

SAFETY DATA SHEET

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Olympian Gas Match

Section 1- Chemical Product and Company Identification

Product Name: Olympian Gas Match

Supplier: Camco Manufacturing, Inc.
121 Landmark Drive
Greensboro, NC 27409
1-800-334-2004

Product Use: Butane Lighter

Product Code: 57433 (GM3), 57453 (GM4), 57473 (GM9),
57543 (GM3X) and 57684 (GM3XE)

Date of Preparation/Revision: October 15, 2014

In case of Emergency: 1-800-535-5053

Section 2- Hazards identification

Physical State: Gas. [EXTREMELY FLAMMABLE, COLORLESS LIQUEFIED COMPRESS GAS WITH GASOLINE-LIKE ODOR.]



Extremely Flammable Gas



Liquefied Gas

DANGER!

GHS Classifications

Flammable Gases (Category 1)

Flammable Liquid and Vapors (Category 1)

Gases Under Pressure – Liquefied Gases

Hazard Statements

H220 Extremely flammable gas

H224 Extremely flammable liquid and vapor

H280 Contains gas under pressure; may explode if heated

Precautionary statements

P102 Keep out of reach of children

P103 Read label before use

P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking

P233 Keep container tightly closed

P260 Do not breathe dust/fumes/gas/mist/vapors/spray

Response statements

P321 Specific treatment (see First Aid Measures on Safety Data Sheet)

Disposal

P501 Dispose of contents/container in accordance with local/regional/national regulations

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EXTREMELY FLAMMABLE GAS.
MAY CAUSE FLASH FIRE.
MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.
CONTENTS UNDER PRESSURE.

Danger keep away from heat, sparks and flame. Do not puncture or incinerate container. May cause target organ damage, based on animal data. Use only with adequate ventilation. Keep container closed. Contact with rapidly expanding gases can cause frostbite.

Target organs: May cause damage to the following organs: central nervous system (CNS).

Routes of entry: Inhalation

Potential acute health effects

Eyes: Contact with rapidly expanding gas may cause burns or frostbite
Skin: Contact with rapidly expanding gas may cause burns or frostbite.
Inhalation: Acts as a simple asphyxiant.
Ingestion: Ingestion is not a normal route of exposure for gases

Potential Chronic

Health Effects: **CARCINOGENIC EFFECTS:** Not available.
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.

HMIS Ratings: Health: 0 Fire: 4 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

Medical conditions aggravated by overexposure:

Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

See toxicological information (section 11)

Section 3 - Composition, Information on Ingredients

<u>Name</u>	<u>CAS Number</u>	<u>% Volume</u>	<u>Exposure limits</u>
N-Butane	106-97-8	100	ACGIH TLV (United States, 2/2010) TWA: 1000 ppm 8 hour(s) NIOSH REL (United States, 6/2009) TWA: 1900 mg/m ³ 10 hour(s) TWA: 800 ppm 10 hour(s) OSHA PEL 1989 (United States, 3/1989) TWA: 1900 mg/m ³ 8 hour(s) TWA: 800 ppm 8 hour(s)

Section 4 - First Aid Measures

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Eye contact: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes

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while removing contaminated clothing and shoes. To avoid the risk of static discharges and gas ignition, soak contaminated clothing thoroughly with water before removing it. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

Frostbite: Try to warm up the frozen tissues and seek medical attention.

Inhalation: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Ingestion: As this product is a gas, refer to the inhalation section.

Section 5 - Fire-Fighting Measures

Flammability of the Product: Flammable

Auto-ignition Temperature: 286.85°C (548.3°F)

Flash Point: Closed cup: -60.15°C (-76.3°F)

Flammable Limits: Lower: 1.6% Upper: 8.5%

Products of Combustion: Decomposition products may include the following materials:
Carbon Dioxide and Carbon Monoxide

Fire Hazards in the Presence of Various Substances:

Extremely flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and oxidizing materials.

