

# SAFETY DATA SHEET

## SECTION 1 - IDENTIFICATION

Product Identifier: TFE LUBE  
Recommended Use: AEROSOL LUBRICANT  
Restrictions on Use: INDUSTRIAL OR PROFESSIONAL USE ONLY  
Supplier: SHARE CANADA  
Address: 1691 CHURCH AVENUE, WINNIPEG, MANITOBA R2X 2Y7  
Telephone Number: (204) 633-8553 Fax: (204) 633-8453  
Emergency telephone number: CANUTEC: (613) 996-6666

## SECTION 2 - HAZARDS IDENTIFICATION

WHMIS 2015 hazard classification: FLAMMABLE AEROSOL, GAS UNDER PRESSURE, SKIN, EYE AND RESPIRATORY IRRITANT, REPRODUCTIVE HAZARD. ASPIRATION TOXIC.

Hazard pictograms:



Signal word: DANGER  
Hazard statement(s): EXTREMELY FLAMMABLE AEROSOL, PRESSURIZED CONTAINER MAY BURST IF HEATED. HARMFUL OR FATAL IF SWALLOWED AND ENTERS AIRWAYS. CAUSES SKIN IRRITATION AND SERIOUS EYE IRRITATION.  
Precautionary statements: KEEP OUT OF THE REACH OF CHILDREN. READ THE LABEL BEFORE USE. KEEP AWAY FROM HEAT, HOT SURFACES, SPARKS, OPEN FLAMES AND OTHER IGNITION SOURCES. NO SMOKING. WEAR PROTECTIVE GLOVES/ PROTECTIVE CLOTHING, FACE AND EYE PROTECTION. DO NOT SPRAY ON AN OPEN FLAME OR OTHER IGNITION SOURCE. DO NOT PIERCE OR BURN, EVEN AFTER USE. WASH THOROUGHLY AFTER HANDLING.  
First aid measures:  
Skin contact: WASH WITH PLENTY OF SOAP AND WATER. IF SKIN IRRITATION OCCURS, GET MEDICAL ADVICE / ATTENTION.  
Eye contact: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES IF PRESENT AND EASY TO DO SO. CONTINUE RINSING. IF EYE IRRITATION OCCURS, GET MEDICAL ADVICE / ATTENTION.  
Ingestion: IMMEDIATELY CALL A POISON CONTROL CENTRE OR DOCTOR. DO NOT INDUCE VOMITING.  
Storage: KEEP COOL. STORE IN A WELL-VENTILATED PLACE. STORE LOCKED UP. PROTECT FROM SUNLIGHT. DO NOT EXPOSE TO TEMPERATURES EXCEEDING 50 C.  
Disposal: DISPOSE OF CONTENTS AND CONTAINER IN ACCORDANCE WITH LOCAL, REGIONAL AND NATIONAL REGULATIONS.

## SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS REGISTRY NUMBER	CONCENTRATION %
N-HEPTANE	142-82-5	48 – 85 %
PROPANE	74-98-6	8 – 17 %
BUTANE	106-97-8	4 – 9 %L
ISOBUTANE	78-28-5	2 – 5 %

## SECTION 4 – FIRST AID MEASURES

Inhalation: REMOVE SOURCE OF EXPOSURE OR MOVE PERSON TO FRESH AIR AND KEEP COMFORTABLE FOR BREATHING. IF EXPOSED/FEEL UNWELL/CONCERNED: CALL A POISON CONTROL CENTRE. ELIMINATE ALL IGNITION SOURCES IF SAFE TO DO.  
Eye contact: REMOVE SOURCE OF EXPOSURE OR MOVE PERSON TO FRESH AIR. RINSE EYES CAUTIOUSLY WITH LUKEWARM, GENTLY FLOWING WATER FOR SEVERAL MINUTES, WHILE HOLDING THE EYELIDS OPEN. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING FOR A DURATION OF 15-20 MINUTES. TAKE CARE NOT TO RINSE CONTAMINATED WATER INTO THE UNAFFECTED EYE OR ONTO THE FACE. IF EYE IRRITATION PERSISTS: GET MEDICAL ADVICE/ATTENTION.  
Skin contact: TAKE OFF CONTAMINATED CLOTHING, SHOES AND LEATHER GOODS (E.G. WATCHBANDS, BELTS). WASH WITH PLENTY OF LUKEWARM, GENTLY FLOWING WATER FOR A

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DURATION OF 15-20 MINUTES. IF SKIN IRRITATION OCCURS: GET MEDICAL ADVICE/ATTENTION. STORE CONTAMINATED CLOTHING UNDER WATER AND WASH BEFORE REUSE OR DISCARD. Ingestion: RINSE MOUTH. DO NOT INDUCE VOMITING. IMMEDIATELY CALL A POISON CONTROL CENTRE OR DOCTOR. IF VOMITING OCCURS NATURALLY, LIE ON YOUR SIDE, IN THE RECOVERY POSITION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING VICTIM. KEEP PERSON WARM AND QUIET.

