



SAFETY DATA SHEET

This safety data sheet complies with the requirements of: (CLP) Regulation (EC 1272/2008)

Revision Date 18-Dec-2018

Version 5

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Code 81981
Product Name WHITE LITHIUM GREASE 10.75OZ AE

Contains DISTILLATES (PETROLEUM), HYDROTREATED LIGHT, NAPHTHA (PETROLEUM), HYDROTREATED LIGHT, HEPTANE

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Flammable Aerosol Lubricant

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Manufacturer ITW Permatex 6875 Parkland Blvd. Solon, Ohio 44139 USA Telephone: 1-87-Permatex (866) 732-9502	Supplier KRAFFT S.L.U Carreters de Urnieta s/n 14 Andoain, ES 20140
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E-mail address:
mail@permatex.com

1.4. Emergency telephone number

24-hour emergency phone number - 800-255-3924 (00+ 1+ 813-248-0585) ChemTel

SECTION 2: HAZARDS IDENTIFICATION:

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Aspiration toxicity	Category 1 - (H304)
Chronic aquatic toxicity	Category 3 - (H412)
Aerosols	Category 1 - (H222), (H229)

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Full text of R-phrases: see section 16

2.2. Label elements

Contains DISTILLATES (PETROLEUM), HYDROTREATED LIGHT, NAPHTHA (PETROLEUM), HYDROTREATED LIGHT, HEPTANE

**Signal word**

Danger

Statements of hazard

H304 - May be fatal if swallowed and enters airways
 H412 - Harmful to aquatic life with long lasting effects
 H222 - Extremely flammable aerosol
 H229 - Pressurized container: May burst if heated

Precautionary Statements

P273 - Avoid release to the environment
 P210 - Keep away from open flames/hot surfaces. - 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
 P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
 P331 - Do NOT induce vomiting
 P405 - Store locked up
 P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

Other Information

• The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7).

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Chemical Name	EC No	CAS No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
PROPANE	200-827-9	74-98-6	10 - 30	Flam. Gas 1 (H220) Press. Gas	Exempt -
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT	265-149-8	64742-47-8	10 - 30	Asp. Tox. 1 (H304)	01-2119456620-43-XXXX
NAPHTHA (PETROLEUM), HYDROTREATED LIGHT	265-151-9	64742-49-0	5 - 10	Muta. 1B (H340) Carc. 1B (H350) Asp. Tox. 1 (H304)	01-2119475515-33-XXXX
HEPTANE	205-563-8	142-82-5	1 - 5	Skin Irrit. 2 (H315) STOT SE 3 (H336) Asp. Tox. 1 (H304) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Flam. Liq. 2 (H225)	Exempt - Volume
ZINC OXIDE	215-222-5	1314-13-2	0.1 - 1	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	Exempt - Volume
MORPHOLINE	203-815-1	110-91-8	0.1 - 1	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Skin Corr. 1B (H314) Flam. Liq. 3 (H226)	Exempt - Volume

Full text of H- and EUH-phrases: see section 16

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General advice	Get medical advice/attention if you feel unwell.
Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, call a physician.
Skin contact	IF ON SKIN: Wash with soap and water. If symptoms persist, call a physician. Wash contaminated clothing before reuse.
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	IF SWALLOWED: Call a physician or poison control center immediately. Do NOT induce vomiting. Rinse mouth.
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms See section 2 for more information

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂). Foam. Dry chemical.

Unsuitable extinguishing media

No information available

5.2. Special hazards arising from the substance or mixture

Extremely flammable. Heating causes rise in pressure with risk of bursting. Vapors may travel to source of ignition and flash back.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid contact with skin, eyes or clothing. Ensure adequate ventilation, especially in confined areas. Wash thoroughly after handling. Use personal protective equipment as required.

For emergency responders

Use personal protection recommended in Section 8.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Eliminate all ignition sources if safe to do so. Ensure adequate ventilation. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

6.4. Reference to other sections

See section 8 for more information. See section 13 for more information.

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapors or mists. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Use personal protective equipment as required. Take precautionary measures against static discharges. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Contents under pressure. Do not puncture or incinerate cans.

General Hygiene Considerations

Do not eat, drink or smoke when using this product. Take off all contaminated clothing and wash it before reuse. Wash hands and face thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store locked up.

