

TF Lube

SDS Number: A230A

Revision Date: 9/4/2018

Page 1 of 12

1

PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

Wechem, Inc
5734 Susitna Dr
Harahan, LA 70123

Contact: Ligia M. Hernandez
Phone: 504-733-1152
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Web: www.wechem.com

Product Identifier: TF Lube
SDS Number: A230A
Product Code: A230
Revision Date: 9/4/2018
Product Use: Dry Lubricant & Release Agent with PTFE

Emergency Telephone Number:
INFOTRAC
1-800-535-5053

2

HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

Physical, Flammable Aerosols, 1
Health, Aspiration hazard, 1
Health, Serious Eye Damage/Eye Irritation, 2 A
Health, Specific target organ toxicity - Single exposure, 3
Environmental, Hazards to the aquatic environment - Acute, 2
Environmental, Hazards to the aquatic environment - Chronic, 2

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: DANGER

GHS Hazard Pictograms:



GHS Hazard Statements:

H222 - Extremely flammable aerosol
H304 - May be fatal if swallowed and enters airways
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness
H401 - Hazardous to aquatic life
H411 - Hazardous to aquatic life with long lasting effects

GHS Precautionary Statements:

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.
P261 - Avoid breathing gas.
P264 - Wash thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear eye protection/face protection.
P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

TF Lube

SDS Number: A230A

Revision Date: 9/4/2018

Page 2 of 12

P302 - IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
 P304+312 - IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.
 P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
 P308+313 - IF exposed or concerned: Get medical advice/attention.
 P309 + P311 - IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
 P337 + P313 - If eye irritation persists: Get medical advice/attention.
 P403+233 - Store in a well ventilated place. Keep container tightly closed.
 P405 - Store locked up.
 P410+412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F
 P501 - Dispose of contents/container in accordance with local/regional/national/international/regulations.

Hazards not Otherwise Classified (HNOC) or not Covered by GHS

Route of Entry: Inhalation, ingestion, eye, skin
Target Organs: May cause drowsiness and dizziness.
Inhalation: May cause drowsiness and dizziness. Headache. Nausea, vomiting.
Skin Contact: No adverse effects expected.
Eye Contact: Causes serious eye irritation.
Ingestion: Aspiration into the lungs can cause serious chemical pneumonia.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Ingredients		
CAS#	%	Chemical Name
106-97-8	20-40%	Butane
74-98-6	20-40%	Propane
67-64-1	10-20%	Acetone
64742-49-0	10-20%	Naphtha, petroleum, hydrotreated light
64-17-5	2.5-10%	Ethyl alcohol
142-82-5	2.5-10%	Heptane
108-87-2	0.1-1%	Methylcyclohexane

Other components below reportable levels

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

4 FIRST AID MEASURES

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin Contact: Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion: Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects are: Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness, Headache, Nausea, vomiting. Severe eye irritation Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information: Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

TF Lube

SDS Number: A230A

Revision Date: 9/4/2018

Page 3 of 12

5

FIRE FIGHTING MEASURES

Flammability:	Extremely flammable
Flash Point:	-156.0 F (-104.4°C) Propellant estimated
Autoignition Temp:	Not available
LEL:	2% estimated
UEL:	9.6% estimated

Extinguishing media: Alcohol resistant foam. Powder. Carbon dioxide (CO₂). Do not use water jet as an extinguisher, as this will spread the fire.

Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from the fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.

Extremely flammable aerosol.

6

ACCIDENTAL RELEASE MEASURES

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing gas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Refer to attached safety data sheets an/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent entry into waterways, sewer, basements or confined areas. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

Avoid release into the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7

HANDLING AND STORAGE

Handling Precautions: Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Avoid breathing gas. Avoid contact with eyes. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release into the environment. Observe good industrial

TF Lube

SDS Number: A230A

Revision Date: 9/4/2018

Page 4 of 12

hygiene practices.

Level 3 Aerosol.

Storage Requirements:

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/ 122°F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store away from incompatible materials (see Section 10 of the SDS).

Level 3 Aerosol.

8	EXPOSURE CONTROLS/PERSONAL PROTECTION
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Engineering Controls:

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

Personal Protective Equipment:

HMIS PP, B | Goggles, Gloves

Respiratory Protection: If permissible levels are exceeded use NIOSH mechanical filter/organic vapor cartridge or an air-supplied respirator.

Protective gloves: Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

Eye protection: Safety glasses with side shields/chemical proof goggles.

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Wear appropriate thermal protective clothing, when necessary.

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Butane cas#:(106-97-8) [20-40%]

Components with workplace control parameters

TWA	800 ppm 1,900 mg/m ³	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
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TWA	1,000 ppm	USA. ACGIH Threshold Limit Values (TLV)
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TWA	1,000 ppm	USA. ACGIH Threshold Limit Values (TLV)
Central Nervous System impairment Cardiac sensitization		

TWA	800 ppm 1,900 mg/m ³	USA. NIOSH Recommended Exposure Limits
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Also see specific listing for Isobutane.