## SECTION 5 – FIRE FIGHTING MEASURES

Suitable extinguishing media: USE WATER, FOG, DRY CHEMICAL OR CARBON DIOXIDE.

Unsuitable extinguishing media: WATER MAY BE INEFFECTIVE BUT CAN BE USED TO COOL CONTAINERS EXPOSED TO HEAT OR FLAME.

Special hazards in case of fire: CONTENTS UNDER PRESSURE. KEEP AWAY FROM IGNITION SOURCES AND OPEN FLAMES. EXPOSURE OF CONTAINERS TO EXTREME HEAT AND FLAMES CAN CAUSE THEM TO RUPTURE OFTEN WITH VIOLENT FORCE. AEROSOL CANS MAY RUPTURE WHEN HEATED. HEATED CANS MAY BURST. IN FIRE, WILL DECOMPOSE TO CARBON DIOXIDE, CARBON MONOXIDE.

Firefighting instructions: ISOLATE IMMEDIATE HAZARD AREA AND KEEP UNAUTHORIZED PERSONNEL OUT. STOP SPILL/RELEASE IF IT CAN BE DONE SAFELY. MOVE UNDAMAGED CONTAINERS FROM IMMEDIATE HAZARD AREA IF IT CAN BE DONE SAFELY. WATER SPRAY MAY BE USEFUL IN MINIMIZING OR DISPERSING VAPOURS AND TO PROTECT PERSONNEL. DISPOSE OF FIRE DEBRIS AND CONTAMINATED EXTINGUISHING WATER IN ACCORDANCE WITH OFFICIAL REGULATIONS.

Protection during firefighting: WEAR PROTECTIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS (SCBA) AND FULL TURNOUT GEAR. CARE SHOULD ALWAYS BE TAKEN IN DUST/ MIST AREAS.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

Emergency procedures: FLAMMABLE/ COMBUSTIBLE MATERIAL. ELIMINATE ALL IGNITION SOURCES (NO SMOKING, FLARES, SPARKS OR FLAMES IN IMMEDIATE AREA). STAY UPWIND, KEEP OUT OF LOW AREAS. IMMEDIATELY TURN OFF OR ISOLATE IGNITIONS SOURCES. KEEP UNNECESSARY PEOPLE AWAY. ISOLATE HAZARD AREA AND DENY ENTRY. DO NOT TOUCH OR WALK THROUGH SPILLED MATERIAL. CLEAN UP IMMEDIATELY. USE ABSORBENT SWEEPING COMPOUND TO SOAK UP SPILLED MATERIAL AND PUT INTO SUITABLE CONTAINER FOR PROPER DISPOSAL.

Recommended equipment: WEAR SAFETY GLASSES AND GLOVES.

Personal precautions: ELIMINATE ALL IGNITION SOURCES (NO SMOKING, FLARES, SPARKS OR FLAMES IN IMMEDIATE AREA). USE EXPLOSION PROOF EQUIPMENT. AVOID BREATHING VAPOUR. AVOID CONTACT WITH SKIN, EYE OR CLOTHING. DO NOT TOUCH DAMAGED CONTAINERS OR SPILLED MATERIALS UNLESS WEARING APPROPRIATE PROTECTIVE CLOTHING.

Environmental precautions: STOP SPILL/ RELEASE IF IT CAN BE DONE SAFELY. PREVENT SPILLED MATERIAL FROM ENTERING SEWERS, STORM DRAINS, OTHER UNAUTHORIZED DRAINAGE SYSTEMS AND NATURAL WATERWAYS BY USING SAND, EARTH, OR OTHER APPROPRIATE BARRIERS.

## SECTION 7 – HANDLING AND STORAGE

FOR INDUSTRIAL AND INSTITUTIONAL USE ONLY. FOR USE BY TRAINED PERSONNEL ONLY. KEEP AWAY FROM CHILDREN. WASH HANDS AFTER USE. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. DO NOT BREATHE VAPOURS OR MISTS. USE GOOD PERSONAL HYGIENE PRACTICES. EATING, DRINKING AND SMOKING IN WORK AREAS IS PROHIBITED. REMOVE CONTAMINATED CLOTHING AND PROTECTIVE EQUIPMENT BEFORE ENTERING EATING AREAS. EYEWASH STATIONS AND SHOWERS SHOULD BE AVAILABLE IN AREAS WHERE THIS MATERIAL IS USED AND STORED.

