

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations -..... . . 00/05/004

	according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations	
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SECTION 1: Identification o	f the substance/mixture and of the company/undertaking	
.1. Product identifier		
Product form	: Mixture	
rade name	: JOHNSEN'S WHITE LITHIUM GREASE 11 OZ.	
Product code	: 4604	
.2. Relevant identified uses	of the substance or mixture and uses advised against	
Jse of the substance/mixture	: White Grease	
I.3. Details of the supplier of	the safety data sheet	
Technical Chemical Company		
P.O. BOX 139 Cleburne, Texas 76033		
T 817-645-6088		
I.4. Emergency telephone nu	mber	
Emergency number	: CHEMTREC 24 Hour 1-800-424-9300	
SECTION 2: Hazards identif	ication	
2.1. Classification of the subs	stance or mixture	
Classification (GHS-US)		
Flam. Aerosol 1 H222		
Compressed gas H280 Skin Irrit. 2 H315		
Muta. 1B H340		
Carc. 2 H351		
Repr. 2 H361 STOT SE 3 H336		
STOT RE 2 H373		
Full text of H-phrases: see section 16	δ	
2.2. Label elements		
GHS-US labeling		
Hazard pictograms (GHS-US)		
	GHS02 GHS04 GHS07 GHS08	
Signal word (GHS-US)	: Danger	
Hazard statements (GHS-US)	: H222 - Extremely flammable aerosol	
	H280 - Contains gas under pressure; may explode if heated	
	H315 - Causes skin irritation H336 - May cause drowsiness or dizziness	
	H340 - May cause genetic defects	
	H351 - Suspected of causing cancer	
	H361 - Suspected of damaging fertility or the unborn child	
Proposition on a statements (CLIC LLC)	H373 - May cause damage to organs through prolonged or repeated exposure	
Precautionary statements (GHS-US)	 P201 - Obtain special instructions P202 - Do not handle until all safety precautions have been read and understood 	
	P210 - Keep away from heat, sparks, 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 P260 - Do not breathe dust,fumes,gas,mist,vapor spray	
	P261 - Avoid breathing dust,fume,gas,mist,vapor spray	
	P264 - Wash affected areas thoroughly after handling	
	P271 - Use only outdoors or in a well-ventilated area	
	P280 - Wear protective gloves,protective clothing,eye protection,face protection P302+P352 - If on skin: Wash with plenty of soap and water	
	P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing	
	P308+P313 - If exposed or concerned: Get medical advice/attention	
	P312 - Call a POISON CONTROL CENTER, doctor, if you feel unwell. P314 - Get medical advice/attention if you feel unwell	
	P321 - Specific treatment: See section 4.1 on this label	
	P332+P313 - If skin irritation occurs: Get medical advice/attention	
	P362 - Take off contaminated clothing and wash before reuse	
26/08/2014	P403+P233 - Store in a well-ventilated place. Keep container tightly closed	1/11

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P405 - Store locked up
P410+P403 - Protect from sunlight. Store in a well-ventilated place
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F
P501 - Dispose of contents/container to appropriate waste disposal facility, in accordance with
local, regional, national, international regulations.

2.3. Other hazards

Other hazards not contributing to the : Contains gas under pressure; may explode if heated.

classification 2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

- Substance 3.1.
- Not applicable

3.2. **Mixture**

Name	Product identifier	%	Classification (GHS-US)
Heptane, branched cyclic	(CAS No) 426260-76-6	40.2816 - 41.96	Flam. Liq. 1, H224 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 3, H412
Petroleum gases, liquefied, sweetened	(CAS No) 68476-86-8	30 - 50	Flam. Gas 1, H220 Flam. Liq. 1, H224 Muta. 1B, H340 Carc. 1A, H350
heptane	(CAS No) 142-82-5	10.49 - 18.882	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
distillates (petroleum), hydrotreated heavy naphthenic	(CAS No) 64742-52-5	< 16.182	Not classified
12-hydroxystearic acid	(CAS No) 106-14-9	< 1.798	Not classified
Toluene	(CAS No) 108-88-3	0.4196 - 1.6784	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304
lithium hydroxide, monohydrate	(CAS No) 1310-66-3	< 0.899	Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314
titanium(IV) oxide	(CAS No) 13463-67-7	< 0.899	Carc. 2, H351
polytetrafluoroethylene	(CAS No) 9002-84-0	< 0.1798	Not classified

