Store at temperatures not exceeding 50 °C/ 122 °F. Do not puncture, incinerate, or crush. Keep away from open flames, hot surfaces and sources of ignition. Store in a well-ventilated place. Do not store or use near incompatible materials. See section 10 for incompatible materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical name	OSHA PEL (TWA)	ACGIH OEL (TWA)	NIOSH - TWA
Petroleum distillates, hydrotreated heavy naphthenic	-	-	-
Propane	1000 ppm TWA 1800 mg/m ³ TWA	-	1000 ppm TWA 1800 mg/m ³ TWA
Petroleum distillates, solvent-refined light paraffinic	-	-	-
Petroleum distillates, solvent-refined heavy paraffinic	-	-	-
n-Propyl acetate	200 ppm TWA 840 mg/m ³ TWA	250 ppm STEL 200 ppm TWA	250 ppm STEL 1050 mg/m ³ STEL 200 ppm TWA 840 mg/m ³ TWA
n-Butyl acetate	150 ppm TWA 710 mg/m ³ TWA	150 ppm STEL 50 ppm TWA	200 ppm STEL 950 mg/m ³ STEL 150 ppm TWA 710 mg/m ³ TWA
Isobutyl acetate	150 ppm TWA 700 mg/m ³ TWA	150 ppm STEL 50 ppm TWA	150 ppm TWA 700 mg/m ³ TWA
Butane	-	1000 ppm STEL	800 ppm TWA 1900 mg/m ³ TWA
2-Ethylhexyl Acetate	-	-	-

Appropriate engineering controls

Use explosion-proof electrical/ventilating/lighting/equipment.

Individual protection measures, such as personal protective equipment

Eye protection

Safety glasses with side-shields. Goggles.

Skin and body protection

Chemical resistant gloves. Nitrile gloves are recommended. Wear suitable protective clothing. Wear appropriate thermal protective clothing when necessary.

Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits, where applicable, or to an acceptable level, in countries where exposure limits have not been established, an approved respirator must be worn.

Hygiene measures

Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Routinely wash work clothing and protective equipment to remove contaminants.

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
Petroleum distillates, hydrotreated heavy naphthenic	-	-	-	-	-	-	-	-	-	-
Propane	1000 ppm	1000 ppm	-	-	-	-	-	-	1000 ppm	1250 ppm

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
	TWA	TWA 1000 ppm TWA							TWAEV 1800 mg/m ³ TWAEV	STEL 1000 ppm TWA 1000 ppm TWA
Petroleum distillates, solvent-refined light paraffinic	-	-	-	-	-	-	-	-	-	-
Petroleum distillates, solvent-refined heavy paraffinic	-	-	-	-	-	-	-	-	-	-
n-Propyl acetate	250 ppm STEL 1040 mg/m ³ STEL 200 ppm TWA 835 mg/m ³ TWA	250 ppm STEL 200 ppm TWA	100 ppm TWA 150 ppm STEL	250 ppm STEL 1040 mg/m ³ STEL 200 ppm TWA 835 mg/m ³ TWA	150 ppm STEL 100 ppm TWA	150 ppm STEL 100 ppm TWA	250 ppm STEL 200 ppm TWA	150 ppm STEL 100 ppm TWA	250 ppm STEV 1040 mg/m ³ STEV 200 ppm TWAEV 835 mg/m ³ TWAEV	250 ppm STEL 200 ppm TWA
n-Butyl acetate	200 ppm STEL 950 mg/m ³ STEL 150 ppm TWA 713 mg/m ³ TWA	20 ppm TWA	50 ppm TWA 150 ppm STEL	200 ppm STEL 950 mg/m ³ STEL 150 ppm TWA 713 mg/m ³ TWA	150 ppm STEL 50 ppm TWA 50 ppm TWA	150 ppm STEL 50 ppm TWA	200 ppm STEL 150 ppm TWA	150 ppm STEL 50 ppm TWA 50 ppm TWA	200 ppm STEV 950 mg/m ³ STEV 150 ppm TWAEV 713 mg/m ³ TWAEV	200 ppm STEL 150 ppm TWA
Isobutyl acetate	150 ppm TWA 713 mg/m ³ TWA	150 ppm TWA	50 ppm TWA 150 ppm STEL	150 ppm TWA 713 mg/m ³ TWA	150 ppm STEL 50 ppm TWA 50 ppm TWA	150 ppm STEL 50 ppm TWA	150 ppm TWA	150 ppm STEL 50 ppm TWA 50 ppm TWA	150 ppm TWAEV 713 mg/m ³ TWAEV	188 ppm STEL 150 ppm TWA
Butane	1000 ppm TWA	750 ppm STEL 600 ppm TWA 1000 ppm TWA	1000 ppm STEL	800 ppm TWA 1900 mg/m ³ TWA	1000 ppm STEL	1000 ppm STEL	1000 ppm STEL	1000 ppm STEL	800 ppm TWAEV 1900 mg/m ³ TWAEV	1250 ppm STEL 1000 ppm TWA 1000 ppm TWA
2-Ethylhexyl Acetate	-	-	-	-	-	-	-	-	-	-