Ventilation requirements: USE IN A WELL-VENTILATED PLACE. VENTILATION SHOULD BE SUFFICIENT TO PREVENT INHALATION OF ANY VAPOURS.

Storage Room Requirements: KEEP CONTAINER(S) TIGHTLY CLOSED AND PROPERLY LABELED. STORE IN COOL, DRY, WELL-VENTILATED AREAS AWAY FROM HEAT, DIRECT SUNLIGHT AND

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INCOMPATIBILITIES. STORE IN APPROVED CONTAINERS AND PROTECT AGAINST PHYSICAL DAMAGE. KEEP CONTAINERS SECURELY SEALED WHEN NOT IN USE. INDOOR STORAGE SHOULD MEET APPROPRIATE FIRE CODES. CONTAINERS THAT HAVE BEEN OPENED MUST BE CAREFULLY RESEALED TO PREVENT LEAKAGE. EMPTY CONTAINER RETAIN RESIDUE AND MAY BE DANGEROUS. DO NOT CUT, DRILL, GRIND, WELD, OR PERFORM SIMILAR OPERATIONS ON OR NEAR CONTAINERS. DO NOT PRESSURIZE CONTAINERS TO EMPTY THEM. GROUND ALL STRUCTURES, TRANSFER CONTAINERS AND EQUIPMENT TO CONFORM TO THE NATIONAL ELECTRICAL CODE. USE PROCEDURES THAT PREVENT STATIC ELECTRICAL SPARKS. STATIC ELECTRICITY MAY ACCUMULATE AND CREATE A FIRE HAZARD. STORE AT TEMPERATURES BELOW 50°C.

## SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

BUTANE (106-97-8)	
ACGIH TWA (ppm) 1000 ppm	
ISOBUTANE (75-28-5)	
ACGIH TWA (ppm) 1000 ppm	
N-HEPTANE	
ACGIH TWA (ppm) 400 ppm	ACGIH STEL (mg/m3) 1640
ACGIH STEL (ppm) 500 ppm	ACGIH STEL (mg/m3) 2060

Personal protective equipment:

GLOVES, SAFETY GLASSES. PROTECTIVE CLOTHING.



## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	AEROSOL
Colour and appearance:	NO DATA AVAILABLE
Odour:	NO DATA AVAILABLE
Odour threshold:	NO DATA AVAILABLE
pH:	NO DATA AVAILABLE
Melting point:	NO DATA AVAILABLE
Freezing point:	NO DATA AVAILABLE
High boiling point:	100 ° C
Low boiling point:	- 17.78 ° C
Flash point:	BELOW 22.7 ° C
Evaporation rate:	SLOWER THAN ETHER
Flammability (solid, gas):	NO DATA AVAILABLE
Lower explosive level:	1.8 %
Upper explosive level:	9.5 %
Oxidizing properties:	NO DATA AVAILABLE
Vapour density:	43.698434 lb/gal
Relative vapour density at 20 °C:	NO DATA AVAILABLE
Water solubility:	NIL
Log Pow:	NO DATA AVAILABLE
Log Kow:	NO DATA AVAILABLE
Auto-ignition temperature:	NO DATA AVAILABLE
Decomposition point:	0
Viscosity:	NO DATA AVAILABLE
Viscosity, kinematic:	NO DATA AVAILABLE
Viscosity, dynamic:	NO DATA AVAILABLE
VOC actual:	43.698434 lb/gal

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% VOC: 99.41125%  
Density: 43.95713 lb/gal

## SECTION 10 - STABILITY AND REACTIVITY

Stability: STABLE

Conditions to avoid: HIGH TEMPERATURES

Incompatible materials: NONE KNOWN

Hazardous decomposition products: IN FIRE WILL DECOMPOSE TO CARBON DIOXIDE, CARBON MONOXIDE.

