

MATERIAL SAFETY DATA SHEET

(CONFORMS TO THE REQUIREMENTS OF)
29CFR 1910.1200**PROPANE**DATE OF PREPARATION: **FEBRUARY 1, 1993**

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SECTION I

MANUFACTURER'S NAME: COOPER HAND TOOLS/TURNER

STREET ADDRESS: 821 PARK AVENUE
SYCAMORE, ILLINOIS 60178

EMERGENCY RESPONSE TELEPHONE NO. (CHEM TREC): 800-424-9300

TELEPHONE NUMBER FOR INFORMATION: (815) 895-4545

SECTION II - IDENTITY

MANUFACTURER'S IDENTIFICATION NUMBERS: LP175
PT1600

IDENTITY (As Used On Label and List): PROPANE - LIQUEFIED PETROLEUM GAS

SYNONYMS: DIMETHYLMETHANE

CHEMICAL NAME: PROPANE

CHEMICAL FAMILY: PARAFFINIC HYDROCARBON

CHEMICAL FORMULA: C₃ H₈

D.O.T. HAZARD CLASS: FLAMMABLE GAS

D.O.T. IDENTIFICATION NUMBER: UN1978

IATA IDENTIFICATION NUMBER: UN1978

DEGREE OF HAZARD	
HEALTH	1
FIRE	4
REACTIVITY	0

SECTION III - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components	CAS #	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (percent)
PROPANE	74-98-6	1000 PPM	SIMPLE ASPHYXIANT		>90%
PROPYLENE	115-07-1	NE	SIMPLE ASPHYXIANT		< 5%
N-BUTANE	106-97-8	NE	800PPM		< 2.5%

COOPER

CooperTools

SECTION IV - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: - 44°F - 42°C

SPECIFIC GRAVITY (H₂O = 1): LIQUID @ 60°F /15.5°C 0.51

VAPOR PRESSURE: @ 130°F 300 PSIG 14.34 BARS

MELTING POINT: - 305°F / - 151°C

VAPOR DENSITY (AIR = 1): 1.52

EVAPORATION RATE (ETHYL ETHER = 1): <1

SOLUBILITY IN WATER: NEGLIGIBLE

APPEARANCE AND ODOR: CLEAR/PUNGENT ODOR (MERCAPTAN ADDITIVE)

SECTION V - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): - 156°F - 104°C ESTIMATED (CLOSED CUP)

FLAMMABLE LIMITS: % BY VOLUME IN AIR LEL: [2.1] UEL: [9.5]

EXTINGUISHING MEDIA: DRY CHEMICAL, FOAM OR CARBON DIOXIDE (CO₂)

SPECIAL FIRE FIGHTING PROCEDURES: EVACUATE AREA - USE NIOSH/MSHA APPROVED SELF-CONTAINED BREATHING APPARATUS. IF POSSIBLE, ALLOW FIRE TO BURN UNTIL GAS FLOW IS STOPPED. KEEP EXPOSED CONTAINER COOL WITH WATER FOG OR SPRAY.

UNUSUAL FIRE AND EXPLOSION HAZARDS: CARBON OXIDES FORMED WHEN BURNED. HIGHLY FLAMMABLE VAPORS WHICH ARE HEAVIER THAN AIR MAY ACCUMULATE IN LOW AREAS AND/OR SPREAD ALONG THE GROUND AWAY FROM HANDLING SITE.

SECTION VI - REACTIVITY DATA

STABILITY: Unstable [] Conditions to avoid: CYLINDER TEMPERATURE ABOVE 120°F, SPARKS, FLAME AND OTHER FORMS OF IGNITION.
Stable [XX]

INCOMPATIBILITY (Material to Avoid): CHLORINE AND OTHER STRONG OXIDIZERS

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: CARBON OXIDES FORMED WHEN BURNED

HAZARDOUS POLYMERIZATION: May Occur []
Will Not Occur [XX]

SECTION VII - HEALTH AND HAZARD DATA

ROUTE(S) OF ENTRY:

Inhalation? HIGH POSSIBILITY
Skin? LIQUEFIED GAS CAUSES FREEZE BURN
Ingestion? NOT A LIKELY EXPOSURE ROUTE

HEALTH HAZARDS (Acute and Chronic):

EXPOSURE TO 1000 PPM FOR 8 HOURS A DAY, 5 DAYS A WEEK, FOR APPROXIMATELY TWO WEEKS, PRODUCES NO ABNORMAL REACTIONS, INCLUDING CARDIAC, PULMONARY AND NEUROLOGIC FUNCTIONS, IN HUMANS. SIMPLE ASPHYXIANT, AND HAS ANESTHETIC ACTION IN HIGH CONCENTRATION. LIQUEFIED GAS CAN CAUSE FROSTBITE WHEN IT TOUCHES THE SKIN.

CARCINOGENICITY: NONE

NTP? N/A
IARC Monographs? N/A
OSHA Regulated? N/A

SIGNS AND SYMPTOMS OF EXPOSURE:

EXTREME OVER EXPOSURE CAN CAUSE DIZZINESS OR HEADACHE.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: RESPIRATORY PROBLEMS

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: Remove from exposure. If breathing ceases, administer artificial respiration followed by oxygen. Seek medical attention.

SKIN: Flush skin with water for 15 minutes. If irritation develops, seek medical attention.

EYE: Immediately flush eyes with running water for at least 15 minutes. If irritation develops, seek medical attention.

INGESTION: Seek immediate medical attention.

SECTION VIII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

EVACUATE AREA OF ALL UNNECESSARY PERSONNEL. REMOVE ALL SOURCES OF IGNITION. VENTILATE TO REMOVE FUMES. FLUSH LARGE SPILLS WITH WATER. RUN OFF TO SEWERS MAY CAUSE FIRE OR EXPLOSION.

WASTE DISPOSAL METHOD:

ALLOW SPILLS TO EVAPORATE. BE SURE TANKS ARE EMPTY THEN DISPOSE OF THEM IN NORMAL TRASH. DO NOT PUT IN COMPACTOR, PUNCTURE, CRUSH OR INCINERATE.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

DO NOT STORE OVER 120°F OR IN DIRECT SUNLIGHT. STORE AWAY FROM IGNITION SOURCE IN WELL VENTILATED AREA. DO NOT STORE IN LIVING AREA.

OTHER PRECAUTIONS:

POCKETS OF GAS HEAVIER THAN AIR MAY ACCUMULATE IN LOW AREAS AND/OR SPREAD ALONG THE GROUND AWAY FROM HANDLING SITE.

SECTION IX

RESPIRATORY PROTECTION: (Specify Type) NOT GENERALLY REQUIRED. WHEN NECESSARY, USE NIOS/MSHA APPROVED SELF-CONTAINED BREATHING APPARATUS (SCBA).

VENTILATION:

Local Exhaust:	NATURAL VENTILATION
Mechanical: (General)	EXPLOSION PROOF
Other:	NONE

PROTECTIVE GLOVES: STANDARD WORK GLOVES

EYE PROTECTION: CHEMICAL GOGGLES

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: WHEN SOLDERING, BRAZING, OR CUTTING USE GOGGLES WITH ANSI Z.87 #4 OR #5 LENSES

WORK/HYGIENIC PRACTICES: KEEP WORK AREAS FREE OF FLAMMABLE MATERIALS AND UNNECESSARY CLUTTER.

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