

# MATERIAL SAFETY DATA SHEET

ESSENTIALLY SIMILAR TO O.S.H.A. FORM 20

DATE PREPARED 12-09-94  
DATA SHEET # :HP 004

HYDRO PRODUCTS  
1030 CALLE CORDILLERA #103  
SAN CLEMENTE, CA 92673

TEL. (800) 290-2442  
FAX (800) 291-2442

## SECTION 1 PRODUCT IDENTIFICATION

GENERAL OR GENERIC ID : ALIPHATIC HYDROCARBONS  
TRADE NAME AND SYNONYMS : HYDRO-FLAME INDUSTRIAL CUTTING FUEL  
HAZARD CLASSIFICATION : FLAMMABLE GAS UN 1954

## SECTION 2 HAZARDOUS COMPONENTS

CAS REGISTRY #	% W	CHEMICAL NAMES LISTED AS CARCINOGEN
74986		PROPANE (MAX) NO
74840		ETHANE (MAX) NO
115071		PROPYLENE (MAX) NO
1330-20-7		XYLENE NO
75285		ISO BUTANE NO
106978		NORMAL BUTANE NO
109-66-0		PENTANE NO
110-54-3		HEXANE NO

## SECTION 3 PHYSICAL DATA

BOILING POINT (DEG. F) : -40 TO 155  
VAPOR PRESSURE (@ 60 F) : 189 PSI  
VAPOR DENSITY (AIR = 1) : 2.4  
SOLUBILITY IN WATER : NEGLIGIBLE  
SPECIFIC GRAVITY (H<sub>2</sub>O = 1) : .514  
PERCENT VOLATILE BY VOLUME : 100  
EVAPORATION RATE (EITHER = 1) : .90  
PH = : NEUTRAL  
PERCENT SOLID BY WEIGHT : 0  
APPEARANCE : PRODUCT IS CLEAR WITH LITTLE OR NO COLOR.  
ODOR : CHARACTERISTIC ODOR.

## SECTION 4 FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED) : CLOSED CUP  
FLASH POINT : < 20 DEG. F  
FLAMMABLE LIMITS : 2.25 LEL / 9.4 UEL  
EXTINGUISHING MEDIA : REGULAR FORM, CARBON DIOXIDE OR DRY CHEMICAL

SPECIAL FIRE FIGHTING PROCEDURES: SELF CONTAINED BREATHING APPARATUS WITH FULL FACE PLATE.

UNUSUAL FIRE AND EXPLOSION HAZARDS : WATER MAY BE UNSUITABLE AS AN EXTINGUISHING MEDIA BUT HELPFUL IN KEEPING ADJACENT CONTAINERS COOL.

## SECTION 5 HEALTH HAZARD DATA

PERMISSIBLE EXPOSURE LIMIT : 8 HRS.  
THRESHOLD LIMIT VALUE : 600 P.P.M.  
PRIMARY ROUTES OF ENTRY : INHALATION; SKIN CONTACT; RESPIRATORY.

### EMERGENCY FIRST AID PROCEDURES

SKIN: WASH EXPOSED AREAS WITH SOAP AND WATER.  
EYES: FLUSH WITH WATER.  
IF INGESTED: DO NOT INDUCE VOMITING, SEEK MEDICAL ATTENTION.  
IF BREATHED: REMOVE TO FRESH AIR.

---

## SECTION 6 REACTIVITY DATA

HAZARDOUS POLYMERIZATION : WILL NOT OCCUR  
STABILITY : STABLE  
INCOMPATIBILITY : AVOID CONTACT WITH STRONG OXIDIZING AGENTS,  
STRONG ACIDS OR BASES AND SELECTED AMINES.  
HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION IN AIR MAY YIELD CO OR  
CO2.

---

## SECTION 7 SPILL OR LEAK PROCEDURES

ELIMINATE ALL IGNITION SOURCES.  
ALLOW VOLATILE PORTION TO EVAPORATE.  
ABSORB SMALL AMOUNTS WITH VERMICULITE, FLOOR ABSORBENT OR OTHER ABSORBENT  
MATERIAL.  
WASTE DISPOSAL METHOD : DISPOSE OF PRODUCT IN ACCORDANCE WITH APPLICABLE  
LOCAL RCRA HAZARDOUS WASTE # D001  
VOLATILE ORGANIC COMPOUND : 100%  
ANALYTICAL LB./GAL. : 4.26

---

## SECTION 8 SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION : SEE SECTION 4  
LOCAL EXHAUST : MAY BE REQUIRED  
PROTECTIVE GLOVES : REQUIRED / TYPE: IMPERMEABLE  
EYE PROTECTION : SAFETY GLASSES OR FACE SHIELD

---

## SECTION 9 SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING : USE PROTECTIVE GLOVES, APRONS  
AND EYE PROTECTION.  
OTHER PRECAUTIONS : EMPTY CONTAINERS MAY BE HAZARDOUS.

---

### DISCLAIMER OF EXPRESSED OR IMPLIED WARRANTIES

NO WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OF THIS DATA,  
THE RESULTS TO BE OBTAINED FROM THE USE OF THE MATERIAL, OR THE HAZARDS CONNECTED  
WITH SUCH USE. SINCE THE INFORMATION CONTAINED HEREIN MAY BE APPLIED UNDER  
CONDITIONS BEYOND OUR CONTROL AND WITH WHICH WE MAY BE UNFAMILIAR, AND SINCE  
DATA MADE AVAILABLE SUBSEQUENT TO THE DATE HEREOF MAY SUGGEST MODIFICATION OF  
THE INFORMATION, WE DO NOT ASSUME RESPONSIBILITY FOR THE RESULTS OF ITS USE. THIS  
INFORMATION IS FURNISHED ON THE CONDITION THAT THE PERSON RECEIVING IT SHALL MAKE  
HIS OWN DETERMINATION AS TO THE SUITABILITY OF THE MATERIAL FOR HIS PARTICULAR  
PURPOSE AND ON THE CONDITION THAT HE ASSUME THE RISK OF HIS USE.  
THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT AS OF THE DATE HEREOF. HOWEVER, NO  
WARRANTY OF MERCHANTABILITY, OR FITNESS FOR ANY USE, IS GRANTED HEREIN.