



DEWALT TRAK-IT FUEL CELL

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SECTION 1. IDENTIFICATION

Product identifier used on the label

: **DEWALT TRAK-IT FUEL CELL**

Other means of identification : None assigned.

Recommended use of the chemical and restrictions on use

: Fuel cell for gas combustion tool.

Chemical family

: Mixture of: Hydrocarbon gases

Name, address, and telephone number of the supplier:

DEWALT Industrial Tool Co.

701 East Joppa Road
Townson, MD, USA
21286

Supplier's Telephone # : (800) 524 3244

24 Hr. Emergency Tel # : Chemtrec 1-800-424-9300 (Within Continental U.S.); Chemtrec 703-527-3887 (Outside U.S.).

Name, address, and telephone number of the manufacturer:

Refer to supplier

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Liquified gas. Colorless. Mild olefinic odor.

Most important hazards:Extremely flammable gas May be ignited by open flames and sparks. May displace oxygen and cause rapid suffocation.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Hazard classification

Flammable gas - Category 1
Gases under pressure -Liquefied gas
Simple asphyxiant

Label elements

Hazard pictogram(s)



Signal Word

DANGER!

Hazard statement(s)

Extremely flammable gas
Contains gas under pressure; may explode if heated.
May displace oxygen and cause rapid suffocation



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Precautionary statement(s)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources - No smoking.
Leaking gas fire: do not extinguish, unless leak can be stopped safely.
Eliminate ignition sources if safe to do so.
Store in a well-ventilated place. Protect from sunlight.

Other hazards

Other hazards which do not result in classification None reported by the manufacturer.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration (% by weight)</u>
Propylene	1-Propene	115-07-1	45.0 - 70.0
1-Butene	n-Butene	106-98-9	30.0 - 60.0

The exact concentrations of the above listed chemicals are being withheld as a trade secret.

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

- Ingestion* : Not an expected route of entry.
- Inhalation* : Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. When symptoms persist or in all cases of doubt, seek medical advice.
- Skin contact* : Flush affected skin with gently flowing lukewarm water for at least 20 minutes. Treat for frostbite if necessary by gently warming affected area. Seek immediate medical attention/advice.
- Eye contact* : Rinse immediately with plenty of lukewarm water, also under the eyelids, for at least 15 minutes. Seek immediate medical attention/advice.

Most important symptoms and effects, both acute and delayed

- : Asphyxiant, can replace oxygen in confined area. Oxygen content in the area must not fall below 19.5% or harmful effects will result.

Indication of any immediate medical attention and special treatment needed

- : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

- Suitable extinguishing media* : Dry chemical, foam, carbon dioxide and water fog.
- Unsuitable extinguishing media* : Do not use a solid water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture / Conditions of flammability

- : Extremely flammable gas Contents under pressure. Vapors are heavier than air and may spread along floors. May be sensitive to static discharge.

Flammability classification (OSHA 29 CFR 1910.106)

- : Flammable gas

Hazardous combustion products

- : Carbon oxides; irritating fumes and smoke.

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters



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- : Fire fighters should wear proper full protective equipment and self-contained breathing apparatus with full face- piece. Do not enter without wearing specialized protective equipment suitable for the situation. Firefighter's normal protective clothing (Bunker Gear) will not provide adequate protection. A full-body encapsulating chemical protective suit with positive pressure self-contained breathing apparatus (NIOSH approved or equivalent) may be necessary.

Special fire-fighting procedures

- : Leaking gas fire: do not extinguish, unless leak can be stopped safely.
Move containers from fire area if safe to do so. If feasible, stop the flow of gas. Shield personnel to protect from venting or rupturing containers. Water spray may be useful in cooling equipment exposed to heat and flame.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- : Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.

Environmental precautions : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. Discharge into the environment must be avoided.

Methods and material for containment and cleaning up

- : Ventilate the area. Remove all sources of ignition. Stop leak if you can do so without risk. Use non-sparking tools and explosion-proof equipment. Isolate the area until all gas has dispersed.

