SAFETY DATA SHEET.

Issuing date 28-Apr-2017 Revision Date 25-Apr-2018 Version 8

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name 4505 WHITE LITHIUM GREASE

Recommended use of the chemical

and restrictions on use

Product code 4505

Product Type Extremely Flammable Aerosol

Synonyms None

Supplier's details

Recommended UseLubricant for forklifts used in food, beverage, and pharmaceutical processing areas.

Uses advised against No information available

Manufacturer:

International Epoxies & Sealers

P.O. Box 185

San Antonio, FL 33576 Phone: 1-800-451-7206

Emergency telephone number

Chemical Emergency Phone INFOTRAC: 1-800-535-5053 (NORTH AMERICA)
Number INFOTRAC: 1-352-323-3500 (INTERNATIONAL)

2. HAZARDS IDENTIFICATION

Classification

Skin corrosion/irritation	Category 2
Carcinogenicity	Category 2
Aspiration toxicity	Category 1
Flammable aerosols	Category 1
Gases under pressure	Compressed Gas

GHS Label elements, including precautionary statements

Emergency Overview

DANGER

Hazard Statements

Causes skin irritation

Suspected of causing cancer.

May be fatal if swallowed and enters airways

Extremely Flammable Aerosol

Contains gas under pressure; may explode if heated



Appearance Opaque

Physical state Aerosol

Odor Solvent

Precautionary Statements - Prevention

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wear protective gloves/protective clothing/eye protection/face protection.

Wash face, hands and any exposed skin thoroughly after handling.

Keep away from heat/sparks/open flames/hot surfaces.-No smoking.

Do not spray on an open flame or other ignition source.

Pressurized container: Do not pierce or burn, even after use

Precautionary Statements - Response

If exposed or concerned: Get medical advice/attention.

Specific treatment (see first aid on this label)

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash it before reuse

IF SWALLOWED: Immediately call a POISON CENTER /doctor/physician

Do NOT induce vomiting.

Precautionary Statements - Storage

Store locked up

Protect from sunlight. Store in a well-ventilated place

Do not expose to temperatures exceeding 122°F (50°C)

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None

Other information

0.0000019% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %*
PROPANE/ISOBUTANE/N-BUTANE	68476-86-8	10-20
HEPTANE	64742-49-0	1-10
NAPHTHENIC OIL, SEVERLY HYDROT	64742-52-5	1-10
HYDROCARBON SOLVENT	64742-96-7	1-10
ZINC OXIDE	1314-13-2	<1
TITANIUM DIOXIDE	13463-67-7	<1
AMMONIA	1336-21-6	<0.1

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures for different exposure routes

General advice Avoid contact with eyes, skin, and clothing. Avoid breathing vapors, mist, or gas.

Eye contact Immediately flush with plenty of water for at least 15 minutes. After initial flushing, remove

any contact lenses and continue flushing. If eye irritation persists, consult a doctor.

Skin contact Wash off with soap and plenty of water. Remove and wash contaminated clothing before

re-use. If skin irritation persists, call a physician.

Inhalation Move to fresh air. If not breathing, give artificial respiration. If breathing has stopped,

contact emergency medical services immediately.

Ingestion Call a physician or Poison Control Center immediately. Do NOT induce vomiting. Never

give anything by mouth to an unconscious person. Risk of product entering the lungs on

vomiting after ingestion.

Most important symptoms/effects, acute and delayed

Main Symptoms Causes skin irritation. Suspected of causing cancer. May be fatal if swallowed and enters

airways.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water fog.Dry chemical. Foam.Carbon dioxide (CO2). Cool containers/tanks with water spray. Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol-resistant foam. Water fog. Carbon dioxide (CO2). Cool containers / tanks with water spray. Water fog. Carbon Dioxide (CO2), Foam, Dry Chemical. Cool Tanks/ containers with water spray. Foam.

Unsuitable Extinguishing Media . Cool containers / tanks with water spray. Keep away from sources of ignition - No

smoking. Do not smoke. Do not use a solid water stream as it may scatter and spread fire.