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Gas Aerosol containing a liquefied gas
Color	No information available
Odor	Not available
Odor threshold	Not available
pH	No data available
Melting point/range °C	No data available
Melting point/range °F	No data available

Boiling point/range °C	Not available
Boiling point/range °F	Not available
Flash point °C	-104.44
Flash point °F	-156
Flash point method used	based on propellant
Evaporation rate	No data available
Flammability (Solid, Gas)	No information available
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapor pressure	54 PSI @ 70 F estimated
Vapor density	No data available
Relative density	0.826
Solubility	No information available
Partition coefficient (n-octanol/water)	No data available
Autoignition temperature °C	Not available
Autoignition temperature °F	Not available
Decomposition temperature °C	No data available
Decomposition temperature °F	No data available
Viscosity	No data available

10. STABILITY AND REACTIVITY

Reactivity	The product is stable and not reactive under normal conditions of use, storage and transport.
Chemical stability	This material is considered stable.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Incompatible materials. Avoid heat, sparks, and other sources of ignition. Fire or intense heat may cause violent rupture of packages.
Incompatible materials	Not available.
Hazardous decomposition products	None under normal use.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure Eyes.

Symptoms Direct contact with the eyes may cause temporary irritation.

Delayed and immediate effects as well as chronic effects from short and long-term exposure Direct contact with eyes may cause temporary irritation. Prolonged skin contact may cause temporary irritation.

Numerical measures of toxicity

Chemical name	Inhalation LC50:	Dermal LD50:	Oral LD50:
Petroleum distillates, hydrotreated heavy naphthenic	-	> 2000 mg/kg (Rabbit)	> 5000 mg/kg (Rat)
Propane	> 800000 ppm (Rat) 15 min	-	-
Petroleum distillates, solvent-refined light paraffinic	= 2.18 mg/L (Rat) 4 h	> 5 g/kg (Rabbit)	> 15 g/kg (Rat)
Petroleum distillates, solvent-refined heavy paraffinic	> 5530 mg/m ³ (Rat) 4 h	> 2000 mg/kg (Rabbit) Dermal LD50 Rabbit >2000 mg/kg (Source: IUCLID)	> 5000 mg/kg (Rat) Oral LD50 Rat >5000 mg/kg (Source: JAPAN_GHS)
n-Propyl acetate	-	> 17756 mg/kg (Rabbit)	= 8700 mg/kg (Rat)
n-Butyl acetate	= 390 ppm (Rat) 4 h	> 17600 mg/kg (Rabbit)	= 10768 mg/kg (Rat)
Isobutyl acetate	-	> 17400 mg/kg (Rabbit)	= 15400 mg/kg (Rat)
Butane	= 658 g/m ³ (Rat) 4 h	-	-
2-Ethylhexyl Acetate	-	-	= 3 g/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
Petroleum distillates, hydrotreated heavy naphthenic	A2	Group 1	Listed	Known
Propane	-	-	-	-
Petroleum distillates, solvent-refined light paraffinic	A2	Group 1	Listed	Known
Petroleum distillates, solvent-refined heavy paraffinic	A2	Group 1	Listed	Known
n-Propyl acetate	-	-	-	-
n-Butyl acetate	-	-	-	-
Isobutyl acetate	-	-	-	-
Butane	-	-	-	-
2-Ethylhexyl Acetate	-	-	-	-