Special spill response procedures

- : If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).
US CERCLA Reportable quantity (RQ): None reported.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

- : Flammable gas. Simple asphyxiant - this product does not contain oxygen and may cause asphyxia in confined spaces. Wear protective equipment during handling. Use in a well-ventilated area. Do not breathe gas. Avoid contact with skin and eyes. Keep away from heat and sources of ignition. Use only non-sparking tools with this material. Do not puncture or incinerate containers. Ground all equipment during handling. Keep away from oxidizing agents.

Conditions for safe storage : Store in a cool, dry, well ventilated area, away from heat and ignition sources. Keep away from incompatibles. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area. Protect from sunlight.

Incompatible materials : Strong oxidizing agents; Alkenes; Metal salts; halogens; Acids; Nitrogen oxides (NOx).



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SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Exposure Limits:</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Propylene	500 ppm	N/Av	N/Av	N/Av
1-Butene	250 ppm	N/Av	N/Av	N/Av

Exposure controls

Ventilation and engineering measures

: Use only in well-ventilated areas. Provide sufficient ventilation to keep vapour concentration below the given TLV and/or PEL. Local exhaust is preferable.

Respiratory protection

: If the TLV is exceeded, a NIOSH/MSHA-approved respirator is advised. Advice should be sought from respiratory protection specialists.

Skin protection

: Thermally insulated protective gloves must be worn during use. Advice should be sought from glove suppliers.

Eye / face protection

: Use chemical goggles and face shield when contact with product is possible.

Other protective equipment

: Wear resistant clothing and boots. An eyewash station and safety shower should be made available in the immediate working area.

General hygiene considerations

: Avoid breathing gas. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Colourless gas.

Odour : Mildly olefinic odor.

Odour threshold : N/Av

pH : N/Av

Melting Point/Freezing point : N/Av

Initial boiling point and boiling range

: - 6.25°C (20.75°F) (1-Butene)

Flash point : - 108°C (- 162°F)

Flashpoint (Method) : N/Av

Evaporation rate (BuAe = 1) : N/Av (gas)

Flammability (solid, gas) : Extremely flammable gas

Lower flammable limit (% by vol.)

: 1.4% (Propylene)

Upper flammable limit (% by vol.)

: 10% (1-Butene)

Oxidizing properties : None known.

Explosive properties : Not explosive

Vapour pressure : 676 kPa (96 psig) (6.62 bar) @ 21.1°C (70°F)

Vapour density : > 1.5

Relative density / Specific gravity

: 0.5541

Solubility in water : practically insoluble (< 0.1% @ 21.1°C / 70°F)



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Other solubility(ies) : N/Av
Partition coefficient: n-octanol/water or Coefficient of water/oil distribution
: N/Av
Auto-ignition temperature : 385°C (725°F) (1-Butene)
Decomposition temperature : N/Av
Viscosity : N/Av
Volatiles (% by weight) : N/Av
Volatile organic Compounds (VOC's)
: N/Av
Absolute pressure of container
: 1800 kPa (18 bar) @ 50°C (122°F)
Flame projection length : N/Av
Other physical/chemical comments
: Critical temperature 91.8°C (Propylene); 146.4°C (1-Butene)

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not expected to be reactive.
Chemical stability : Stable under the recommended storage and handling conditions prescribed.
Possibility of hazardous reactions
: May polymerize on contact with catalysts, at elevated temperatures and pressure.
Conditions to avoid : Keep this product away from heat, sparks, flame, and other sources of ignition (e.g. pilot lights, electric motors, static electricity). Avoid contact with incompatible materials. Keep away from direct sunlight. Do not use in areas without adequate ventilation.
Incompatible materials : Strong oxidizing agents; Alkenes; Metal salts; halogens; Acids; Nitrogen oxides.
Hazardous decomposition products
: None known, refer to hazardous combustion products in Section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation : YES
Routes of entry skin & eye : YES
Routes of entry Ingestion : NO
Routes of exposure skin absorption
: NO

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

: Excessive inhalation of vapours can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation. Asphyxiant, can replace oxygen in confined area. In extremely high concentrations, product may act as an asphyxiant and cause increased breathing and pulse rates, fatigue and unconsciousness.

