

# TURNER

TURNER INDUSTRIES, INC.  
821 Park Ave. 16016 Montoya  
Sycamore, IL Irwindale, CA  
60178 91706

CG

#1

## MATERIAL SAFETY DATA

SECTION I	MATERIAL IDENTIFICATION	NAME	PART NO.
MANUFACTURER'S NAME	CLEANWELD TURNER	PROPANE CYLINDER	PT-1600
ADDRESS (NUMBER, STREET, CITY, STATE, ZIP CODE)	821 Park Avenue Sycamore, IL 60178		
CHEMICAL NAME AND SYNONYMS		EMERGENCY TELEPHONE NO.	
Propane		815/895-4545	

CHEMICAL FAMILY	TRADE NAME AND SYNONYMS
Liquefied Petroleum Gas	Tempest 16 oz Propane Cylinder
CHEMICAL AND PHYSICAL PROPERTIES	FORMULA NUMBER
Net contents: 16 oz (454 g) or 8.6 cu ft (244l) at 60°F (15.5°C) & 1 ATM	C <sub>3</sub> H <sub>8</sub>

SECTION II	CHEMICAL AND PHYSICAL PROPERTIES	
MOLECULAR WT	BOILING POINT	MELTING POINT
44	-43 °F	-305 °F
VAPOR DENSITY (AIR=1)	VAPOR PRESSURE (MM HG)	SPECIFIC GRAVITY (WATER=1) BULK DENSITY
1.52	1.5 psig • -40 °F 92 psig • 60 °F 257 psig • 130 °F	• 51 • 60 °F
SOLUBILITY	ODOR/APPEARANCE	
6.5 VOL% / 100 VOL% H <sub>2</sub> O @ 64°F	Clear Odorless (Additive Mercaptan Strong Pungent)	
CORROSIVE ACTION ON MATERIALS (e.g. ALUMINUM, COPPER, IRON, STEEL, BRASS, ZINC, ETC.)		
Strong Solvent. Dissolves some plastics and rubbers		
DOES THE MATERIAL DECOMPOSE WHEN EXPOSED TO		
AIR	WATER	HEAT
<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> No
STRONG OXIDIZERS		
<input checked="" type="checkbox"/> No		
POSSIBLE PRODUCTS PRODUCED ON DECOMP.		
CO-CO <sub>2</sub> -H <sub>2</sub> O		

SECTION III	FLAMMABILITY AND EXPLOSIVE PROPERTIES	
CLOSED CUP FLASH POINT	IF FLASH POINT CHANGES DURING EVAPORATION GIVE DATA	
-156 °F	NA	
EXPLOSIVE LIMITS (BY VOL. IN AIR)	SUSCEPTIBILITY TO SPONTANEOUS HEATING	
LOWER 2.4 % UPPER 9.5 %	<input checked="" type="checkbox"/> No 920 °F	
WHAT PRODUCTS MIGHT BE FORMED IN THE EVENT OF PIPE OR ABNORMAL TEMPERATURES?		
Carbon Monoxide and Various Aldehydes		
UNUSUAL FIRE OR EXPLOSIVE HAZARDS		
Highly flammable - Heavy Gas		
SUITABLE EXTINGUISHING AGENTS		
Class "B" or "C" Extinguishers		

SECTION IV	COMPOSITION	
GIVE CHEMICAL NAMES OF COMPONENTS. IT IS IMPORTANT TO KNOW WHETHER ALCOHOL IS METHANOL! AN AROMATIC HYDROCARBON IS BENZENE, A CHLORINATED MATERIAL IS CARBON TETRACHLORIDE.		

**HAZARDOUS MATERIALS**  
Must include any ingredients which are regulated or otherwise controlled due to their hazardous or toxic nature

	% by Weight	Permissible Exposure Limit	Oxidizer	Toxic	Flammable	Combustible	Corrosive	Radioactive	Sensitizer	Magnetic	Irritant	CAS#
Propane	93.4	1000 ppm		X								
Ethane	5.6			X								74-98-6
Iso Butane	.72	"		X								75-28-5
Butane	.28	"		X								106-97-8

Regulated by and reference number: NIOSH TX 22750 PROPANE

SECTION V	HEALTH HAZARD DATA
PERMISSIBLE EXPOSURE LIMITS	
Not considered toxic @ air concentrations of 3.5%	
EFFECTS OF OVEREXPOSURE	
Simple asphyxiant and has anesthetic action in high concentrations. Freeze burns if liquid touches skin.	
EMERGENCY AND FIRST AID PROCEDURES	
Oxygen (after removal from exposure) if indicated. Caution of fire hazard in lungs advised. Treat burns as usual - symptomatic and supportive.	