SECTION 4: First aid measures

4.1. Description of first aid measures	
First-aid measures general	: Never give anything by mouth to an unconscious person. Suspected of causing cancer. IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: Cough. Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell.
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs Get medical advice/attention.
First-aid measures after eye contact	: Direct contact with the eyes is likely to be irritating. Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms and effect	ts, both acute and delayed
Symptoms/injuries	: May cause genetic defects. Suspected of damaging fertility or the unborn child. Causes damage to organs.
Symptoms/injuries after inhalation	: Shortness of breath. May cause drowsiness or dizziness.
Symptoms/injuries after skin contact	: Causes skin irritation.
4.3. Indication of any immediate medical	attention and special treatment needed
No additional information available	

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

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5.2. Special hazards arising from the substance or mixture			
Fire hazard	: Highly flammable liquid and vapor. Extremely flammable aerosol.		
Explosion hazard	: May form flammable/explosive vapor-air mixture. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.		
5.3. Advice for firefighters			
Firefighting instructions	 Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. DO NOT fight fire when fire reaches explosives. Evacuate area. 		
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.		
Other information	: Aerosol level 3.		
SECTION C. Assidental release m			
SECTION 6: Accidental release m			
6.1. Personal precautions, protective	equipment and emergency procedures		
General measures	: No naked lights. No smoking. Isolate from fire, if possible, without unnecessary risk. Remove ignition sources. Use special care to avoid static electric charges.		
6.1.1. For non-emergency personnel			
Protective equipment	: Gloves. Safety glasses.		
Emergency procedures	: Evacuate unnecessary personnel.		
6.1.2. For emergency responders			
Protective equipment	: Equip cleanup crew with proper protection. Avoid breathing dust,fume,gas,mist,vapor spray.		
Emergency procedures	: Ventilate area.		
0	. vontilato area.		
6.2. Environmental precautions			
Prevent entry to sewers and public waters. N	otify authorities if liquid enters sewers or public waters.		

6.3.	Methods and material for containment and cleaning up		
For conta	ainment	:	Dam up the liquid spill.
Methods	for cleaning up		Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Reference to other sections 6.4.

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable. Hazardous waste due to potential risk of explosion. Pressurized container: Do not pierce or burn, even after use.
Precautions for safe handling	: No naked lights. No smoking. Use only non-sparking tools. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not spray on an open flame or other ignition source. Obtain special instructions . Do not handle until all safety precautions have been read and understood. Eliminate all ignition sources if safe to do so. Avoid breathing dust,fume,gas,mist,vapor spray. Use only outdoors or in a well-ventilated area.
Hygiene measures	: Wash affected areas thoroughly after handling.
7.2. Conditions for safe storage, include	ng any incompatibilities
Technical measures	 Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating, lighting equipment Proper grounding procedures to avoid static electricity should be followed.
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Do not expose to temperatures exceeding 50 °C/ 122 °F. Keep in fireproof place. Keep container tightly closed.
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight. Heat sources.
Storage area	: Store in a well-ventilated place.

Follow Label Directions.

SECTION 8: Exposure controls/personal protection				
8.1. Control parameters				
distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)				
USA ACGIH	ACGIH TWA (mg/m³)	5 mg/m ³ MIST 8 HOURS		
USA OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m ³ MIST 8 HOURS		

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titanium(IV) oxide (13	3463-67-7)	
USA ACGIH	ACGIH TWA (mg/m³)	10 mg/m³
Toluene (108-88-3)		
USA ACGIH	ACGIH TWA (mg/m ³)	37 mg/m³
USA ACGIH	ACGIH TWA (ppm)	10 ppm
USA ACGIH	ACGIH STEL (mg/m ³)	560
USA ACGIH	ACGIH STEL (ppm)	150 ppm
USA ACGIH	ACGIH Ceiling (ppm)	500 ppm
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm
USA OSHA	OSHA PEL (Ceiling) (ppm)	300 ppm
heptane (142-82-5)	·	·
USA ACGIH	ACGIH TWA (ppm)	400 ppm
USA ACGIH	ACGIH STEL (ppm)	400 ppm
Heptane, branched c	vclic (426260-76-6)	
USA ACGIH	ACGIH TWA (ppm)	400 ppm
USA ACGIH	ACGIH STEL (ppm)	500 ppm
USA OSHA	OSHA PEL (TWA) (ppm)	500 ppm
Petroleum gases, lig	uefied, sweetened (68476-86-8)	
USA ACGIH	ACGIH TWA (ppm)	1000 ppm Listed under Aliphatic hydrocarbon gases alkane C1-C4
USA OSHA	OSHA PEL (TWA) (mg/m ³)	1800 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
	1	
.2. Exposure co	ntrols	