Propane cas#:(74-98-6) [20-40%]

Components with workplace control parameters

TF Lube

SDS Number: A230A

Revision Date: 9/4/2018

Page 5 of 12

TWA 1,000 ppm USA. ACGIH Threshold Limit Values
(TLV)

Central Nervous System impairment
Cardiac sensitization

TWA 1,000 ppm USA. Occupational Exposure Limits
1,800 mg/m³ (OSHA) - Table Z-1 Limits for Air
Contaminants

The value in mg/m³ is approximate.

TWA 1,000 ppm USA. OSHA - TABLE Z-1 Limits for
1,800 mg/m³ Air Contaminants - 1910.1000

TWA 1,000 ppm USA. NIOSH Recommended
1,800 mg/m³ Exposure Limits

Acetone cas#:(67-64-1) [10-20%]

Components with workplace control parameters

TWA 500 ppm USA. ACGIH Threshold Limit Values
(TLV)

Eye & Upper Respiratory Tract irritation
Central Nervous System impairment
Hematologic effects
Substances for which there is a Biological Exposure Index or Indices
(see BEI section)
Not classifiable as a human carcinogen

STEL 750 ppm USA. ACGIH Threshold Limit Values
(TLV)

Eye & Upper Respiratory Tract irritation
Central Nervous System impairment
Hematologic effects
Substances for which there is a Biological Exposure Index or Indices
(see BEI section)
Not classifiable as a human carcinogen

STEL 1,000 ppm USA. OSHA - TABLE Z-1 Limits for
2,400 mg/m³ Air Contaminants - 1910.1000

The acetone STEL does not apply to the cellulose acetate fiber industry. It is in effect for all other sectors.

TWA 1,000 ppm USA. Occupational Exposure Limits
2,400 mg/m³ (OSHA) - Table Z-1 Limits for Air
Contaminants

The value in mg/m³ is approximate.

TWA 250 ppm USA. NIOSH Recommended
590 mg/m³ Exposure Limits

TWA 750 ppm USA. OSHA - TABLE Z-1 Limits for
1,800 mg/m³ Air Contaminants - 1910.1000

TF Lube

SDS Number: A230A

Revision Date: 9/4/2018

Page 6 of 12

Ethyl alcohol cas#:(64-17-5) [2.5-10%]

Components with workplace control parameters

TWA 1,000 ppm USA. ACGIH Threshold Limit Values
(TLV)

Upper Respiratory Tract irritation

Confirmed animal carcinogen with unknown relevance to humans

TWA 1,000 ppm USA. Occupational Exposure Limits
1,900 mg/m³ (OSHA) - Table Z-1 Limits for Air
Contaminants

The value in mg/m³ is approximate.

TWA 1,000 ppm USA. NIOSH Recommended
1,900 mg/m³ Exposure Limits

Heptane cas#:(142-82-5) [2.5-10%]

Components with workplace control parameters

TWA 85 ppm USA. NIOSH Recommended
350 mg/m³ Exposure Limits

C 440 ppm USA. NIOSH Recommended
1,800 mg/m³ Exposure Limits
15 minute ceiling value

TWA 500 ppm USA. Occupational Exposure Limits
2,000 mg/m³ (OSHA) - Table Z-1 Limits for Air
Contaminants

The value in mg/m³ is approximate.

TWA 400 ppm USA. OSHA - TABLE Z-1 Limits for
1,600 mg/m³ Air Contaminants - 1910.1000

STEL 500 ppm USA. OSHA - TABLE Z-1 Limits for
2,000 mg/m³ Air Contaminants - 1910.1000

TWA 400 ppm USA. ACGIH Threshold Limit Values
(TLV)

Central Nervous System impairment

Upper Respiratory Tract irritation

STEL 500 ppm USA. ACGIH Threshold Limit Values
(TLV)

Central Nervous System impairment

Upper Respiratory Tract irritation

Methylcyclohexane cas#:(108-87-2) [0.1-1%]

Components with workplace control parameters

TWA 400 ppm USA. ACGIH Threshold Limit Values (TLV)

Central Nervous System impairment Upper Respiratory Tract irritation Liver & kidney damage

TF Lube

SDS Number: A230A

Revision Date: 9/4/2018

Page 7 of 12

TWA 400 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants -
1,600 mg/m3 1910.1000

TWA 500 ppm USA. Occupational Exposure Limits (OSHA) - Table Z- 1
2,000 mg/m3 Limits for Air Contaminants

The value in mg/m3 is approximate.

