

Safety Data Sheet

Section 1 – Identification **Product Identifier:** Fuel / Fuel Cartridge **Manufacturer:** Paslode 155 Harlem Avenue Glenview, IL 60025 **Distributor: ITW Construction Products** 120 Travail Road Markham, ON L35 3J1 800-222-6990 **Information Telephone Number: Information Email Address:** tech@paslode.com Call CHEMTREC Day or Night **Emergency Telephone Number:** Within U.S. and Canada: 1-800-424-9300 Outside U.S. and Canada: +1 703-527-3887 (collect calls accepted) **Recommended Use:** Fuel for ITW-affiliated brand cordless tools (see below). **Restrictions on Use:** Use only with Paslode, Duo-Fast, Ramset, and Spit cordless tools.

Section 2 – Hazard(s) Identification

| GHS Classification: | Flammable aerosol, Category 1 |
|-------------------------------|---|
| | Gases Under Pressure - Liquefied gas |
| | Specific Target Organ Toxicity - Single Exposure Category 3 |
| | Simple Asphyxiant |
| GHS Signal Word: | Danger |
| GHS Hazard Statements: | Extremely flammable aerosol. |
| | Contains gas under pressure; may explode if heated. |
| | May cause drowsiness or dizziness. |
| | May displace oxygen and cause rapid suffocation. |
| GHS Hazard Symbols: | |
| - | |

GHS Precautionary Statements:

: Prevention

Keep out of the reach of children. Keep away from heat/sparks/open flames/hot surfaces -No smoking. Do not spray on an open flame or other ignition sources. Pressurized container: Do not pierce or burn, even after use. Avoid breathing fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Response IF INHALED: Remove person to fresh air and keep in position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell. Storage Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Disposal Dispose of or recycle contents/container in accordance with local/regional/national/international regulations.

Section 3 – Composition/Information on Ingredients (Fuel and Propellant)

| Hazardous Component | CAS-No. | Weight % |
|---------------------|----------|----------|
| 1-butene (butylene) | 106-98-9 | 0 - 80 |
| propene (propylene) | 115-07-1 | 20 - 100 |

Concentration ranges are declared because SDS applies to a group of substantially similar mixtures.

Section 4 – First-aid Measures

Description of Necessary Measures:

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| Inhalation: | IF INHALED: Remove person to fresh air and keep comfortable for breathing. | |
| | If not breathing, provide artificial respiration. Get immediate medical attention. | |
| Skin Contact: | IF ON SKIN: Frostbite may occur from contact with liquefied gas. In case of | |
| | frostbite, wash with plenty of water; do not remove clothing. Get immediate | |
| | medical attention. If frostbite not evident: Immediately remove/take off all | |
| | contaminated clothing. Rinse skin with water/shower. | |
| Eye Contact: | IF IN EYES: Frostbite may occur from contact with liquefied gas. Rinse eyes | |
| - | cautiously with plenty of water for several minutes. Remove contact lenses if | |
| | present and easy to do. Get immediate medical attention. | |
| Ingestion: | IF INGESTED: Frostbite may occur from contact with liquefied gas. Get | |
| - | immediate medical attention. | |
| Most Important Syr | nptoms/Effects: | |
| Immediate Effects: | Direct contact with skin, eyes or internal tissues may result in frostbite. May | |
| | cause drowsiness or dizziness if expelled fuel displaces oxygen in an enclosed, | |
| | poorly ventilated space. Rapid suffocation may result. | |
| Delayed Effects: | No significant effects are expected. | |
| Indication of Immed | liate Medical | |
| Attention & Special Treatment, if any: Treat symptomatically and supportively. | | |

Section 5 – Fire Fighting Measures

| Suitable Extinguishing Media: | Water spray, foam, carbon dioxide or dry chemical. | | | |
|----------------------------------|---|--|--|--|
| Unsuitable Extinguishing Media: | Do not use water jet as an extinguisher as this will spread fire. | | | |
| Specific Hazards: | Extremely flammable aerosol. Contains gas under pressure; may explode if heated. | | | |
| | Thermal decomposition (combustion) may produce carbon monoxide and carbon dioxide. | | | |
| Special Protective Equipment | | | | |
| & Precautions for Fire-fighters: | Avoid contact or inhalation with material or combustion products. Use self-contained breathing apparatus in confined spaces. Eliminate all sources of ignition. Cool containers with water from unmanned hose holder at maximum distance. Isolate hazard area and deny entry to unauthorized persons. | | | |