Hand protection	: Wear chemically resistant protective gloves. Wear protective gloves.
Eye protection	: Face shield. Chemical goggles or safety glasses.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.
Other information	: Do not eat, drink or smoke during use.

SECTION 9: Physical and	d chemical properties

26/08/2014	ENI (English LIS)	1/11
Flammability (solid, gas)	: No data available	
Decomposition temperature	: No data available	
Auto-ignition temperature	: No data available	
Flash point	: -9 °C (Lowest Component)	
Boiling point	: 88 °C (Lowest Component)	
Freezing point	: No data available	
Melting point	: No data available	
Relative evaporation rate (butyl acetate=1)	: No data available	
рН	: No data available	
Odor threshold	: No data available	
Odor	: Sweet.	
Color	: White.	
Appearance	: Liquid.	
Physical state	: Gas	
9.1. Information on basic physical a	and chemical properties	

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Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 0.78
Solubility	: Insoluble in water.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Heating may cause a fire or explosion.
Oxidizing properties	: No data available
Explosive limits	: No data available
9.2. Other information	

VOC content

: 82 %

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions. Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture. Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Extreme risk of explosion by shock, friction, fire or other sources of ignition.

10.3.	Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Heat. Sparks. Open flame. Overheating.

10.5. Incompatible materials

Oxidizing agent. Strong acids. Strong bases.

10.6. Hazardous decomposition products

May release flammable gases. Toxic fume. . Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

: Not classified

lithium hydroxide, monohydrate (1310-66-3)		
LD50 oral rat	368 mg/kg body weight (Rat; Weight of evidence; 491 mg/kg bodyweight; Rat; Weight of evidence)	
LD50 dermal rat	> 2000 mg/kg body weight (Rat; Read-across; OECD 402: Acute Dermal Toxicity)	
LC50 inhalation rat (mg/l)	> 6.15 mg/l/4h (Rat; Experimental value)	
distillates (petroleum), hydrotreated heavy na	phthenic (64742-52-5)	
LD50 oral rat	> 5000 mg/kg body weight	
LD50 dermal rabbit	> 2000 mg/kg body weight	
LC50 inhalation rat (mg/l)	> 5.2 mg/l/4h	
titanium(IV) oxide (13463-67-7)		
LD50 oral rat	> 10000 mg/kg (Rat; OECD 425: Acute Oral Toxicity: Up-and-Down Procedure; Experimental value; > 5000 mg/kg bodyweight; Rat; Experimental value)	
LD50 dermal rabbit	> 10000 mg/kg (Rabbit; Experimental value)	
LC50 inhalation rat (mg/l)	> 6.8 mg/l/4h (Rat; Experimental value)	
Toluene (108-88-3)		
LD50 oral rat	5580 mg/kg body weight	
LD50 dermal rabbit	> 5000 mg/kg body weight LD50 quoted as 14.1 mL/kg (12267 mg/kg using density of 0.87)	
LC50 inhalation rat (mg/l)	> 28.1 mg/l/4h (Rat; Air, Literature study)	
heptane (142-82-5)		
LD50 oral rat	> 15000 mg/kg (Rat; Equivalent or similar to OECD 401; Literature study; >5000 mg/kg bodyweight; Rat; Read-across)	
LD50 dermal rabbit	> 3160 mg/kg (Rabbit; Literature study; Equivalent or similar to OECD 402; >2000 mg/kg bodyweight; Rabbit; Read-across)	