Incompatible materials

Strong oxidizing agents

7.3. Specific end use(s)

Specific use(s)

Lubricant.

Risk Management Methods (RMM)

The information required is contained in this Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Chemical Name	European Union	United Kingdom	France	Spain	Germany
PROPANE 74-98-6	-	-	-	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1800 mg/m ³
HEPTANE 142-82-5	TWA 500 ppm TWA 2085 mg/m ³	TWA: 500 ppm TWA: 2085 mg/m ³ STEL: 1500 ppm STEL: 6255 mg/m ³	TWA: 400 ppm TWA: 1668 mg/m ³ TWA: 1000 mg/m ³ STEL: 500 ppm STEL: 2085 mg/m ³ STEL: 1500 mg/m ³	TWA: 500 ppm TWA: 2085 mg/m ³	TWA: 500 ppm TWA: 2100 mg/m ³
ZINC OXIDE 1314-13-2	-	-	TWA: 5 mg/m ³ TWA: 10 mg/m ³	TWA: 2 mg/m ³ STEL: 10 mg/m ³	-
MORPHOLINE 110-91-8	TWA: 10 ppm TWA: 36 mg/m ³	TWA: 10 ppm TWA: 36 mg/m ³ STEL: 20 ppm STEL: 72 mg/m ³ Sk*	TWA: 10 ppm TWA: 36 mg/m ³ STEL: 20 ppm STEL: 72 mg/m ³	TWA: 10 ppm TWA: 36 mg/m ³ STEL: 20 ppm STEL: 72 mg/m ³	TWA: 10 ppm TWA: 36 mg/m ³ H*

Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
PROPANE 74-98-6	-	TWA: 1000 ppm	-	TWA: 800 ppm TWA: 1500 mg/m ³ STEL: 1100 ppm STEL: 2000 mg/m ³	TWA: 1000 ppm TWA: 1800 mg/m ³
HEPTANE 142-82-5	TWA: 500 ppm TWA: 2085 mg/m ³	TWA: 500 ppm TWA: 2085 mg/m ³ STEL: 500 ppm	TWA: 1200 mg/m ³ STEL: 1600 mg/m ³	TWA: 300 ppm TWA: 1200 mg/m ³ STEL: 500 ppm STEL: 2100 mg/m ³	TWA: 200 ppm TWA: 820 mg/m ³
ZINC OXIDE 1314-13-2	-	TWA: 2 mg/m ³ STEL: 10 mg/m ³	-	TWA: 2 mg/m ³ STEL: 10 mg/m ³	TWA: 4 mg/m ³
MORPHOLINE 110-91-8	TWA: 10 ppm TWA: 36 mg/m ³ STEL: 20 ppm STEL: 72 mg/m ³ pelle*	TWA: 10 ppm TWA: 36 mg/m ³ STEL: 20 ppm STEL: 72 mg/m ³ P*	TWA: 36 mg/m ³ STEL: 72 mg/m ³ H*	TWA: 10 ppm TWA: 36 mg/m ³ STEL: 20 ppm STEL: 72 mg/m ³ iho*	TWA: 10 ppm TWA: 36 mg/m ³ H*
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
PROPANE 74-98-6	TWA: 1000 ppm TWA: 1800 mg/m ³ STEL 2000 ppm STEL 3600 mg/m ³	TWA: 1000 ppm TWA: 1800 mg/m ³ STEL: 4000 ppm STEL: 7200 mg/m ³	TWA: 1800 mg/m ³	TWA: 500 ppm TWA: 900 mg/m ³ TWA: 40 ppm TWA: 275 mg/m ³ STEL: 500 ppm STEL: 900 mg/m ³ STEL: 40 ppm STEL: 275 mg/m ³	TWA: 1000 ppm STEL: 3000 ppm
HEPTANE 142-82-5	TWA: 500 ppm TWA: 2000 mg/m ³ STEL 2000 ppm STEL 8000 mg/m ³	TWA: 400 ppm TWA: 1600 mg/m ³ STEL: 400 ppm STEL: 1600 mg/m ³	STEL: 2000 mg/m ³ TWA: 1200 mg/m ³	TWA: 200 ppm TWA: 800 mg/m ³ TWA: 40 ppm TWA: 275 mg/m ³ STEL: 200 ppm STEL: 800 mg/m ³ STEL: 40 ppm STEL: 275 mg/m ³	TWA: 500 ppm TWA: 2085 mg/m ³ STEL: 1500 ppm STEL: 6255 mg/m ³
ZINC OXIDE 1314-13-2	TWA: 5 mg/m ³	TWA: 3 mg/m ³ STEL: 3 mg/m ³	STEL: 10 mg/m ³ TWA: 5 mg/m ³	TWA: 5 mg/m ³ STEL: 10 mg/m ³	TWA: 2 mg/m ³ STEL: 10 mg/m ³
MORPHOLINE 110-91-8	TWA: 10 ppm TWA: 36 mg/m ³ STEL 10 ppm STEL 36 mg/m ³ Ceiling 10 ppm Ceiling 36 mg/m ³ H*	TWA: 10 ppm TWA: 36 mg/m ³ STEL: 20 ppm STEL: 72 mg/m ³ H*	STEL: 72 mg/m ³ TWA: 36 mg/m ³	TWA: 10 ppm TWA: 36 mg/m ³ STEL: 10 ppm STEL: 36 mg/m ³ H*	TWA: 10 ppm TWA: 36 mg/m ³ STEL: 20 ppm STEL: 72 mg/m ³ Sk*