Remove all sources of ignition.

Specific hazards arising from the chemical

Extremely Flammable / Flammable. Keep product and empty container away from heat and sources of ignition. Risk of ignition. In the event of fire and/or explosion do not breathe fumes. In the event of fire, cool tanks with water spray. Flammable. Keep product and empty container away from heat and sources of ignition.

Explosion Data

Sensitivity to Mechanical Impact none. Sensitivity to Static Discharge Yes.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Use shielding to protect fire-fighters from bursting containers. In the event of fire and/or explosion do not breathe fumes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Use with adequate ventiliation to keep the exposure levels below the OELS. Follow safe

handling advice and personal protective equipment recommendations.

Environmental precautions

Vapors can accumulate in low areas. Do not allow material to contaminate ground water **Environmental precautions**

system. Do not flush into surface water or sanitary sewer system. Report spills as required

by local and federal regulations. Should not be released into the environment.

Methods and materials for containment and cleaning up

Methods for Containment Absorb with earth, sand or other non-combustible material and transfer to containers for

later disposal. Prevent further leakage or spillage if safe to do so. Do not allow material to

contaminate ground water system. Prevent product from entering drains.

Methods for cleaning up Soak up with inert absorbent material. Contain liquid and collect with an inter.

> non-combustible material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly. After cleaning, flush away traces with water. Prevent product from entering drains. Take precautionary measures against static discharges.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid breathing vapors or mists. Avoid contact with skin, eyes and clothing. Keep away Advice on safe handling

from open flames, hot surfaces and sources of ignition. Contents under pressure. Do not puncture or incinerate cans. Handle in accordance with good industrial hygiene and safety

practice. Take precautionary measures against static discharges.

Conditions for safe storage, including any incompatibilities

Technical measures/Storage

conditions

Keep container tightly closed in a dry and well-ventilated place. Keep away from open

flames, hot surfaces, and sources of ignition. Keep in properly labeled containers. Keep out

of the reach of children. Store locked up.

Incompatible products Strong acids, alkalis, oxidizing agents.

Aerosol Level

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
PROPANE/ISOBUTANE/N-BUTANE	74-98-6: TWA: 1000 ppm	74-98-6:TWA: 1000 ppm	74-98-6:IDLH: 2100 ppm
68476-86-8	106-97-8: STEL: 1000 ppm	TWA: 1800 mg/m ³	TWA: 1000 ppm
	75-28-5: STEL: 1000 ppm	(vacated) TWA: 1000 ppm	TWA: 1800 mg/m ³
		(vacated) TWA: 1800 mg/m ³	106-97-8:TWA: 800 ppm
		106-97-8: (vacated) TWA: 800	TWA: 1900 mg/m ³
		ppm	75-28-5:TWA: 800 ppm
		(vacated) TWA: 1900 mg/m ³	TWA: 1900 mg/m ³
HEPTANE	TLV: 400 ppm	TWA: 500 ppm	-
64742-49-0	STEL: 500 ppm		
ZINC OXIDE	STEL: 10 mg/m ³ respirable	TWA: 5 mg/m³ fume	IDLH: 500 mg/m ³
1314-13-2	fraction	TWA: 15 mg/m³ total dust	Ceiling: 15 mg/m³ dust
	TWA: 2 mg/m³ respirable fraction	TWA: 5 mg/m³ respirable fraction	TWA: 5 mg/m ³ dust and fume
		(vacated) TWA: 5 mg/m3 fume	STEL: 10 mg/m³ fume
		(vacated) TWA: 10 mg/m³ total	
		dust	
		(vacated) TWA: 5 mg/m ³	
		respirable fraction	
		(vacated) STEL: 10 mg/m³ fume	
TITANIUM DIOXIDE	TWA: 10 mg/m ³	TWA: 15 mg/m³ total dust	IDLH: 5000 mg/m ³
13463-67-7		(vacated) TWA: 10 mg/m³ total	
		dust	

ACGIH: (American Conference of Governmental Industrial Hygienists)

OSHA: (Occupational Safety & Health Administration) NIOSH IDLH: Immediately Dangerous to Life or Health

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

Exposure controls

Engineering MeasuresVentilation systems. Use adequate ventilation to keep the exposure levels below the

occupational exposure limits. Showers. Eyewash stations. Showers, eyewash stations, and

ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Tightly fitting safety goggles.