Section 6 – Accidental Release Measures

| e all sources of ignition and isolate hazard area. |
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| area to maximum extent possible. Wear |
| te chemical resistant clothing and eye protection. |
| ons 5, 7, 8, and 11 of this Safety Data Sheet for |
| l information. |
| |
| Tire-fighting water to maximum extent possible and ush fire-fighting water to surface water or sanitary |
| stem. Place waste material in appropriate container ose of per Section 13 of this Safety Data Sheet. |
| |

Section 7 – Handling and Storage Precautions for Safe Handling: Extremely flammable aerosol: Do not handle or use near extreme heat, sparks, open flames or hot surfaces. Pressurized container: Do not pierce or burn, even after use. Avoid breathing fume/gas/mist/vapors/spray. Wear appropriate personal protective equipment. Use only outdoors or in a well-ventilated area. For maximum number of tool cycles, use before date code on fuel cell. Conditions for Safe Storage, including

Incompatibilities:Do not expose to temperatures exceeding 50°C/122°F. Store
in a cool, dry place out of direct sunlight. Store in a well-
ventilated area. See Section 10 of this Safety Data Sheet for
incompatible materials.

Section 8 – Exposure Controls/Personal Protection

Exposure Limits:

| Hazardous Component | OSHA PEL | ACGIH TLV | | |
|---|--|----------------------------------|--|--|
| 1-butene (butylene) | Not Established | 250 (TWA) | | |
| propene (propylene) | Not Established | 500 (TWA) | | |
| (PEL = Permissible Exposure Lim | it TLV = Threshold Limit Value T | WA = Time-Weighted Average) | | |
| Engineering Controls: Individual Protection Measures | | | | |
| Eye/Face Protection: | Wear safety glasses with side shields when used with | | | |
| Skin Protection: | installation tools. Chemical resistant clothing not required during normal use with installation tools. Appropriate gloves and protective outerwear | | | |
| Respiratory Protection: | appropriate for the physical hazards typically encountered on construction sites is recommended. Not required during normal use with installation tools in well- ventilated areas or outdoors. Self-contained breathing apparatus required in confined spaces. | | | |
| Other Protection: | 11 1 | or significant contact injuries. | | |

Section 9 – Physical and Chemical Properties

| Appearance: | Colorless gas | Upper/Lower Explosive Limits: | |
|----------------------------------|--------------------------|--|-------------------|
| Odor: | Faintly olefinic | Vapor Pressure: ca. 50- | 175 psig at 70°F |
| Odor Threshold: | ca. 30 mg/m ³ | Vapor Density (air = 1): | ca. 1.5 |
| pH: | Not applicable | Relative Density (H₂0=1): ca. 0. | 6 - liquefied gas |
| Melting Point/Freezing Point: | ca300°F | Solubility: | Slight |
| Initial Boiling Point/Range: | ca50°F | Partition Coefficient (Oct/H2O): | $K_{ow} = ca. 2$ |
| Flash Point: | ca160°F | Auto-Ignition Temperature: | ca. 800°F |
| Evaporation Rate: | Not applicable | Decomposition Temperature: | Not available |
| Flammability: | Flammable gas | Viscosity: | Not applicable |
| ca = circa (i.e., approximately) | | | |

Section 10 – Stability and Reactivity

| Chemical Stability:StaPossibility of Hazardous Reactions:NoConditions to Avoid:Ex | o significant reactivity known. able under normal conditions of use. o significant possibility under normal conditions of use. atreme heat, sparks, open flames or hot surfaces. rong acids, halogens, and oxidizing agents. arbon monoxide and carbon dioxide. |
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|---|--|

Section 11 – Toxicological Information

Acute and Chronic Toxicity:

Component Analysis - LD50/LC50:

The components of this material have been reviewed in various sources and the following selected endpoints are published:

| 1-butene (C. | AS 106-98-9) | LC50 (rat) = 658 mg/L (4 hour) | |
|---------------------------|---|---|--|
| propene (CAS 115-07-1) | | LC50 (rat) = 658 mg/L (4 hour) | |
| Immediate Effects: | Direct contact wit | h skin, eyes or internal tissues may result in frostbite. May | |
| | cause drowsiness or dizziness if expelled fuel displaces oxygen in an enclosed, | | |
| | poorly ventilated | space. Rapid suffocation may result. | |
| Delayed Effects: | No significant eff | ects are expected. Propene listed as IARC-3/ACGIH TLV-A4. | |