SECTION VI	REACTIVITY DATA
STABILITY	CONDITIONS TO AVOID
UNSTABLE <input type="checkbox"/>	Cylinders - temperatures above 125°F
STABLE <input checked="" type="checkbox"/>	Gas flames, sparks, other sources of ignition.
INCOMPATIBILITY (INITIALS TO AVOID)	
Chlorine or highly oxidizing agents.	
HAZARDOUS DECOMPOSITION PRODUCTS	
Complete combustion - none. Incomplete-CO and various other aldehydes	
HAZARDOUS POLYMERIZATION	CONDITIONS TO AVOID
MAY OCCUR <input type="checkbox"/>	
WILL NOT OCCUR <input checked="" type="checkbox"/>	

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SECTION VII ENVIRONMENTAL HAZARD - SPILL OR LEAK PROCEDURES

POTENTIAL AS A POLLUTANT

Gas - general hydrocarbon

Combustion products - CO and various aldehydes

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Extinguish all fires, eliminate sparking equipment, ventilate well

WASTE DISPOSAL METHOD

Allow spills to evaporate with adequate ventilation. Burn under controlled conditions using pressure regulator or control valve.

SECTION VIII

SPECIAL PROTECTION INFORMATION Not needed unless spill occurs.

RESPIRATORY PROTECTION (Specify type)

Chemical cartridge or airline

VENTILATION

LOCAL EXHAUST

Recommended

SPECIAL

Explosion proof

MECHANICAL (General)

OTHER

PROTECTIVE GLOVES (Type if required)

EYE PROTECTION

Chemical goggles

OTHER PROTECTIVE EQUIPMENT

SECTION IX

SHIPPING REGULATIONS FOR HAZARDOUS MATERIAL

A. IS THE ARTICLE SUBJECT TO SHIPPING REGULATION FOR HAZARDOUS MATERIAL UNDER EACH OF THE FOLLOWING MODES (1) REFER TO INSTRUCTIONS MATERIAL SAFETY DATA SECTION IX.

	YES	NO		YES	NO		YES	NO		YES	NO
RAIL	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BUS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PARCEL POST	<input checked="" type="checkbox"/>	<input type="checkbox"/>	UNITED PARCEL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
TRUCK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	AIR (2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WATER CARRIER	<input checked="" type="checkbox"/>	<input type="checkbox"/>			

IDMR IMCO CLASS 2

UN #1075

IMDG CODE PAGE 2070

TYPE OR CLASS DESCRIBED IN THE REGULATIONS

Flammable Gas

PROPER SHIPPING NAME (TRUE CHEMICAL OR OTHER NAME AS LISTED IN THE REGULATIONS)

Liquefied Petroleum Gas (Propane)

PACKAGING REQUIREMENTS AND SPEC. IF APPLICABLE

DOT 39 NRC

SIZE OR QUANTITY IN PACK

16 oz.

MAXIMUM QUANTITY OR GROSS WEIGHT LIMITS FOR FOLLOWING MODES

RAIL	none	BUS	can not be used
TRUCK	none	PARCEL POST	27.5 Kg.
WATER CARRIER	none	UNITED PARCEL	IATA Article #1023
AIR	300#		Packing note #200

MARKING REQUIREMENTS FOR OUTER CONTAINER

MODE	
RAIL	<input checked="" type="checkbox"/>
TRUCK	<input checked="" type="checkbox"/>
WATER CARRIER	<input checked="" type="checkbox"/>
AIR	<input checked="" type="checkbox"/>
BUS	<input type="checkbox"/>
PARCEL POST	<input checked="" type="checkbox"/>
UNITED PARCEL	<input checked="" type="checkbox"/>

MARKING CONTENTS:  
Liquefied petroleum gas. Inside containers comply with prescribed DOT regulations.  
THIS END UP

LABEL REQUIRED IF NOT EXEMPT

MODE	
RAIL	<input checked="" type="checkbox"/>
TRUCK	<input checked="" type="checkbox"/>
WATER CARRIER	<input checked="" type="checkbox"/>
AIR	<input checked="" type="checkbox"/>
BUS	<input type="checkbox"/>
PARCEL POST	<input checked="" type="checkbox"/>
UNITED PARCEL	<input checked="" type="checkbox"/>

LABEL  
FLAMMABLE GAS

C. SHIPPING PAPERS OR DOCUMENTS INFORMATION

CERTIFICATE REQUIRED  
CHARGED PRESSURE 200 psi typ. 95°F  
CUBIC INCH DISPLACEMENT OF PRESSURE VESSEL  
SPECIAL STOWAGE REQUIREMENT OR INSTRUCTION FOR CARRIER

See Section VI

YES	NO
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>

OTHER INFORMATION Cannot be shipped by bus or passenger air craft. Ship on passenger vessels as deck cargo only.  
Ship inlet end up.

PLACARDING REQUIREMENTS  
FLAMMABLE GAS

SECTION X

SPECIAL PRECAUTION & CONCLUSION

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Handle per 49 CFR 172.101

BY

TITLE

DATE

*Albert R. Taylor*  
MGR R.I.D.