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heptane (142-82-5)			
LC50 inhalation rat (mg/l)	103 mg/l/4h (Rat; Literature study)		
LC50 inhalation rat (ppm)	25000 ppm/4h (Rat; Literature study)		
Heptane, branched cyclic (426260-76-6)			
LD50 oral rat	> 15000 mg/kg (Rat; Equivalent or similar to OECD 401; Literature study; >5000 mg/kg bodyweight; Rat; Read-across)		
LD50 dermal rabbit	> 3160 mg/kg (Rabbit; Literature study; Equivalent or similar to OECD 402; >2000 mg/kg bodyweight; Rabbit; Read-across)		
LC50 inhalation rat (mg/l)	103 mg/l/4h (Rat; Literature study)		
LC50 inhalation rat (ppm)	25000 ppm/4h (Rat; Literature study)		
Skin corrosion/irritation	: Causes skin irritation.		
Serious eye damage/irritation	: Not classified		
Respiratory or skin sensitization	: Not classified		
Germ cell mutagenicity	: May cause genetic defects.Based on available data, the classification criteria are not met		
Carcinogenicity	: Suspected of causing cancer.		
distillates (petroleum), hydrotreated heavy	naphthenic (64742-52-5)		
IARC group	3		
titanium(IV) oxide (13463-67-7)			
IARC group	2B		
polytetrafluoroethylene (9002-84-0)			
IARC group	3		
Toluene (108-88-3)			
IARC group	3		
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.Based on available data, the classification criteria are not met		
Specific target organ toxicity (single exposure)			
	: May cause drowsiness or dizziness.		
Specific target organ toxicity (repeated exposure)	 May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure.Based on available dat the classification criteria are not met May cause damage to organs through prolonged or repeated exposure 		
exposure)	 May cause damage to organs through prolonged or repeated exposure.Based on available dat the classification criteria are not met May cause damage to organs through prolonged or repeated exposure 		
exposure) Aspiration hazard Potential Adverse human health effects and	 May cause damage to organs through prolonged or repeated exposure.Based on available dat the classification criteria are not met 		
exposure)	 May cause damage to organs through prolonged or repeated exposure.Based on available dat the classification criteria are not met May cause damage to organs through prolonged or repeated exposure Not classifiedBased on available data, the classification criteria are not met 		

SECTION 12: Ecological information

^{12.1.} Toxicity

lithium hydroxide, monohydrate (1310-66-3)		
LC50 fish 1	109 mg/l (96 h; Danio rerio; Lethal)	
EC50 Daphnia 1	33.5 mg/l (48 h; Daphnia magna; pH > 7)	
Threshold limit algae 1	41.62 mg/l (72 h; Pseudokirchneriella subcapitata; Biomass)	
Threshold limit algae 2	153.44 mg/l (72 h; Pseudokirchneriella subcapitata; Growth rate)	
titanium(IV) oxide (13463-67-7)		
LC50 fish 1	> 1000 mg/l (96 h; Pimephales promelas)	
EC50 Daphnia 1	< 1000 mg/l (432 h; Daphnia magna; Static system)	
LC50 fish 2	> 1 g/l (96 h; Leuciscus idus)	
EC50 Daphnia 2	< 500 mg/l (720 h; Daphnia magna; Static system)	
Threshold limit algae 1	61 mg/l (72 h; Pseudokirchneriella subcapitata)	
Toluene (108-88-3)		
LC50 fish 1	24 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)	
EC50 Daphnia 1	84 mg/l (24 h; Daphnia magna; Locomotor effect)	
LC50 fish 2	13 mg/l (96 h; Lepomis macrochirus)	
EC50 Daphnia 2	11.5 - 19.6 mg/l (48 h; Daphnia magna)	
Threshold limit algae 1	> 400 mg/l (168 h; Scenedesmus quadricauda; Toxicity test)	
Threshold limit algae 2	105 mg/l (192 h; Microcystis aeruginosa)	

