

SAFETY DATA SHEET

1. Identification

Product number DL2881K12
Product identifier Hi-Tech Lube Engage
Company information Lawson Products, Inc.
877 W. Bryn Mawr Ave.
Chicago, IL 60631 United States
Company phone 773-304-5050
Emergency telephone US 888-426-4851

Version # 01
Recommended use LUBRICANT
Recommended restrictions None known.

2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Not classified.
Environmental hazards Not classified.
OSHA defined hazards Not classified.

Label elements

Hazard symbol None.
Signal word None.
Hazard statement The mixture does not meet the criteria for classification.
Precautionary statement
Prevention Observe good industrial hygiene practices.
Response Wash hands after handling.
Storage Store away from incompatible materials.
Disposal Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise classified (HNOC) None known.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Distillates (petroleum), hydrotreated heavy naphthenic		64742-52-5	60 - 80
Heavy Paraffinic Petroleum Distillates		64741-88-4	2.5 - 10
Isobutyl Acetate		110-19-0	2.5 - 10
Light Paraffinic Petroleum Distillates		64741-89-5	2.5 - 10
n-Butyl Acetate		123-86-4	2.5 - 10
Propyl Acetate		109-60-4	2.5 - 10
Other components below reportable levels			2.5 - 10

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling	Avoid prolonged exposure. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Isobutyl Acetate (CAS 110-19-0)	PEL	700 mg/m ³
n-Butyl Acetate (CAS 123-86-4)	PEL	150 ppm 710 mg/m ³
Propyl Acetate (CAS 109-60-4)	PEL	150 ppm 840 mg/m ³

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
		200 ppm

US. ACGIH Threshold Limit Values

Components	Type	Value
Isobutyl Acetate (CAS 110-19-0)	TWA	150 ppm
n-Butyl Acetate (CAS 123-86-4)	STEL	200 ppm
Propyl Acetate (CAS 109-60-4)	TWA	150 ppm
	STEL	250 ppm
	TWA	200 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Isobutyl Acetate (CAS 110-19-0)	TWA	700 mg/m ³
		150 ppm
n-Butyl Acetate (CAS 123-86-4)	STEL	950 mg/m ³
		200 ppm
Propyl Acetate (CAS 109-60-4)	TWA	710 mg/m ³
		150 ppm
	STEL	1050 mg/m ³
	TWA	250 ppm
		840 mg/m ³
		200 ppm

Biological limit values

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

Appropriate engineering controls

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.

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

Wear safety glasses with side shields (or goggles).

Hand protection

Wear appropriate chemical resistant gloves.

Skin protection**Other**

Wear suitable protective clothing.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties**Appearance****Physical state**

Liquid.

Form

Liquid.

Color

Not available.

Odor

Not available.

Odor threshold

Not available.

pH

Not available.

Melting point/freezing point

Not available.

Initial boiling point and boiling range	214.7 °F (101.5 °C) estimated
Flash point	364.8 °F (184.9 °C) estimated
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	3.98 psig @70F estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	654.4 °F (345.78 °C) estimated
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Specific gravity	0.145 estimated

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Nitrates.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Ingestion	Expected to be a low ingestion hazard.
Inhalation	Prolonged inhalation may be harmful.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity

Product	Species	Test Results
55 GAL DRUM OF ENGAGE EXOTIC LUBE (CAS Mixture)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	1250.7695 mg/kg estimated 400.0001 ml/kg, 24 Hours estimated

Product	Species	Test Results
	Rat	2530.6846 mg/kg estimated
<i>Inhalation</i>		
LC50	Rat	27175 ppm, 4 Hours estimated 750 mg/l, 6 Hours estimated 17.9803 mg/l, 4 Hours estimated 2.583 mg/l/4h estimated
<i>Oral</i>		
LD50	Mouse	53333.332 mg/kg estimated
	Rat	5894.1357 mg/kg estimated 305 ml/kg estimated
Components	Species	Test Results
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg > 2000 mg/kg, 24 Hours
<i>Oral</i>		
LD50	Rat	5000 mg/kg
Heavy Paraffinic Petroleum Distillates (CAS 64741-88-4)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg > 2000 mg/kg, 24 Hours
	Rat	2000 mg/kg
<i>Inhalation</i>		
LC50	Rat	2 mg/l/4h
<i>Oral</i>		
LD50	Rat	5000 mg/kg
Isobutyl Acetate (CAS 110-19-0)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 17400 mg/kg, 24 Hours
	Rat	5000 mg/kg
<i>Inhalation</i>		
LC50	Rat	> 30 mg/l, 6 Hours > 23.4 mg/l, 4 Hours
<i>Oral</i>		
LD50	Rat	13413 mg/kg
Light Paraffinic Petroleum Distillates (CAS 64741-89-5)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg > 2000 mg/kg, 24 Hours
	Rat	2000 mg/kg
<i>Inhalation</i>		
LC50	Rat	2 mg/l/4h
<i>Oral</i>		
LD50	Rat	5000 mg/kg