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering Controls Use exhaust ventilation to keep airborne concentrations below exposure limits.

Personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin and body protection

Suitable protective clothing. Gloves made of plastic or rubber.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. Use NIOSH-approved air-purifying respirator with organic vapor cartridge or canister, as appropriate.

Environmental exposure controls Local authorities should be advised if significant spillages cannot be contained.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state Liquid, Flammable Aerosol

Appearance White

Odor Solvent
Odor threshold No information available

<u>Property</u>	<u>Values</u>
pH	No information available
Melting point / freezing point	No information available
Boiling point / boiling range	74 °C / 166 °F
Flash point	-104 °C / -156 °F
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Flammability Limit in Air	
Upper flammability limit:	8.3%
Lower flammability limit:	1.4%
Vapor pressure	80 psig @70°F
Vapor density	No information available
Relative density	0.91
Water solubility	No information available
Solubility(ies)	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Kinematic viscosity	No information available
Dynamic viscosity	No information available
Explosive properties	No information available
Oxidizing properties	No information available

Remarks • Method

Gives a flame projection at full valve opening or flashback at any degree of valve opening

9.2. Other information

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	24.5%
Density	No information available
Bulk density	No information available

Section 10: STABILITY AND REACTIVITY**10.1. Reactivity**

Not applicable

10.2. Chemical stability

Stable under normal conditions.

Explosion data

Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	None.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Heat, flames and sparks.

10.5. Incompatible materials

Strong oxidizing agents

10.6. Hazardous decomposition products

Carbon oxides

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Product Information

Inhalation	May cause irritation of respiratory tract.
Eye contact	Irritating to eyes. May cause redness and tearing of the eyes.
Skin contact	May cause skin irritation and/or dermatitis. Prolonged contact may cause redness and irritation.
Ingestion	Potential for aspiration if swallowed. Aspiration may cause pulmonary edema and pneumonitis.

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	5,232.00 mg/kg
ATEmix (dermal)	2,405.00 mg/kg mg/l

Unknown acute toxicity

- 99 % of the mixture consists of ingredient(s) of unknown toxicity.
- 77 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
- 75.3 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
- 84 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
- 99 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).
- 99 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
PROPANE			= 658 mg/L (Rat) 4 h
HEPTANE		= 3000 mg/kg (Rabbit)	= 103 g/m ³ (Rat) 4 h
MORPHOLINE	= 1050 mg/kg (Rat)	310 - 810 mg/kg (Rabbit)	= 8000 ppm (Rat) 8 h

Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	No information available.
Sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.