Canadian Province

carcinogenicity limits

Chemical name	Alberta - Carcinogen	British Columbia - Carcinogen	Manitoba - Carcinogen	New Brunswick - Carcinogen	Nova Scotia - Carcinogen	Quebec - Carcinogen
Petroleum distillates, hydrotreated heavy naphthenic	-	-	ACGIH A2	-	ACGIH A2	-
Propane	-	-	-	-	-	-
Petroleum distillates, solvent-refined light paraffinic	-	-	ACGIH A2	-	ACGIH A2	-
Petroleum distillates, solvent-refined heavy paraffinic	-	-	ACGIH A2	-	ACGIH A2	-
n-Propyl acetate	-	-	-	-	-	-
n-Butyl acetate	-	-	-	ACGIH A4	-	-
Isobutyl acetate	-	-	-	-	-	-
Butane	-	-	-	-	-	-
2-Ethylhexyl Acetate	-	-	-	-	-	-

12. ECOLOGICAL INFORMATION

Ecotoxicity

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.

Chemical name	Algae/aquatic plants	Fish
Petroleum distillates, hydrotreated heavy naphthenic	-	5000: 96 h Oncorhynchus mykiss mg/L LC50
Propane	-	-
Petroleum distillates, solvent-refined light paraffinic	-	5000: 96 h Oncorhynchus mykiss mg/L LC50
Petroleum distillates, solvent-refined heavy paraffinic	-	5000: 96 h Oncorhynchus mykiss mg/L LC50
n-Propyl acetate	-	56 - 64: 96 h Pimephales promelas mg/L LC50 static 56 - 64: 96 h Pimephales promelas mg/L LC50 flow-through
n-Butyl acetate	674.7: 72 h Desmodesmus subspicatus mg/L EC50	100: 96 h Lepomis macrochirus mg/L LC50 static 17 - 19: 96 h Pimephales promelas mg/L LC50 flow-through 62: 96 h Leuciscus idus mg/L LC50 static
Isobutyl acetate	-	101: 48 h Leuciscus idus melanotus mg/L LC50 static 101 - 123: 48 h Leuciscus idus melanotus mg/L LC50 flow-through
Butane	-	-
2-Ethylhexyl Acetate	-	-

Persistence and degradability No data available.

Bioaccumulation

Chemical name	CAS-No	Partition coefficient (log Kow)
Petroleum distillates, hydrotreated heavy naphthenic 64742-52-5	64742-52-5	-
Propane 74-98-6	74-98-6	2.3 <=2.8
Petroleum distillates, solvent-refined light paraffinic 64741-89-5	64741-89-5	-
Petroleum distillates, solvent-refined heavy paraffinic 64741-88-4	64741-88-4	-
n-Propyl acetate 109-60-4	109-60-4	-
n-Butyl acetate 123-86-4	123-86-4	1.81 23 °C
Isobutyl acetate 110-19-0	110-19-0	1.72
Butane 106-97-8	106-97-8	2.89 <=2.8
2-Ethylhexyl Acetate 103-09-3	103-09-3	-

Mobility in soil Not available.

Other adverse effects Not available

13. DISPOSAL CONSIDERATIONS

Disposal information Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of all product, residues and clean-up materials in accordance with local, state, and federal regulations. This material and its containers must be disposed of in a safe way. Empty containers or liners may retain some product residues.

Contaminated packaging Dispose of in accordance with local regulations. Since emptied containers may retain product residue, follow label warnings even after container is emptied. This material and its containers must be disposed of in a safe way.

