

# Material Safety Data Sheet

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## SECTION I - Material Identity

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|                        |               |
|------------------------|---------------|
| Item Name              |               |
| Part Number/Trade Name | PROPANE FUEL  |
| National Stock Number  | 3439005420531 |
| CAGE Code              | 5U939         |
| Part Number Indicator  | A             |
| MSDS Number            | 180299        |
| HAZ Code               | B             |

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## SECTION II - Manufacturer's Information

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|                   |                         |
|-------------------|-------------------------|
| Manufacturer Name | ACE HARDWARE CORP       |
| Street            | 21901 SOUTH CENTRAL AVE |
| City              | OAK BROOK               |
| State             | IL                      |
| Country           | US                      |
| Zip Code          | 60443                   |
| Emergency Phone   | 312-720-0600            |
| Information Phone | 312-720-0600            |

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## MSDS Preparer's Information

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|                            |         |
|----------------------------|---------|
| Date MSDS Prepared/Revised | 01JAN90 |
| Date of Technical Review   | 16MAR91 |
| Active Indicator           | Y       |

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## Alternate Vendors

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|                |                           |
|----------------|---------------------------|
| Vendor #1 Name | COOPER TOOLS INCORPORATED |
| Vendor #1 CAGE | 96508                     |

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**SECTION III - Physical/Chemical Characteristics**

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|                                   |   |
|-----------------------------------|---|
| Specification Number              | A-A-51128                               |
| Hazard Storage Compatibility Code | G2-G2                                   |
| Appearance/Odor                   | CLEAR/PUNGENT ODOR (MERCAPTAN ADDITIVE) |
| Boiling Point                     | -44F -42C                               |
| Melting Point                     | -305F/-151C                             |
| Vapor Pressure                    | 300PSIG                                 |
| Vapor Density                     | 1.52                                    |
| Specific Gravity                  | 0.51 @60F                               |
| Decomposition Temperature         | UNKNOWN                                 |
| Evaporation Rate                  | <1 (ETHYL ETHER = 1)                    |
| Solubility in Water               | NEGLIGIBLE                              |
| Percent Volatiles by Volume       | 100                                     |
| Chemical pH                       | N/K                                     |
| Corrosion Rate                    | UNKNOWN                                 |
| Container Pressure Code           | 4                                       |
| Temperature Code                  | 8                                       |
| Product State Code                | U                                       |

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**SECTION IV - Fire and Explosion Hazard Data**

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|                                  |  |
|----------------------------------|--|
| Flash Point                      | -156   |
| Flash Point Method               | UNK  |
| Lower Explosion Limit            | 2.1 %  |
| Upper Explosion Limit            | 9.5 %  |
| Extinguishing Media              | DRY CHEMICAL, FOAM OR CARBON DIOXIDE   |
| 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                             |
| Unusual Fire/Explosion Hazards   | KEEP EXPOSED CONTAINERS COOL WITH WATER FOG OR SPRAY. HIGHLY FLAMMABLE VAPORS WHICH ARE HEAVIER THAN AIR MAY ACCUMULATE IN LOW AEA AND/OR SPREAD TO REMOTE AREAS |

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**SECTION V - Reactivity Data**

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|                                    |   |
|------------------------------------|---|
| Stability                          | YES   |
| Stability Conditions to Avoid      | CYLINDER TEMPERATURES ABOVE 120F, SPARKS, FLAME AND OTHER FORMS OF IGNITION |
| Materials to Avoid                 | CHLORINE AND OTHER STRONG OXIDIZERS   |
| Hazardous Decomposition Products   | CARBON MONOXIDE, CARBON DIOXIDE   |
| Hazardous Polymerization           | NO  |
| Polymerization Conditions to Avoid | NONE. WILL NOT OCCUR  |
| LD50 - LD50 Mixture                | NONE SPECIFIED BY MANUFACTURER  |

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**SECTION VI - Health Hazard Data**

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|                                      |  |
|--------------------------------------|--|
| Route of Entry: Skin                 | YES  |
| Route of Entry: Ingestion            | NO   |
| Route of Entry: Inhalation           | YES  |
| Health Hazards - Acute and Chronic   | EXPOSURE TO 1000 PPM FOR 8 HOURS A DAY, 5 DAYS A WEEK, FOR APPROXIMATELY 2 WEEKS PRODUCES NO ABNORMAL REACTIONS IN HUMANS. SIMPLE ASPHYXIANT. HAS ANESTHETIC ACTION IN HIGH CONCENTRATIONS. LIQUIFIED GAS CAN CAUSE FROST BITE WHEN IT TOUCHES THE SKIN  |
| Carcinogenity: NTP                   | NO   |
| Carcinogenity: IARC                  | NO   |
| Carcinogenity: OSHA                  | NO   |
| Explanation of Carcinogenity         | PRODUCT CONTAINS NO MATERIALS CURRENTLY CLASSIFIED AS CARCINOGENIC BY NTP, IARC OR OSHA  |
| Symptoms of Overexposure             | EXTREME OVEREXPOSURE CAN CAUSE DIZZINESS OR HEADACHE. CONTACT WITH LIQUIFIED GAS CAN CAUSE FREEZE BURN   |
| Medical Cond. Aggravated by Exposure | REPSIRATORY PROBLEMS MAY BE AGGRAVATED BY EXPOSURE   |
| Emergency/First Aid Procedures       | EYE: IMMEDIATLEY FLUSH EYES WITH RUNNING WATER FOR 15 MINUTES. IF IRRITATION DEVELOPS, SEEK MEDICAL ATTENTION. SKIN: FLUSH SKIN WITH WATER. IF IRRITATION DEVELOPS, SEEK MEDICAL ATTENTION. INHALATION: REMOVE FROM EXPOSURE. IF BREATHING CEASES, ADMINISTER ARTIFICIAL RESPIRATION FOLLOWED BY OXYGEN. SEEK MEDICAL ATTENTION. INGESTION: SEEK IMMEDIATE MEDICAL ATTENTION |