TWA 400 ppm USA. NIOSH Recommended Exposure Limits
1,600 mg/m3

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Aerosol	Flash Point:	-156.0°F (-104.4°C) Propellant estimated
Physical State:	Gas	Auto-Ignition Temp:	Not available
Spec Grav./Density:	Not available	UFL/LFL:	9.6% / 2%
Boiling Point:	132.89 F (56.05°C) estimated		
Vapor Pressure:	60-80 psig @ 20°C estimated		

10 STABILITY AND REACTIVITY

Reactivity: This product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical Stability: Material is stable under normal conditions.
Conditions to Avoid: Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Materials to Avoid: Strong oxidizing agents. Nitrates. Fluorine. Chlorine
Hazardous Decomposition: No hazardous decomposition products are known.
Hazardous Polymerization: Will not occur.

11 TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Ingestion Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.
Inhalation May cause drowsiness and dizziness. Headache. Nausea, vomiting.
Skin Contact No adverse effects due to skin contact are expected.
Eye Contact Causes serious eye irritation.

Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness, Headache, Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Acute Toxicity: May be fatal if swallowed and enters airways. Narcotic effects.

Data summary for the components are as follows:

Acetone (CAS 67-64-1)
Dermal LD50 >7426 mg/kg, 24 hours (Guinea pig)
LD50 9.4 ml/kg, 24 hours (Guinea pig)
LD50 >7426 mg/kg, 24 hours (Rabbit)
LD50 9.4 ml/kg, 24 hours (Rabbit)
Inhalation LC50 55700 ppm, 3 hours (Rat)
LC50 132 mg/l, 3 hours (Rat)
Oral LD50 5800 mg/kg (Rat)
LD50 2.2 ml/kg (Rat)

TF Lube

SDS Number: A230A

Revision Date: 9/4/2018

Page 8 of 12

Butane (CAS 106-97-8)

Acute

Inhalation LC50 1237 mg/l, 120 mins. (Mouse)
LC50 52%, 120 minutes (Mouse)
LC50 1355 mg/l (Rat)

Ethyl Alcohol (CAS 64-17-5)

Acute

Inhalation LC50 85.41 mg/l, 4.5 hrs (Cat)
LC50 43.68 mg/l, 6 hrs (Cat)
LC50 >60000ppm (Mouse)
LC50 79.43 mg/l, 134 minutes (Mouse)
LC50 >115.9 mg/l, 4 hrs (Rat)
LC50 51.3 mg/l, 6hrs. (Rat)

Oral LD50 6000 mg/kg (Monkey)
LD50 10500 ml/kg (Mouse)
LD50 >5000 mg/kg (Pig)
LD50 10470 mg/kg (Rat)
LD50 7800 ml/kg (Rat)

Methylcyclohexane (CAS 108-87-2)

Acute

Dermal LD50 >2000 mg/kg, 24 hrs. (Rabbit)

Inhalation
Vapor
LC100 59.9 mg/l (Rabbit)
LC50 >4701 ppm (Dog)
LC50 >16.3 mg/l (Dog)
LC50 >6564 ppm (Mouse)
LC50 >26.3 mg/l (Mouse)
LC50 >6564 ppm (Rat)
LC50 >26.3 mg/l (Rat)
LC50 16 mg/l, 4 hrs (Rat)

Naphtha,(Petroleum), Hydrotreated Light (CAS 64742-49-0)

Acute

Dermal LD50 >9.4 ml/kg, 24 hrs (Guinea pig;Rabbit)
LD50 >1900 mg/kg, 24 hrs (Rabbit)

Inhalation LC50 >5000 mg/m³, 4 hrs (Rat)
LC50 >49802 mg/m³ (Rat)
LC50 >4980 mg/m³, 4 hrs (Rat)
LC50 4.96 mg/l, 4 hrs (Rat)
LC50 13700 ppm, 4 hrs. (Rat)

Oral LD50 4820 mg/kg (Rat)

Heptane (CAS 142-82-5)

Dermal LD50 >2000 mg/kg, 24 hours (Rabbit)

Inhalation LC50 >29.29 mg/l, 4 hours (Rat)

Oral LD50 >5000 mg/kg (Rat)

Propane (CAS 74-98-6)

Acute

Inhalation LC50 1237 mg/l, 120 minutes (Mouse)
LC50 52%, 120 minutes (Mouse)
LC50 1355 mg/l (Rat)
LC50 658 mg/l/4h (Rat)

TF Lube

SDS Number: A230A

Revision Date: 9/4/2018

Page 9 of 12

Prolonged skin contact may cause temporary irritation.
 Product causes serious eye irritation.
 Product is not a respiratory sensitizer.
 Product is not expected to cause skin sensitization.
 The risk of cancer cannot be excluded with prolonged exposure.

Product is not expected to cause reproductive or developmental effects.
 May cause drowsiness and dizziness.