Components	Species	Test Results
n-Butyl Acetate (CAS 123-86-4)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 16 ml/kg, 24 Hours
<i>Inhalation</i>		
LC50	Rat	1087 ppm, 4 Hours 0.74 mg/l, 4 Hours
<i>Oral</i>		
LD50	Rat	14130 mg/kg 12.2 ml/kg

Propyl Acetate (CAS 109-60-4)

Acute

Dermal

LD50

Rabbit

> 17800 mg/kg, 24 Hours

Inhalation

LC50

Rat

32 mg/l, 4 Hours

Oral

LD50

Rat

8700 mg/kg

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation

Not applicable.

Serious eye damage/eye irritation

Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization

Not available.

Skin sensitization

This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure

Not classified.

Specific target organ toxicity - repeated exposure

Not classified.

Aspiration hazard

Not available.

Chronic effects

Prolonged inhalation may be harmful.

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.

Product	Species	Test Results
55 GAL DRUM OF ENGAGE EXOTIC LUBE (CAS Mixture)		
Aquatic		
Algae	IC50	Algae
Crustacea	EC50	Daphnia
Fish	LC50	Fish
		16867.5 mg/L, 72 Hours estimated
		1291.4891 mg/L, 48 Hours estimated
		658.7645 mg/l, 96 hours estimated

Components	Species	Test Results
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)		
Aquatic		
Crustacea	EC50	Daphnia
		1000.0001 mg/L, 48 Hours
Heavy Paraffinic Petroleum Distillates (CAS 64741-88-4)		
Aquatic		
Crustacea	EC50	Daphnia
		1000.0001 mg/L, 48 Hours
Fish	LC50	Fish
		5001, 96 Hours
Isobutyl Acetate (CAS 110-19-0)		
Aquatic		
Fish	LC50	Fish
		100, 96 Hours
Light Paraffinic Petroleum Distillates (CAS 64741-89-5)		
Aquatic		
Crustacea	EC50	Daphnia
		1000.0001 mg/L, 48 Hours
Fish	LC50	Fish
		5001, 96 Hours
n-Butyl Acetate (CAS 123-86-4)		
Aquatic		
Algae	IC50	Algae
		674.7 mg/L, 72 Hours
Fish	LC50	Fathead minnow (<i>Pimephales promelas</i>)
		17 - 19 mg/l, 96 hours
Propyl Acetate (CAS 109-60-4)		
Aquatic		
Fish	LC50	Fathead minnow (<i>Pimephales promelas</i>)
		56 - 64 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Partition coefficient n-octanol / water (log Kow)

Isobutyl Acetate	1.78
n-Butyl Acetate	1.78
Propyl Acetate	1.23

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products 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).

Contaminated packaging 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.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code This substance/mixture is not intended to be transported in bulk.

15. Regulatory information

US federal regulations All components are on the U.S. EPA TSCA Inventory List.
This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Isobutyl Acetate (CAS 110-19-0) Listed.
n-Butyl Acetate (CAS 123-86-4) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Chemical name	CAS number	Reportable quantity	Threshold planning quantity	Threshold planning quantity, lower value	Threshold planning quantity, upper value
Hydrogen Fluoride	7664-39-3	100	100 lbs		
Hydrogen sulfide	7783-06-4	100	500 lbs		

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

US state regulations

US. Massachusetts RTK - Substance List

Isobutyl Acetate (CAS 110-19-0)
Light Paraffinic Petroleum Distillates (CAS 64741-89-5)
n-Butyl Acetate (CAS 123-86-4)
Propyl Acetate (CAS 109-60-4)

US. New Jersey Worker and Community Right-to-Know Act

Isobutyl Acetate (CAS 110-19-0)
n-Butyl Acetate (CAS 123-86-4)
Propyl Acetate (CAS 109-60-4)

US. Pennsylvania Worker and Community Right-to-Know Law

Isobutyl Acetate (CAS 110-19-0)
n-Butyl Acetate (CAS 123-86-4)
Propyl Acetate (CAS 109-60-4)

US. Rhode Island RTK

Isobutyl Acetate (CAS 110-19-0)
n-Butyl Acetate (CAS 123-86-4)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
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)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 08-27-2014

Version # 01

Disclaimer

Sprayway cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. 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.