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## SECTION VII - Precautions for Safe Handling and Use

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|                                    |  |
|------------------------------------|--|
| Steps if Material Released/Spilled | EVACUATE AREA OF ALL UNNECESSARY PERSONEL. REMOVE ALL SOURCES OF IGNITION. VENTILATE TO REMOVE FUMES. FLUSH LARGE SPILLS WITH WATER. RUN OFF TO SEWERS MAY CAUSE FIRE OR EXPLOSION                             |
| Neutralizing Agent                 | NONE SPECIFIED BY MANUFACTURER   |
| Waste Disposal Method              | ALLOW SPILLS TO EVAPORATE. DO NOT INCINERATE TANKS. DO NOT PUNCTURE OR MUTILATE TANKS. BE SURE TANKS ARE EMPTY. DISPOSE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS- NORMALLY IN REGULAR TRASH |
| Handling and Storage Precautions   | NOT STORE OVER 120F OR IN DIRECT SUNLIGHT. STORE AWAY FRO IGNITION SOURCES AND IN WELL-VENTILATED AREA. DO NOT STORE IN LIVING AREA. PO  |
| Other Precautions                  | POCKETS OF GAS HEAVIER THAN AIR MAY ACCUMULATE IN LOW AREAS AND/OR SPREAD ALONG THE GROUND AWAY FROM HANDLING SITE   |

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## SECTION VIII - Control Measures

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|                        |  |
|------------------------|--|
| Respiratory Protection | NOT GENERALLY REQUIRED. WHEN NECESSARY, USE NILSH/MSHA APPROVED SCBA |
| Ventilation            | NATURAL AND/OR EXPLOSION-PROOF VENTILATION RECOMMENDED               |
| Protective Gloves      | STANDARD WORK GLOVES   |
| Eye Protection         | CHEMCIAL GOGGLES   |

|                                 |   |
|---------------------------------|---|
| Other Protective Equipment      | WHEN SOLDERING OR BRAZING, USE GOGGLES WITH ANSI Z.87 #4 OR #5 LENSES |
| Work Hygenic Practices          | KEEP WORK AREAS FREE OF FLAMMABLE MATERIALS AND UNNECESSARY CLUTTER   |
| Supplemental Health/Safety Data | NONE SPECIFIED BY MANUFACTURER  |
| Disposal Code                   | 0   |

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## SECTION IX - Label Data

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|                                |   |
|--------------------------------|---|
| Protect Eye                    | YES   |
| Protect Skin                   | YES   |
| Protect Respiratory            | NO  |
| Chronic Indicator              | NO  |
| Contact Code                   | SLIGHT  |
| Fire Code                      | UNKNOWN   |
| Health Code                    | UNKNOWN   |
| React Code                     | UNKNOWN   |
| Specific Hazard and Precaution | VAPORS MAY CAUSE DIZZINESS OR SUFFOCATION. CONTACT WILL CAUSE SEVERE FROSTBITE. FIRE MAY PRODUCE IRRITATING OR POISONOUS GASES. DO NOT STORE OVER 120F OR IN DIRECT SUNLIGHT. STORE AWAY FROM IGNITION SOURCES IN WELL VENTILATED AREA. DO NOT STORE IN LIVING AREA. IF INHALED, REMOVE VICTIM TO FRESH AIR.KEEP WARM.GIVE OXYGEN IF PATIENT IS INTOXICATED.CAUTION OF FIRE HAZARD IN LUNGS ADVISED.TREAT BURNS AS USUAL,SYMPTOMATIC AND SUPPORTIVE |

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## SECTION X - Transportation Data

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|                    |      |
|--------------------|------|
| Container Quantity | 14.1 |
| Unit of Measure    | OZF  |

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## SECTION XI - Site Specific/Reporting Information

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|                                  |        |
|----------------------------------|--------|
| Volatile Organic Compounds (P/G) | 4.2557 |
| Volatile Organic Compounds (G/L) | 510    |

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## SECTION XII - Ingredients/Identity Information

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|                   |                 |
|-------------------|-----------------|
| Ingredient #      | 01              |
| Ingredient Name   | PROPANE         |
| CAS Number        | 74986           |
| NIOSH Number      | TX2275000       |
| Proprietary       | NO              |
| Percent           | >90             |
| OSHA PEL          | 1000 PPM        |
| ACGIH TLV         | ASPHYXIAN; 9192 |
| Recommended Limit | NOT ESTABLISHED |
| Ingredient #      | 02              |

|                   |                                |
|-------------------|--------------------------------|
| Ingredient Name   | PROPYLENE (PROPENE) (SARA III) |
| CAS Number        | 115071                         |
| NIOSH Number      | UC6740000                      |
| Proprietary       | NO                             |
| Percent           | <5                             |
| OSHA PEL          | NOT ESTABLISHED                |
| ACGIH TLV         | ASPHIXIANT; 9192               |
| Recommended Limit | NOT ESTABLISHED                |
| Ingredient #      | 03                             |
| Ingredient Name   | BUTANE                         |
| CAS Number        | 106978                         |
| NIOSH Number      | EJ4200000                      |
| Proprietary       | NO                             |
| Percent           | <2.5                           |
| OSHA PEL          | 800 PPM                        |
| ACGIH TLV         | 800 PPM; 9192                  |
| Recommended Limit | NOT ESTABLISHED                |

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