Chemical Name	European Union
NAPHTHA (PETROLEUM), HYDROTREATED LIGHT	Carc. 1B

Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Target Organ Effects	Central nervous system, Respiratory system, Skin.
Aspiration hazard:	No information available.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity

Harmful to aquatic life with long lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Crustacea
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT	-	45: 96 h Pimephales promelas mg/L LC50 flow-through 2.4: 96 h Oncorhynchus mykiss mg/L LC50 static 2.2: 96 h Lepomis macrochirus mg/L LC50 static	4720: 96 h Den-dronereides heteropoda mg/L LC50
NAPHTHA (PETROLEUM), HYDROTREATED LIGHT	-	-	2.6: 96 h Chaetogammarus marinus mg/L LC50
HEPTANE	-	375.0: 96 h Cichlid fish mg/L LC50	10: 24 h Daphnia magna mg/L EC50
MORPHOLINE	28: 96 h Pseudokirchneriella subcapitata mg/L EC50 static	1000: 96 h Brachydanio rerio mg/L LC50 static 350: 96 h Lepomis macrochirus mg/L LC50 static 375 - 460: 96 h Oncorhynchus mykiss mg/L LC50	100: 24 h Daphnia magna mg/L EC50

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

Chemical Name	Partition coefficient
PROPANE	2.3
HEPTANE	4.66
MORPHOLINE	-2.55

12.4. Mobility in soil**Mobility in soil**

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

No information available

Endocrine Disruptor Information

None known.

Section 13: DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods****Waste from residues/unused products**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging

Do not reuse container.

Waste codes / waste designations according to EWC / AVV

No Data Available

Other Information

Waste codes should be assigned by the user based on the application for which the product was used.

Section 14: TRANSPORT INFORMATION

IMDG

14.1 UN/ID No	1950
14.2 Proper shipping name:	Aerosols, Limited Quantity (LQ)
14.3 Hazard Class	2.1
14.4 Packing Group	None
14.5 Environmental hazard	Not applicable
14.6 Special Provisions	No information available
14.7 EmS-No	F-D, S-U

RID

14.1 UN/ID No	1950
14.2 Proper shipping name:	Aerosols, Limited Quantity (LQ)
14.3 Hazard Class	2.1
14.4 Packing Group	None
14.5 Environmental hazard	Not applicable
14.6 Special Provisions	No information available
14.7 Classification code	5F

ADR

14.1 UN/ID No	1950
14.2 Proper shipping name:	Aerosols, Limited Quantity (LQ)
14.3 Hazard Class	2.1
14.4 Packing Group	None
14.5 Environmental hazard	Not applicable
14.6 Special Provisions	No information available
14.7 Classification code	5F

IATA

14.1 UN/ID No	ID 8000
14.2 Proper shipping name:	Consumer commodity
14.3 Hazard Class	9
14.4 Packing Group	None
14.5 Environmental hazard	Not applicable
14.6 Special Provisions	No information available
14.7 ERG Code	9L

Section 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Chemical Name	French RG number	Title
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT 64742-47-8	RG 84	-
NAPHTHA (PETROLEUM), HYDROTREATED LIGHT 64742-49-0	RG 84	-
HEPTANE 142-82-5	RG 84	-

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical Name	Restricted substance per REACH Annex	Substance subject to authorization per
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	XVII	REACH Annex XIV
NAPHTHA (PETROLEUM), HYDROTREATED LIGHT - 64742-49-0	Use restricted. See item 28. Use restricted. See item 29.	

Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Not determined
IECSC	Not determined
KECL	Not determined
PICCS	Complies
AICS	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

No information available

Section 16: OTHER INFORMATION**Key or legend to abbreviations and acronyms used in the safety data sheet****Full text of H-Statements referred to under section 3**

H302 - Harmful if swallowed

H312 - Harmful in contact with skin

H332 - Harmful if inhaled

H314 - Causes severe skin burns and eye damage

H226 - Flammable liquid and vapor

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H315 - Causes skin irritation

H336 - May cause drowsiness or dizziness

H304 - May be fatal if swallowed and enters airways

H225 - Highly flammable liquid and vapor

H340 - May cause genetic defects if inhaled

H350 - May cause cancer if swallowed

H220 - Extremely flammable gas

Legend

SVHC: Substances of Very High Concern for Authorization:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA Ceiling	TWA (time-weighted average) Maximum limit value	STEL *	STEL (Short Term Exposure Limit) Skin designation
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Revision Date 18-Dec-2018

Revision Note Not applicable.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

End of Safety Data Sheet