Skin and body protection Chemical resistant apron. Protective gloves.

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

Hygiene measures When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area

and clothing. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Avoid breathing

vapors, mist or gas. Wear personal protective equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties

Physical state Aerosol

Appearance Opaque Odor Solvent

Color White Odor Threshold

Property Values Remarks • Methods

pH 10.97 +/- 0.50

Melting/freezing point No information available

Boiling point/boiling range

Flash Point -97 °C / -143 °F Based on propellant

Evaporation rate No information available Flammability (solid, gas) No information available

Flammability Limits in Air upper flammability limit lower flammability limit

Vapor pressure Vapor density

Specific Gravity0.729Water solubilityNegligible

Partition coefficient: n-octanol/water

Autoignition temperature

No information available

Not applicable

Decomposition temperature

Viscosity No information available

Explosive properties

Other information

VOC Content(%) 23.41

10. STABILITY AND REACTIVITY

Reactivity

Stable under recommended storage conditions

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to Avoid

oxidizing materials. Strong bases. Heat, flames and sparks. Extremes of temperature and direct sunlight.

Incompatible Materials

Strong acids, alkalis, oxidizing agents.

Hazardous Decomposition Products

Carbon oxides, Hydrocarbons, Fumes. Fumes.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation Respiratory irritation may occur if excessive exposure to product by inhalation.

Eye contact Eye irritation may occur if excessive exposure to product occurs.

Skin contact Causes skin irritation.

Ingestion May be fatal if swallowed and enters airways.

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
PROPANE/ISOBUTANE/N-BUTAN	-	-	=31mg/L (Rat) 4 hr
E			
68476-86-8			
HEPTANE 64742-49-0	> 5000 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	= 73680 ppm (Rat) 4 h
HYDROCARBON SOLVENT 64742-96-7	> 5000 mg/kg(Rat)	> 2000 mg/kg (Rabbit)	> 5.28 mg/L (Rat) 4 h
ZINC OXIDE 1314-13-2	> 5000 mg/kg(Rat)	-	-
TITANIUM DIOXIDE 13463-67-7	> 10000 mg/kg (Rat)	-	-
AMMONIA 1336-21-6	= 350 mg/kg (Rat)	-	-

Information on toxicological effects

Symptoms Causes skin irritation. Suspected of causing cancer. May be fatal if swallowed and enters

airways.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Irritating to skin.

Eye damage/irritation Under normal conditions there is no eye irritation . Excessive conditions to product may

cause eye irritation.

SensitizationNot a known sensitizer. **Germ Cell Mutagenicity**Not a germ cell mutagen.

Carcinogenicity The table below indicates whether each agency has evaluated a listed ingredient as a

carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
TITANIUM DIOXIDE	-	2B	-	-
13463-67-7				

ACGIH: (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

IARC: (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

OSHA: (Occupational Safety & Health Administration)

X - Present

Reproductive toxicity
Specific target organ systemic

specific target organ systemic toxicity (single exposure)
Specific target organ systemic

toxicity (repeated exposure)
Chronic toxicity

This product contains a chemical(s) which is a known or suspected reproductive hazard.

No known effect based on information supplied.

No known effect based on information supplied.

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 No known effects under normal use conditions.

Neurological effects Intentional misuse by deliberately concentrating and inhaling contents may be harmful or

fatal.

Aspiration hazard May be fatal if swallowed and enters airways.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 0.0000019% of the mixture consists of ingredient(s) of unknown toxicity.

