



SAFETY DATA SHEET

This safety data sheet complies with the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision Date 06-Aug-2015

Version 1

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), SOLVENT-REFINED HEAVY NAPHTHENIC, DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC, DISTILLATES (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

Importer

ITW Permatex
10 Columbus Blvd.
Hartford, CT 06106 USA
Telephone: 1-87-Permatex
(877) 376-2839

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)
Acute toxicity - Dermal	Category 4 - (H312)
Chronic aquatic toxicity	Category 2 - (H411)
Aerosols	Category 1 - (H222)

Classification according to Directive 67/548/EEC or 1999/45/EC

Full text of R-phrases: see section 16

2.2. Label elements

Contains DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC, DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC, DISTILLATES (PETROLEUM), HYDROTREATED LIGHT, HEPTANE

**Signal word**

Danger

Statements of hazard

H304 - May be fatal if swallowed and enters airways

H312 - Harmful in contact with skin

H411 - Toxic to aquatic life with long lasting effects

H222 - Extremely flammable aerosol

H229 - Pressurized container: May burst if heated

Precautionary Statements - EU (§28, 1272/2008)

P321 - Specific treatment (see supplemental instructions on the administration of antidotes on this label)

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor

P331 - Do NOT induce vomiting

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 - Do not pierce or burn, even after use

Other Information

- The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346. This note applies only to certain complex oil derived substances in Annex I

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 substances

Chemical Name	EC No	CAS No	Weight-%	Classification according to Directive 67/548/EEC or 1999/45/EC	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC	265-155-0	64742-52-5	15-40	Carc.Cat.2; R45	Carc. 1B (H350)	No data available
PROPANE	200-827-9	74-98-6	10-30	F+; R12	Flam. Gas 1 (H220) Press. Gas	No data available
DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC	265-097-6	64741-96-4	15-40	Carc.Cat.2; R45	Carc. 1B (H350)	No data available
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT	265-149-8	64742-47-8	10-30	Xn; R65	Asp. Tox. 1 (H304)	No data available
HEPTANE	205-563-8	142-82-5	1-10	F; R11 Xi; R38 N; R50-53 Xn; R65 R67	Skin Irrit. 2 (H315) STOT SE 3 (H336) Asp. Tox. 1 (H304) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Flam. Liq. 2 (H225)	No data available
ZINC OXIDE	215-222-5	1314-13-2	0.5-1.5	N; R50-53	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	No data available

Full text of R-phrases: see section 16

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

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General advice	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
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: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician.

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. Keep product and empty container away from heat and sources of ignition. 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

Ensure adequate ventilation, especially in confined areas. Avoid contact with eyes and skin. Use personal protective equipment as required. Remove all sources of ignition. Contents under pressure. Do not puncture or incinerate cans.

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 thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities**Storage Conditions**

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

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: 1000 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	-
Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
PROPANE	-	TWA: 1000 ppm	-	TWA: 800 ppm	TWA: 1000 ppm

74-98-6				TWA: 1500 mg/m ³ STEL: 1100 ppm STEL: 2000 mg/m ³	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
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: 40 ppm TWA: 275 mg/m ³ STEL: 60 ppm STEL: 343.75 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: 40 ppm TWA: 275 mg/m ³ STEL: 60 ppm STEL: 343.75 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: 0.1 mg/m ³ TWA: 2 mg/m ³ STEL: 4 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

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

Property

Values

Remarks • Method

pH No information available
Melting point / freezing point No information available
Boiling point / boiling range > 38 °C / >100 °F
Flash point < -18 °C / < 0 °F

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

Evaporation rate No information available
Flammability (solid, gas) No information available
Flammability Limit in Air
Upper flammability limit: No information available
Lower flammability limit: No information available
Vapor pressure No information available
Vapor density >1
Relative density 0.905-0.915
Water solubility Negligible
Solubility(ies) No information available

Air = 1

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

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. Temperatures >50 °C / 122 °F.

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	Harmful in contact with skin. Prolonged contact may cause redness and irritation.
Ingestion	Harmful if swallowed. 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)	2,979.00 mg/kg
ATEmix (dermal)	1,521.00 mg/kg
ATEmix (inhalation-dust/mist)	1,373.00 mg/l

Unknown acute toxicity

108.5 % of the mixture consists of ingredient(s) of unknown toxicity.

87.5 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

81 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

88.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

108.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).

101 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

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
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC	Carc. 1B
DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC	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

Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Crustacea
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC	-	5000: 96 h Oncorhynchus mykiss mg/L LC50	1000: 48 h Daphnia magna mg/L EC50
DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC	-	5000: 96 h Oncorhynchus mykiss mg/L LC50	1000: 48 h Daphnia magna mg/L EC50
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT	-	45: 96 h Pimephales promelas mg/L LC50 flow-through 2.2: 96 h Lepomis macrochirus mg/L LC50 static 2.4: 96 h Oncorhynchus mykiss mg/L LC50 static	4720: 96 h Den-dronereides heteropoda mg/L LC50
HEPTANE	-	375.0: 96 h Cichlid fish mg/L LC50	10: 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

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

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 Marine pollutant 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	-
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 XVII	Substance subject to authorization per REACH Annex XIV
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC - 64742-52-5	Use restricted. See item 28.	
DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC - 64741-96-4	Use restricted. See item 28.	

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	Complies
IECSC	Complies
KECL	Complies
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 R-phrases referred to under sections 2 and 3

No information available

Full text of H-Statements referred to under section 3

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
 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	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Revision Date 06-Aug-2015

Revision Note Not applicable.

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

End of Safety Data Sheet