Sign and symptoms ingestion

: Not an expected route of entry under normal conditions of use.

Sign and symptoms skin

: Not an irritant. Contact with liquid may cause frostbite. Symptoms of frostbite may include numbness, prickling and itching.

Sign and symptoms eyes

: Gas may cause mild irritation. Causes frostbite burns to eyes.



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Potential Chronic Health Effects

: Prolonged exposure may cause nasal irritation. Repeated or prolonged exposure may result in kidney effects.

Mutagenicity

: Contains: Propylene. There is some very limited information that Propylene may cause mutagenic effects, based on animal data.

Carcinogenicity

: No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Reproductive effects & Teratogenicity

: Not expected to have other reproductive effects.

Sensitization to material

: Not expected to be a skin or respiratory sensitizer.

Specific target organ effects

: Lungs, eyes, skin, central nervous system.

Medical conditions aggravated by overexposure

: Pre-existing skin, eye, respiratory and central nervous system disorders.

Synergistic materials

: Not available.

Toxicological data

: There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

<u>Chemical name</u>	<u>LC₅₀(4hr)</u> <u>inh, rat</u>	<u>LD₅₀</u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Propylene	> 50 000 ppm	N/Ap (gas)	N/Ap (gas)
1-Butene	> 10 000 ppm	N/Ap (gas)	N/Ap (gas)

Other important toxicological hazards

: None known.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

: No data is available on the product itself.

See the following tables for individual ingredient ecotoxicity data. Measured ecotoxicity data are not available for the aquatic toxicity endpoints. Butenes are gases at standard temperature and pressure and are expected to partition primarily to air, therefore aquatic toxicity tests may not be relevant.

Ecotoxicity data:

<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Fish</u>		
		<u>LC50 / 96h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
Propylene	115-07-1	N/Ap	N/Ap	N/Ap
1-Butene	106-98-9	N/Ap	N/Ap	N/Ap

<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Daphnia</u>		
		<u>EC50 / 48h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
Propylene	115-07-1	N/Ap	N/Ap	N/Ap
1-Butene	106-98-9	N/Ap	N/Ap	N/Ap



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<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Algae</u>		
		<u>EC50 / 96h or 72h</u>	<u>NOEC / 96h or 72h</u>	<u>M Factor</u>
Propylene	115-07-1	N/Ap	N/Ap	N/Ap
1-Butene	106-98-9	N/Ap	N/Ap	N/Ap

Persistence and degradability

: No data is available on the product itself. Contains: Propylene; 1-Butene.
Propylene and 1-Butene are expected to be degradable.

Bioaccumulation potential

: No data is available on the product itself. Contains: Propylene; 1-Butene.

<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Propylene (CAS 115-07-1)	<=2.8	
1-Butene (CAS 106-98-9)	2.42 at 23 °C	

Mobility in soil

: No data is available on the product itself.

Other Adverse Environmental effects

: Contains: Propylene; 1-Butene.
Because of the relatively short half-lives of propylene and 1-Butene in the atmosphere and the low environmental concentrations typically found, their contribution to potential global warming can be considered minor. The ozone depletion potential of these substances is negligible.

SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal

: Handle waste according to recommendations in Section 7.

Methods of Disposal

: Dispose in accordance with all applicable federal, state, provincial and local regulations.

RCRA

: If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.