14. TRANSPORTATION INFORMATION

Shipping Descriptions

DOT

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

TDG

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

IATA

ID-No UN1950
Proper shipping name Aerosols, flammable
Hazard Class(es) 2.1

Special Provisions LTD QTY

IMDG/IMO

ID-No UN1950
 Proper shipping name Aerosols
 Hazard Class(es) 2.1
 EmS No F-D, S-U
 Special Provisions LTD QTY

Marine Pollutants

Chemical name	CAS-No	USDOT Marine Pollutant	Canada TDG Marine Pollutant	IMDG Marine Pollutant
Petroleum distillates, hydrotreated heavy naphthenic	64742-52-5	-	-	-
Propane	74-98-6	-	-	-
Petroleum distillates, solvent-refined light paraffinic	64741-89-5	-	-	-
Petroleum distillates, solvent-refined heavy paraffinic	64741-88-4	-	-	-
n-Propyl acetate	109-60-4	-	-	-
n-Butyl acetate	123-86-4	-	-	-
Isobutyl acetate	110-19-0	-	-	-
Butane	106-97-8	-	-	-
2-Ethylhexyl Acetate	103-09-3	-	-	-

Special Precautions

Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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
Petroleum distillates, hydrotreated heavy naphthenic	64742-52-5	-	X	-
Propane	74-98-6	X	X	X
Petroleum distillates, solvent-refined light paraffinic	64741-89-5	X	X	-
Petroleum distillates, solvent-refined heavy paraffinic	64741-88-4	-	X	-
n-Propyl acetate	109-60-4	X	X	X
n-Butyl acetate	123-86-4	X	X	X
Isobutyl acetate	110-19-0	X	X	X
Butane	106-97-8	X	X	X

Chemical name	CAS-No	Massachusetts - RTK	New Jersey - RTK	Pennsylvania - RTK
2-Ethylhexyl Acetate	103-09-3	X	-	X

California Prop. 65

Chemical name	CAS-No	California Prop. 65
Petroleum distillates, hydrotreated heavy naphthenic	64742-52-5	-
Propane	74-98-6	-
Petroleum distillates, solvent-refined light paraffinic	64741-89-5	-
Petroleum distillates, solvent-refined heavy paraffinic	64741-88-4	-
n-Propyl acetate	109-60-4	-
n-Butyl acetate	123-86-4	-
Isobutyl acetate	110-19-0	-
Butane	106-97-8	-
2-Ethylhexyl Acetate	103-09-3	-

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. Federal Regulations

US EPA SARA 313

Chemical name	CAS-No	CERCLA/SARA Hazardous Substances RQ	SARA 313 - Threshold Values
Petroleum distillates, hydrotreated heavy naphthenic	64742-52-5	-	-
Propane	74-98-6	-	-
Petroleum distillates, solvent-refined light paraffinic	64741-89-5	-	-
Petroleum distillates, solvent-refined heavy paraffinic	64741-88-4	-	-
n-Propyl acetate	109-60-4	-	-
n-Butyl acetate	123-86-4	5000 lb 2270 kg	-
Isobutyl acetate	110-19-0	5000 lb 2270 kg	-
Butane	106-97-8	-	-
2-Ethylhexyl Acetate	103-09-3	-	-

US EPA SARA 311/312 hazardous categorization

Sudden Release of Pressure Hazard
Fire Hazard
Acute Health Hazard
Chronic Health 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

Chemical name	DSL/NDSL	Inventory - United States - Section 8(b) Inventory (TSCA)	U.S. - TSCA (Toxic Substances Control Act) - Section 12(b) - Export Notification
Petroleum distillates, hydrotreated heavy naphthenic	X	X	-
Propane	X	X	-
Petroleum distillates, solvent-refined light paraffinic	X	X	-
Petroleum distillates, solvent-refined heavy paraffinic	X	X	-
n-Propyl acetate	X	X	-
n-Butyl acetate	X	X	-
Isobutyl acetate	X	X	-
Butane	X	X	-
2-Ethylhexyl Acetate	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 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