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hentane (1/2-82-5)		
heptane (142-82-5) LC50 fish 1	375 mg/l (96 h; Tilapia mosambica; Nominal concentration)	
LC50 other aquatic organisms 1	> 1000 mg/l (96 h)	
EC50 Daphnia 1	1.5 mg/l (48 h; Daphnia magna)	
LC50 fish 2	> 100 mg/l (96 h; Oncorhynchus kisutch)	
TLM fish 1	4924 mg/l (48 h; Gambusia affinis)	
Threshold limit other aquatic organisms 1 Threshold limit algae 1	 > 1000 mg/l (96 h) > 200 mg/l (Scenedesmus quadricauda; Toxicity test) 	
Threshold limit algae 2	1.5 mg/l (8 h; Algae; Photosynthesis)	
12.2. Persistence and degradability		
JOHNSEN'S WHITE LITHIUM GREASE 11 (DZ.	
Persistence and degradability	Not established.	
lithium hydroxide, monohydrate (1310-66-3	3)	
Persistence and degradability	Biodegradability: not applicable.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
BOD (% of ThOD)	Not applicable	
12-hydroxystearic acid (106-14-9)		
Persistence and degradability	Readily biodegradable in water.	
titanium(IV) oxide (13463-67-7)		
Persistence and degradability	Biodegradability: not applicable. Low potential for mobility in soil.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
BOD (% of ThOD)	Not applicable	
polytetrafluoroethylene (9002-84-0)		
Persistence and degradability	No test data available. No (test)data on mobility of the substance available.	
Toluene (108-88-3)		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil.	
Biochemical oxygen demand (BOD)	2.15 g O ₂ /g substance	
Chemical oxygen demand (COD)	2.52 g O ₂ /g substance	
ThOD	3.13 g O ₂ /g substance	
BOD (% of ThOD)	0.69 % ThOD	
heptane (142-82-5)		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Adsorbs into the soil.	
Biochemical oxygen demand (BOD)	1.92 g O ₂ /g substance	
Chemical oxygen demand (COD)		
onomical oxygen demand (COD)	0.06 g O_2 /g substance	
ThOD	0.06 g O ₂ /g substance 3.52 g O ₂ /g substance	
ThOD BOD (% of ThOD)	3.52 g O ₂ /g substance	
ThOD BOD (% of ThOD) Heptane, branched cyclic (426260-76-6)	3.52 g O ₂ /g substance > % ThOD (5 day(s)) > 0.5	
ThOD BOD (% of ThOD) Heptane, branched cyclic (426260-76-6) Persistence and degradability	3.52 g O ₂ /g substance > % ThOD (5 day(s)) > 0.5 May cause long-term adverse effects in the environment.	
ThOD BOD (% of ThOD) Heptane, branched cyclic (426260-76-6) Persistence and degradability Petroleum gases, liquefied, sweetened (68	3.52 g O ₂ /g substance > % ThOD (5 day(s)) > 0.5 May cause long-term adverse effects in the environment. 476-86-8)	
ThOD BOD (% of ThOD) Heptane, branched cyclic (426260-76-6) Persistence and degradability	3.52 g O ₂ /g substance > % ThOD (5 day(s)) > 0.5 May cause long-term adverse effects in the environment.	
ThOD BOD (% of ThOD) Heptane, branched cyclic (426260-76-6) Persistence and degradability Petroleum gases, liquefied, sweetened (68	3.52 g O ₂ /g substance > % ThOD (5 day(s)) > 0.5 May cause long-term adverse effects in the environment. 476-86-8)	
ThOD BOD (% of ThOD) Heptane, branched cyclic (426260-76-6) Persistence and degradability Petroleum gases, liquefied, sweetened (68 Persistence and degradability	3.52 g O ₂ /g substance > % ThOD (5 day(s)) > 0.5 May cause long-term adverse effects in the environment. 476-86-8) Not established.	
ThOD BOD (% of ThOD) Heptane, branched cyclic (426260-76-6) Persistence and degradability Petroleum gases, liquefied, sweetened (68 Persistence and degradability 12.3. Bioaccumulative potential JOHNSEN'S WHITE LITHIUM GREASE 11 (3.52 g O ₂ /g substance > % ThOD (5 day(s)) > 0.5 May cause long-term adverse effects in the environment. 476-86-8) Not established.	
ThOD BOD (% of ThOD) Heptane, branched cyclic (426260-76-6) Persistence and degradability Petroleum gases, liquefied, sweetened (68 Persistence and degradability 12.3. Bioaccumulative potential JOHNSEN'S WHITE LITHIUM GREASE 11 (Bioaccumulative potential	3.52 g O ₂ /g substance > % ThOD (5 day(s)) > 0.5 May cause long-term adverse effects in the environment. 476-86-8) Not established.	
ThOD BOD (% of ThOD) Heptane, branched cyclic (426260-76-6) Persistence and degradability Petroleum gases, liquefied, sweetened (68 Persistence and degradability 12.3. Bioaccumulative potential JOHNSEN'S WHITE LITHIUM GREASE 11 (Bioaccumulative potential lithium hydroxide, monohydrate (1310-66-	3.52 g O ₂ /g substance > % ThOD (5 day(s)) > 0.5 May cause long-term adverse effects in the environment. 476-86-8) Not established. DZ. Not established. 3)	
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ThOD BOD (% of ThOD) Heptane, branched cyclic (426260-76-6) Persistence and degradability Petroleum gases, liquefied, sweetened (68 Persistence and degradability 12.3. Bioaccumulative potential JOHNSEN'S WHITE LITHIUM GREASE 11 (Bioaccumulative potential lithium hydroxide, monohydrate (1310-66-3 Bioaccumulative potential	3.52 g O ₂ /g substance > % ThOD (5 day(s)) > 0.5 May cause long-term adverse effects in the environment. 476-86-8) Not established. DZ. Not established. 3)	
ThOD BOD (% of ThOD) Heptane, branched cyclic (426260-76-6) Persistence and degradability Petroleum gases, liquefied, sweetened (68 Persistence and degradability 12.3. Bioaccumulative potential JOHNSEN'S WHITE LITHIUM GREASE 11 (Bioaccumulative potential lithium hydroxide, monohydrate (1310-66-3 Bioaccumulative potential 12-hydroxystearic acid (106-14-9)	3.52 g O ₂ /g substance > % ThOD (5 day(s)) > 0.5 May cause long-term adverse effects in the environment. 476-86-8) Not established. OZ. Not established. 3) Bioaccumulation: not applicable.	
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Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