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SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
TDG	UN3150	DEVICES, SMALL, HYDROCARBON GAS POWERED with release device	2.1	none	
TDG Additional information	May be shipped as a LIMITED QUANTITY in containers no larger than 125 mL, in packages not exceeding 30 kg gross mass.				
49CFR/DOT	UN3150	Devices, small, hydrocarbon gas powered	2.1	none	
49CFR/DOT Additional information	May be shipped as a LIMITED QUANTITY in containers no larger than 125 mL, in packages not exceeding 30 kg gross mass.				
ICAO/IATA	UN3150	Hydrocarbon gas refills for small devices	2.1	none	
ICAO/IATA Additional information	Refer to ICAO/IATA Packing Instruction				
IMDG	UN3150	DEVICES, SMALL, HYDROCARBON GAS POWERED with release device	2.1	none	
IMDG Additional information	Consult the IMDG regulations for exceptions.				

Special precautions for user : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources - No smoking.

Environmental hazards : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
: Not available.

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

<u>Ingredients</u>	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
Propylene	115-07-1	Yes	None.	None.	Yes	1%
1-Butene	106-98-9	Yes	None.	None.	No	N/Ap



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SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Flammable gas; Fire Hazard; Gas Under Pressure.

Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

<u>Ingredients</u>	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Propylene	115-07-1	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
1-Butene	106-98-9	No	N/Ap	No	Yes	No	No	Yes	No

Canadian Information:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL). WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

International Information:

Components listed below are present on the following International Inventory list:

<u>Ingredients</u>	CAS #	European EINECS	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Propylene	115-07-1	204-062-1	Present	Present	(2)-13	KE-29388	Present	HSR001011
1-Butene	106-98-9	203-449-2	Present	Present	(2)-16	KE-03887	Present	HSR005565

SECTION 16. OTHER INFORMATION

Legend

- : ACGIH: American Conference of Governmental Industrial Hygienists
- AICS: Australian Inventory of Chemical Substances
- CA: California
- CAS: Chemical Abstract Services
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
- CFR: Code of Federal Regulations
- DOT: Department of Transportation
- EINECS: European Inventory of Existing Commercial chemical Substances
- ENCS: Existing and New Chemical Substances
- EPA: Environmental Protection Agency
- HSDB: Hazardous Substances Data Bank
- IARC: International Agency for Research on Cancer
- Inh: Inhalation
- IOC: Inventory of Chemicals
- ISHA: Industrial Safety and Health Act
- ISHL: Industrial Safety Health Law
- KECI: Korean Existing Chemicals Inventory
- KECL: Korean Existing Chemicals List
- LC: Lethal Concentration
- LD: Lethal Dose
- MA: Massachusetts



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MN: Minnesota
N/Av: Not Applicable
N/Av: Not Available
NIOSH: National Institute of Occupational Safety and Health
NJ: New Jersey
NOEC: No observable effect concentration
NTP: National Toxicology Program
OECD: Organisation for Economic Co-operation and Development
OSHA: Occupational Safety and Health Administration
PA: Pennsylvania
PICCS: Philippine Inventory of Chemicals and Chemical Substances
PEL: Permissible exposure limit
RCRA: Resource Conservation and Recovery Act
RI: Rhode Island
RTECS: Registry of Toxic Effects of Chemical Substances
SARA: Superfund Amendments and Reauthorization Act
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
TPQ: Threshold Planning Quantity
TSCA: Toxic Substance Control Act
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Materials Identification System

References

- : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2018.
- 2. International Agency for Research on Cancer Monographs, searched 2019.
- 3. Canadian Centre for Occupational Health and Safety, CCHInfoWeb databases, 2019 (Chempendium, HSDB and RTECs).
- 4. Safety Data Sheets from manufacturer.
- 5. US EPA Title III List of Lists - June 2019 version.
- 6. California Proposition 65 List - September 2019 version.
- 7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2019.

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Other special considerations for handling

: Provide adequate information, instruction and training for operators.

<p>Prepared for: DEWALT Industrial Tool Co. 701 East Joppa Road Townson, MD 21286 Telephone: (800) 524 3244</p>	
<p>Prepared by: ICC The Compliance Center Inc. Telephone: (888) 442-9628 (U.S.); (888) 977-4834 (Canada) http://www.thecompliancecenter.com</p>	

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or completeness of the data contained herein. The data in this SDS does not apply to use with any other product or in any other process.

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