Likely Routes of Exposure:

| Inhalation: | May cause drowsiness or dizziness if expelled fuel displaces oxygen in an enclosed, poorly ventilated space. Rapid suffocation may result. | |
|---|--|--|
| Skin Contact: | Contact with liquefied gas may cause frostbite. | |
| Eye Contact: | Contact with liquefied gas may cause frostbite. | |
| Ingestion: | Contact with liquefied gas may cause frostbite. | |
| Irritation/Corrosivity Data: | No data available. | |
| Respiratory Sensitization: | No data available. | |
| Dermal Sensitization: | No data available. | |
| Germ Cell Mutagenicity: | No data available. | |
| Reproductive Toxicity: | No data available. | |
| STOT - Single Exposure: | No known effects beyond simple asphyxiation. | |
| STOT - Repeated Exposure: No known effects. | | |
| (STOT = Specific Target Organ Toxicity) | | |
| Aspiration Hazard: | No data available. | |
| Medical Conditions Aggravated | | |
| by Exposure: | None known. | |

Section 12 – Ecological Information

| Ecotoxicity: Persistence and degradability: | No significant ecotoxic effects are expected. Material is gaseous under atmospheric conditions and expected to dissipate primarily into the air when released into the environment. Material components are readily degradable based upon a variety of studies. | |
|--|---|--|
| Bioaccumulative Potential: | Not expected to bioaccumulate. | |
| Mobility in Soil: | Material is gaseous under atmospheric conditions and not expected to adsorb to or be absorbed by soils. | |
| Other Adverse Effects: | None identified. | |

Section 13 – Disposal Considerations

Dispose of or recycle contents/container in accordance with local/regional/national/international regulations. See U.S. Resource Conservation and Recovery Act (RCRA) discussion in Section 16 of this Safety Data Sheet.

| Section 14 – Transport In | formation | | |
|-------------------------------|--------------------|--------------------------|---------|
| U.S. DOT INFORMATION (ground | shipment)* | | |
| PROPER SHIPPING NAME: | Aerosols, LTD QTY | | |
| HAZARD CLASS: | 2.1 | PRODUCT RQ (lbs): | none |
| UN NUMBER: | UN1950 | LABEL: | none |
| IMDG INFORMATION (vessel ship | nent)* | | |
| PROPER SHIPPING NAME: | Aerosols, LTD QTY | | |
| HAZARD CLASS: | 2.1 | PRODUCT RQ (lbs): | none |
| UN NUMBER: | UN1950 | LABEL: | none |
| IATA INFORMATION (air shipmen | t)* | | |
| PROPER SHIPPING NAME: | Consumer Commodity | | |
| HAZARD CLASS: | 9 | PRODUCT RQ (lbs): | none |
| UN NUMBER: | ID8000 | LABEL: | Class 9 |

* Strictly observe all applicable special provisions, packaging requirements, quantity limitations, stowage requirements, and consumer commodity/limited quantity considerations.

TSCA STATUS: All components are included in the TSCA Chemical Inventory. CERCLA REPORTABLE QUANTITY: none SARA TITLE III: SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: none SECTION 311/312 HAZARD CATEGORIES: Physical: Flammable Gas under pressure Health: Specific target organ toxicity

Simple asphyxiant

SECTION 313 TOXIC CHEMICALS: propene (propylene) CAS No. 115-07-1 20-100% by weight

RCRA STATUS: If discarded in its purchased form within the U.S., this product may be classified as a U.S. Environmental Protection Agency (EPA) RCRA D001 (ignitable)

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hazardous waste. Even after use, the fuel cell remains pressurized by an extremely flammable propellant and may retain this hazardous waste characteristic. Waste generators must consider federal, state, and local hazardous waste regulations to determine a proper disposal method based on their status as a conditionally exempt, small quantity or large quantity generator per U.S. EPA or state-equivalent regulations. If discarded outside of the U.S. then classification, handling, and disposal of waste product must comply with all relevant international waste regulations.

CANADIAN STATUS: All components listed on Domestic Substances List (DSL).

EUROPEAN UNION: All components listed on European Inventory of Existing Commercial Chemical Substances (EINECS):

| Component | EINECS No. |
|-----------|------------|
| 1-butene | 203-449-2 |
| propene | 204-062-1 |

STATE REGULATORY INFORMATION: No component of fuel gas or propellant is included on California Proposition 65 lists as a carcinogen or reproductive toxin.

Section 16 – Other Information

Hazardous Materials Identification System (HMIS) Ratings:

Health: 1 Flammability: 4 Physical Hazards: 0 Personal Protection: **See Note below.**

Hazard Ratings: Severe to Minimal (4 to 0)

Note: Personal Protection rating to be supplied by user depending on conditions of use. Wear safety glasses with side shields when using this product with installation tools.

| Date Prepared: | January 14, 2018 |
|----------------|--|
| Prepared By: | ITW Residential & Renovation Product Safety Department |

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