polyteralluorcettydaen (0002-84-0) Boaccumulative potential No test data available. Foliane (100-88-3) 122 (Anguila japonica) BCF fish 1 132 (Anguila japonica) BCF fish 2 90 (72 h. Lanckaus dua) BCF fish 2 90 (72 h. Lanckaus dua) BCF duar aquatic organisms 1 300 (24 h. Chilvella say. Firsh weight) BCF duar aquatic organisms 1 42 (Myluia edida; Fresh weight) BCF duar aquatic organisms 1 552 BCF duar aquatic organisms 1 562 BCR duartic potential Not estabilished. Petratum gases, liquefield, sweetned (68476-96-8) Beaccumulative potential Boaccumulative potential Not estabilished. 12.4. Mobility in soil Foliane (142-82-5) Surface tension 0.020 Nm (20 °C) Bufane (142-82-5) Surface tension 0.020 Nm (20 °C) Surface tension 0.020 Nm (20 °C) 11.1. Wasis treatemont methods Waste	Jan	·····, ····,	
Tolurane (106-88-3) Tolurane (106-88-3) BCF fini 1 13.2 (Anguila japonica) BCF fini 2 90 (72 ht Laudicus idus) BCF fini 2 2.73 (Experimental value, Other, 20 °C) Biascumulative potential Low potential (75 biascumulation (8CF < 50).		· · ·	
BCF fini 1 13.2 (Angulia piponica) BCF fini 2 190 (72 h. Loucices ukug) BCF other aquatic organisms 1 230 (24 h. Chorella sp., Fresh weight) EGF other aquatic organisms 2 4.2 (Mikus dults, Fresh weight) EGF other aquatic organisms 1 522 Bioaccumulative potential Low potential for bioaccumulation (BCF < 500).	Bioaccumulative potential		No test data available.
BCF file 2 90 (72 h; Louckeus idvs) BCF other aquatic organisms 1 390 (24 h; Chlorella sci, Frieh weight) BCF other aquatic organisms 2 42 (Myllus eduls; Fresh weight) BCF other aquatic organisms 1 42 (Myllus eduls; Fresh weight) BCF other aquatic organisms 1 552 BCF other aquatic organisms 1 552 Log Pow 4.66 (Experimental value: 4.5; Librature) BCF other aquatic organisms 1 552 Log Pow 4.66 (Experimental value: 4.5; Librature) Beaccumulative potential Potential for bioaccumulation (4 ≥ Log Kow ≤ 5). Heptane, branched cyclic (42250-76-4) Beaccumulative potential Beaccumulative potential Not established. 12.4. Mobility in soil Tolumer (168-83-3) Beaccumulative potential Surface tension 0.03 N/m (20 °C) 13.4. Waste tension 13.5. Other adverse effects Other information : Avoid release to the environment. SECTION 13: Disposal considerations : Avoid release to the environment. SECTION 14: Disposal considerations : Avoid release to the environment. SECTION 14: Transport information : Brande and rele release residual vapors are flammable. Flammable vapors may accumulate in the container. Strace tension : Avoid release to the environment.	Toluene (108-88-3)		
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BCF other aquatic organisms 2 4.2 (Mylike adults; Fresh weigh) Lag Pow 2.73 (Exernimental value: Other, 2010) Bioaccumulative potential Low potential for bioaccumulation (BCF < 500).	BCF other aquatic organisms 1		
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Bioaccumulative potential Low potential for bioaccumulation (BCF < 500).			
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Other information : Avoid release to the environment. SECTION 13: Disposal considerations 13.1 Waste treatment methods Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Container under pressure. Do not drill or burn even after use. Dispose of contents/container to appropriate waste disposal facility, in accordance with local, regulations. International regulations. Additional information : Handle empty containers with care because residual vapors are flammable. Flammable vapors may accumulate in the container. Ecology - waste materials : Avoid release to the environment. SECTION 14: Transport information Inimited Quantity In accordance with ADR / RID / IMDG / IATA / ADN US DOT (ground): UN1950, Aerosols, 2.1, Limited Quantity ICAO/IATA (air): UN1950, Aerosols, 2.1, Limited Quantity IMO/IMDG (water): UN1950, Aerosols, 2.1, Limited Quantity Special Provisions: N82 - See 173.306 of this subchapter for classification criteria for flammable aerosols. 14.2 UN proper shipping name : Aerosols flammable, (each not exceeding 1 L capacity) Department of Transportation (DOT) Hazard : 2.1 - Flammable gas 49 CFR 173.115 Classes Hazard labels (DOT) : 2.1 - Flammable gas DOT Special Provisions (49 CFR 173.xxx) : N	Surface tension		0.020 N/m (20 °C)
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SECTION 13: Disposal considerations 3.1 Waste treatment methods Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Container under pressure. Do not drill or burn even after use. Dispose of contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations. Additional information : Handle empty containers with care because residual vapors are flammable. Flammable vapors may accumulate in the container. Ecology - waste materials : Avoid release to the environment. SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / ADN US DOT (ground): UN1950, Aerosols, 2.1, Limited Quantity ICAO/IATA (air): UN1950, Aerosols, 2.1, Limited Quantity IVCAO/IATA (air): UN1950, Aerosols, 2.1, Limited Quantity IVO/IMDG (water): UN1950, Aerosols, 2.1, Limited Quantity IVO/IATA (air): UN 1950, Aerosols, 2.1, Limited Quantity IVO/IPoper shipping name : Aerosols DOT Proper Shipping Name : Aerosols flammabl		e effects	
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	DUT Packaging BUIK (49 CFR 1/3.XXX) : NONE		