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

ATEmix (oral) 23938 mg/kg
ATEmix (dermal) 30287 mg/kg
ATEmix (inhalation-dust/mist) 5086.3 mg/l
ATEmix (inhalation-vapor) 239 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
PROPANE/ISOBUTANE/N- BUTANE 68476-86-8	-	-	-	-
NAPHTHENIC OIL, SEVERLY HYDROT 64742-52-5	-	5000 mg/L LC50 Oncorhynchus mykiss 96h	-	1000 mg/L EC50 Daphnia magna 48h
AMMONIA 1336-21-6	-	8.2 mg/L LC50 Pimephales promelas 96h	-	0.66 mg/L EC50 water flea 48h 0.66 mg/L EC50 Daphnia pulex 48h

Persistence and degradability

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Bioaccumulation

Chemical Name	log Pow
PROPANE/ISOBUTANE/N-BUTANE	<=2.8
68476-86-8	

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment

Waste Disposal Methods This material, as supplied, is a hazardous waste according to federal regulations (40 CFR

261). Dispose of in accordance with federal, state, and local regulations. Dispose of in accordance with federal, state, and local regulations. Dispose of contents/container in

accordance with local regulation.

Contaminated packaging Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT Ground CONSUMER COMMODITY ORM-D

or

LIMITED QUANTITY

IATA UN1950, AEROSOLS, FLAMMABLE, 2.1, LTD.QTY.

IMDG UN1950, AEROSOLS, 2.1, LTD. QTY.

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL/NDSL	EINECS/ELI	ENCS	IECSC	KECL	PICCS	AICS
			NCS					

PROPANE/ISOBUTA NE/N-BUTANE	Х	Х	Х	х	Х	Х	Х	Х
HEPTANE	Χ	X	Х	Not listed	X	Χ	X	X
NAPHTHENIC OIL, SEVERLY HYDROT	Х	Х	Х	Not listed	Х	Х	Х	Х
HYDROCARBON SOLVENT	Х	Х	Х	Not listed	Х	Х	Х	Х
ZINC OXIDE	Х	Х	Х	Х	Х	Х	Х	Х
TITANIUM DIOXIDE	Х	Х	Х	Х	Х	Х	Х	X
AMMONIA	Х	Х	Х	X	Х	Х	X	Х

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 Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

CHINA - 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

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does contain a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %*	SARA 313 - Threshold Values %
ZINC OXIDE - 1314-13-2	1314-13-2	<1	1.0
AMMONIA - 1336-21-6	1336-21-6	<0.1	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Star Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	Yes
Reactive Hazard	No

Clean Water Act

This product does contain the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
ZINC OXIDE 1314-13-2		X		
AMMONIA 1336-21-6	1000 lb			Х

CERCLA

This material, as supplied, does contain substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
AMMONIA 1336-21-6	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

Titanium Dioxide, (CAS # 13463-67-7), must be airborne, unbound, and of a particle size < 10 micrometers in diameter to be considered a Proposition 65 chemical. For this product, Titanium Dioxide is bound in the product and no inhalation exposure will occur during the handling or use of this product in this application.



This product can expose you to chemicals including those listed below, which is [are] known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Chemical Name	California Prop. 65	
TITANIUM DIOXIDE - 13463-67-7	Cancer <1%	

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
ZINC OXIDE 1314-13-2	Х	X	Х
TITANIUM DIOXIDE 13463-67-7	Х	X	Х
AMMONIA 1336-21-6	Х	X	X

EPA Pesticide Registration Number Not applicable

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

WHMIS Hazard Class

A Compressed gases B5 Flammable aerosol D2B Toxic materials

16. OTHER INFORMATION

NFPA Health Hazard 2 Flammability 4 Instability 0 Physical and chemical

hazards -

<u>HMIS</u> Health Hazard 2* Flammability 4 Physical Hazard 1 Personal protection B Chronic Hazard Star Legend Chronic Health Star Hazard Repeated or prolonged exposure may cause central nervous system

damage

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Revision Note

(M)SDS sections updated 15

<u>Disclaimer</u>

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Safety Data Sheet