## SECTION 11 – TOXICOLOGICAL INFORMATION

Skin corrosion/irritation: OVEREXPOSURE WILL CAUSE DEFATTING OF THE SKIN  
Serious eye damage/irritation: OVEREXPOSURE WILL CAUSE REDNESS AND BURNING SENSATION  
Respiratory or skin sensitization: NO DATA AVAILABLE  
Germ cell mutagenicity: NO DATA AVAILABLE  
Carcinogenicity: NO DATA AVAILABLE  
Reproductive toxicity: NO DATA AVAILABLE  
Specific target organ toxicity (single exposure): NO DATA AVAILABLE  
Specific target organ toxicity (repeated exposure): NO DATA AVAILABLE  
Aspiration hazard: MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAY  
Acute toxicity: INHALATION: EFFECT OF OVEREXPOSURE INCLUDE IRRITATION OF RESPIRATORY TRACT, HEADACHE, DIZZINESS, NAUSEA, AND LOSS OF COORDINATION. EXTREME OVEREXPOSURE MAY RESULT IN UNCONSCIOUSNESS AND POSSIBLY DEATH.

42-82-5 N-HEPTANE. - LC50 (rat): approximately 25000 ppm (4-hour exposure); cited as 103 g/m<sup>3</sup> (4-hour exposure) (6) LD50 (oral, rat): Greater than 15000 mg/kg (4)  
75-28-5 ISOBUTANE. - LC50 (mouse, inhalation): 520,000 ppm (52%); 2-hour exposure.(4)  
106-97-8 BUTANE - LC50 (mouse): 202000 ppm (481000 mg/m<sup>3</sup>) (4-hour exposure); cited as 680 mg/L (2-hour exposure) (9) LC50 (rat): 276000 ppm (658000 mg/m<sup>3</sup>) (4-hour exposure); cited as 658 mg/L (4- hour exposure) (9)

Potential Health Effects – Miscellaneous: 142-82-5 N-HEPTANE: INCREASED SUSCEPTIBILITY TO THE EFFECTS OF THIS MATERIAL MAY BE OBSERVED IN PEOPLE WITH PRE-EXISTING DISEASE OF ANY OF THE FOLLOWING: CENTRAL NERVOUS SYSTEM, RESPIRATORY SYSTEM, SKIN. MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS SUCH AS DIZZINESS, HEADACHE, NAUSEA, AND LOSS OF CONSCIOUSNESS. LABORATORY STUDIES WITH RATS HAVE SHOWN THAT PETROLEUM DISTILLATES CAN CAUSE KIDNEY DAMAGE AND KIDNEY OR LIVER TUMORS. THESE EFFECTS WERE NOT SEEN IN SIMILAR STUDIES WITH GUINEA PIGS, DOGS, OR MONKEYS. SEVERAL STUDIES EVALUATING PETROLEUM WORKERS HAVE NOT SHOWN A SIGNIFICANT INCREASE OF KIDNEY DAMAGE OR AN INCREASE IN KIDNEY OR LIVER TUMORS. ASPIRATION MAY OCCUR DURING SWALLOWING OR VOMITING, RESULTING IN LUNG DAMAGE.

## SECTION 12 - ECOLOGICAL INFORMATION

Ecology (General): NO ADDITIONAL INFORMATION AVAILABLE  
Persistence and degradability: NO ADDITIONAL INFORMATION AVAILABLE  
Bioaccumulation potential: NO ADDITIONAL INFORMATION AVAILABLE

## SECTION 13 – DISPOSAL CONSIDERATIONS

Waste disposal recommendations: IT IS THE RESPONSIBILITY OF THE USER OF THE PRODUCT, TO DETERMINE AT THE TIME OF DISPOSAL WHETHER THE PRODUCT MEETS CRITERIA FOR HAZARDOUS WASTE. WASTE MANAGEMENT SHOULD BE IN FULL COMPLIANCE WITH FEDERAL, PROVINCIAL, AND LOCAL LAWS. EMPTY CONTAINERS RETAIN PRODUCT RESIDUE WHICH MAY EXHIBIT HAZARDS OF MATERIAL, THEREFORE DO NOT PRESSURIZE, CUT, GLAZE, WELD OR USE FOR ANY OTHER PURPOSES.

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**SECTION 14 – TRANSPORT INFORMATION**

T.D.G. Shipping Name: AEROSOLS, FLAMMABLE Class: 2.1. UN 1950  
Limited quantity exemption: CONTAINER UNDER 1 LITRE.

**SECTION 15 - REGULATORY INFORMATION**

THE CLASSIFICATION, LABEL AND SDS COMPLIES WITH THE REQUIREMENTS OF WHMIS 2015

**SECTION 16 - OTHER INFORMATION**

Information Sources: SUPPLIER'S SDS  
Prepared by: SHARE CANADA  
Telephone: 1-204-633-8553  
Latest revision date: AUGUST 24, 2022