Safety Data Sheet

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14.3. Additional information	
Other information	: No supplementary information available.
Overland transport	
No additional information available	
Fransport by sea	
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other	: 48 - Stow "away from" sources of heat,87 - Stow "separated from" Class 1 (explosives) exception bivision 14,126 - Segregation same as for Class 9, miscellaneous hazardous materials
Air transport	
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 75 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 150 kg
SECTION 15: Regulatory information	
15.1. US Federal regulations	
JOHNSEN'S WHITE LITHIUM GREASE 11 02	
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard
	Fire hazard
	Immediate (acute) health hazard
	Sudden release of pressure hazard
distillates (petroleum), hydrotreated heavy n	aphthenic (64742-52-5)
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard
Toluene (108-88-3)	
Listed on United States SARA Section 313 Listed on the United States TSCA (Toxic Substa	ances Control Act) inventory
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard
	Fire hazard
	Immediate (acute) health hazard
Heptane, branched cyclic (426260-76-6)	
Not listed on the United States TSCA (Toxic Su	bstances Control Act) inventory
SARA Section 311/312 Hazard Classes	Fire hazard
	Immediate (acute) health hazard
	Delayed (chronic) health hazard
Petroleum gases, liquefied, sweetened (6847	(6-86-8)
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
	Fire hazard
	Sudden release of pressure hazard
15.2. International regulations	
JOHNSEN'S WHITE LITHIUM GREASE 11 02	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class B Division 5 - Flammable Aerosol
Toluene (108-88-3)	
WHMIS Classification	Class B Division 2 - Flammable Liquid
	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects
Heptane, branched cyclic (426260-76-6)	
WHMIS Classification	Class P. Division 2. Elemmetria Liquid