May be fatal if swallowed and enters airways.
 Prolonged exposure may cause chronic effects.

12	ECOLOGICAL INFORMATION
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Ecotoxicity Toxic to aquatic life with long lasting effects.

Acetone (CAS 67-64-1)

Aquatic

Crustacea EC50 21.6-23.9 mg/l, 48 hours Water flea (*Daphnia magna*)

Fish LC50 4740-6330 mg/l, 96 hours Rainbow trout, donaldson trout (*Oncorhynchus mykiss*)

Ethyl Alcohol (CAS 64-17-5)

Aquatic

Crustacea EC50 7700-11200 mg/l, 48 hrs Water flea (*Daphnia magna*)

Fish LC50 >100.1 mg/l, 96 hrs Fathead minnow (*Pimephales promelas*)

Methylcyclohexane (CAS 108-87-2)

Aquatic

Fish LC50 5.8 mg/l, 96hrs Striped bass (*Morone saxatilis*)

Heptane (CAS 142-82-5)

Aquatic

Fish LC50 375 mg/l, 96hours Mozambique tilapia (*Tilapia mossambica*)

No data is available on the degradability or bioaccumulative potential of this product.

Partition coefficient n-octanol/water (log Kow)

Acetone -0.24

Butane 2.89

Ethyl Alcohol -0.31

Methylcyclohexane 3.61

n-Heptane 4.66

Propane 2.36

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

13	DISPOSAL CONSIDERATIONS
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Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not

TF Lube

SDS Number: A230A

Revision Date: 9/4/2018

Page 10 of 12

puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

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

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see Disposal instructions).

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

14	TRANSPORT INFORMATION
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DOT

UN number	UN1950
UN proper shipping name	Aerosols, flammable, (each not exceeding 1 L capacity)
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not applicable
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	N82
Packaging exceptions	306
Packaging non bulk	None
Packaging bulk	None

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity until 12/31/2020, the "Consumer Commodity-ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking.

IATA

UN number	UN1950
UN proper shipping name	Aerosols, flammable
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not applicable
Environmental hazards	Yes
ERG Code	10L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo Aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.
Packaging exceptions	LTD QTY

IMDG

UN number	UN1950
UN proper shipping name	AEROSOLS

TF Lube

SDS Number: A230A

Revision Date: 9/4/2018

Page 11 of 12

Transport hazard class(es)
 Class 2.1
 Subsidiary risk -
 Label(s) None
 Packing group Not applicable
 Environmental hazards
 Marine pollutant Yes
 EmS F-D, S-U
 Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
 Packaging exceptions LTD QTY
 Transport in bulk according to AnnexII of MARPOL 73/78 and the IBC Code Not applicable.

15	REGULATORY INFORMATION
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Component (CAS#) [%] - CODES

 Butane (106-97-8) [20-40%] MASS, NJHS, OSHAWAC, PA, TSCA, TXAIR

Propane (74-98-6) [20-40%] MASS, NJHS, OSHAWAC, PA, TSCA, TXAIR

RQ(5000LBS), Acetone (67-64-1) [10-20%] CERCLA, HAP, MASS, NJHS, OSHAWAC, PA, TOXICRCRA, TSCA, TXAIR, TXHWL

Naphtha, petroleum, hydrotreated light (64742-49-0) [10-20%] TSCA

Ethyl alcohol (64-17-5) [2.5-10%] MASS, OSHAWAC, PA, TSCA, TXAIR

Heptane (142-82-5) [2.5-10%] MASS, OSHAWAC, PA, TSCA, TXAIR

Methylcyclohexane (108-87-2) [0.1-1%] HAP, MASS, OSHAWAC, PA, TSCA, TXAIR

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

Carcinogenic substance: Benzene (CAS 71-43-2)
 Ethyl Benzene (CAS 100-41-4)

Developmental Toxin: Benzene (CAS 71-43-2)
 Toluene (CAS 108-88-3)

Reproductive Toxin: Benzene (CAS 71-43-2)

Regulatory CODE Descriptions

 RQ = Reportable Quantity
 MASS = MA Massachusetts Hazardous Substances List
 NJHS = NJ Right-to-Know Hazardous Substances
 OSHAWAC = OSHA workplace Air Contaminants
 PA = PA Right-To-Know List of Hazardous Substances
 TSCA = Toxic Substances Control Act
 TXAIR = TX Air Contaminants with Health Effects Screening Level
 CERCLA = Superfund clean up substance
 HAP = Hazardous Air Pollutants
 TOXICRCRA = RCRA Toxic Hazardous Wastes (U-List)
 TXHWL = TX Hazardous Waste List

TF Lube

SDS Number: A230A

Revision Date: 9/4/2018

Page 12 of 12

16

OTHER INFORMATION

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

N/A = Not available N/D = Not determined