EU-Regulations

WHMIS Classification

Toluene (108-88-3)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	

Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision B - Toxic material causing other toxic effects

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

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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

Carc.Cat.1; R45

Muta.Cat.2; R46 Repr.Cat.3; R63 F+; R12 Xi; R36/37/38 Full text of R-phrases: see section 16

15.2.2. National regulations

No additional information available

15.3. US State regulations

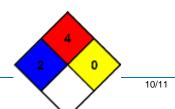
Toluene (108-88-3)

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

SECTION 16: Other information	on	
Indication of changes	: Revision - See : *.	
Other information	: None.	
	. None.	
Full text of H-phrases: see section 16: Acute Tox. 4 (Oral)		Acute terrisity (arel) October 1
		Acute toxicity (oral) Category 4
Aquatic Acute 1 Aquatic Chronic 1		Hazardous to the aquatic environment - Acute Hazard Category 1 Hazardous to the aquatic environment - Chronic Hazard Category 1
Aquatic Chronic 3		Hazardous to the aquatic environment - Chronic Hazard Category 3
Asp. Tox. 1		Aspiration hazard Category 1
Carc. 1A		Carcinogenicity Category 1A
Carc. 2		Carcinogenicity Category 2
Compressed gas		Gases under pressure Compressed gas
Flam. Aerosol 1		Flammable aerosol Category 1
Flam. Gas 1		Flammable gases Category 1
Flam. Liq. 1		Flammable liquids Category 1
Flam. Liq. 2		Flammable liquids Category 2
Muta. 1B		Germ cell mutagenicity Category 1B
Repr. 2		Reproductive toxicity Category 2
Skin Corr. 1A		Skin corrosion/irritation Category 1A
Skin Irrit. 2		Skin corrosion/irritation Category 2
STOT RE 2		Specific target organ toxicity (repeated exposure) Category 2
STOT SE 3		Specific target organ toxicity (single exposure) Category 3
H220		Extremely flammable gas
H222		Extremely flammable aerosol
H224		Extremely flammable liquid and vapor
H225		Highly flammable liquid and vapor
H280		Contains gas under pressure; may explode if heated
H302		Harmful if swallowed
H304		May be fatal if swallowed and enters airways
H314		Causes severe skin burns and eye damage
H315		Causes skin irritation
H336		May cause drowsiness or dizziness
H340		May cause genetic defects
H350		May cause cancer
H351		Suspected of causing cancer
H361		Suspected of damaging fertility or the unborn child
H373		May cause damage to organs through prolonged or repeated exposure
H400		Very toxic to aquatic life
H410		Very toxic to aquatic life with long lasting effects
H412		Harmful to aquatic life with long lasting effects
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NFPA health hazard

: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.



Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

NFPA fire hazard	 4 - Will rapidly or completely vaporize at normal pressure and temperature, or is readily dispersed in air and will burn readily.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 4 Severe Hazard
Physical	: 1 Slight Hazard
Personal Protection	: B

SDS US (GHS HazCom 2012) - Technical Chemical

The Supplier identified in Section 1 of this MSDS has evaluated this product and certifies it to be labeled and packaged in compliance with the applicable provisions of the Federal Hazardous Substance Act as stated in 16 CFR 1500 and enforced by the Consumer Product Safety Commission, and where applicable the products that require Child Resistant Closures are packaged in accordance with the Poison Prevention Packaging Act as stated in 16 CFR 1700 and enforced by the Consumer Product Safety Commission. All closures have been tested in accordance with the latest protocols. No other testing is required to certify compliance with the above. The date of manufacture is stamped on the product

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