Fire-Fighting Media and Instructions:

In case of fire, use water spray (fog), foam or dry chemical
Apply water from a safe distance to cool container and protect surrounding area.
Contains Gas Under Pressure. Flammable Gas. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

Special Protective

Equipment for Fire-Fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6 - Accidental release measures

Personal Precautions: Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (section 8). Isolate area until gas has dispersed.

Environmental Precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Methods for Cleaning Up: Immediately contact emergency personnel. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Section 7- Handling and Storage

Handling: Use only with adequate ventilation.
High pressure gas. Do not puncture or incinerate container. Keep container closed. Keep away from heat, sparks and flame. To avoid fire,

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Storage: eliminate ignition sources. Protect cylinders from physical damage; do not drag, roll, slide, or drop. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Segregate from oxidizing materials. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Cylinder temperatures should not exceed 52 °C (125 °F).

Section 8 - Exposure Controls / Personal Protection

Engineering controls: Use only with adequate ventilation.

Personal Protection

Eyes: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Skin: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory: Use only with adequate ventilation.

Personal protection in case of a large spill: Self-contained breathing apparatus (SCBA) should be used to avoid inhalation of the product.

Product name:

Butane

ACGIH TLV (United States, 2/2010)

TWA: 1000 ppm 8 hour(s)

NIOSH REL (United States, 6/2009)

TWA: 1900 mg/m³ 10 hour(s)

TWA: 800 ppm 10 hour(s)

OSHA PEL 1989 (United States, 3/1989)

TWA: 1900 mg/m³ 8 hour(s)

TWA: 800 ppm 8 hour(s)

Consult local authorities for acceptable exposure limits.

Section 9 - Physical and Chemical Properties

Molecular weight: 58.14 g/mole
Molecular formula: C₄H₁₀
Boiling/condensation point: 30.9° F (-0.6° C)
Melting/freezing point: -211.7°F (-135.4°C)
Critical temperature: 305.4°F (151.9°C)
Vapor pressure: 16.3 (psig)
Vapor density: 2 (Air = 1)
Specific Volume (ft 3/lb): 6.435
Gas Density (lb/ft 3): 0.1554
Flash Point (PMCC): -60.15°C (-76.3°F)
Auto-ignition Temperature: 286.85°C (548.3°F)
Flammable Limits in Air by Volume: LOWER: ~ 1.6 vol % UPPER: ~ 8.5 vol %
Evaporation Rate: Greater than n-Butyl Acetate
Decomposition Temperature: Not Determined

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Viscosity (cps): Not Applicable
VOC (%): ≈ 100%

Section 10 - Stability and Reactivity

Stability and Reactivity: The product is stable.
Incompatibility with various Substances: Extremely reactive or incompatible with the following materials: oxidizing materials.
Hazardous Decomposition Products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous polymerization: Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11 - Toxicological Information

Toxicity Data

Product/Ingredient Name	Result	Species	Dose	Exposure
Butane	LC50 Inhalation Vapor	Rat	658000 mg/m3	4 hours

Chronic effects on humans May cause damage to the following organs: central nervous system (CNS).

Other toxic effects on humans No specific information is available in our database regarding the other toxic effects of this material to humans.

Specific effects

Carcinogenic Effects: No known significant effects or critical hazards.

Mutagenic Effects: No known significant effects or critical hazards.

Reproduction Toxicity: No known significant effects or critical hazards.

Section 12 - Ecological Information

Aquatic Ecotoxicity: Not available.

Products of degradation: Products of degradation: carbon oxides (CO, CO₂) and water.

Environmental fate: Not available.

Environmental hazards: No known significant effects or critical hazards.

Toxicity to the environment: Not available.

Section 13 - Disposal Considerations

Product removed from the cylinder must be disposed of in accordance with appropriate Federal, State, local regulation.

Section 14 - Transport information

Domestic Ground within the Continental US under 49CFR100-185

Regulatory Information	UN Number	Proper Shipping Name	Class	Packing Group
DOT Classification	UN1057	Lighters	2.1	NA (Gas)

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IMDG
UN1057

Refer to Current IMDG regulations for full shipping description requirements

IATA

This material is not prepared or packaged for air transportation

International shipping requirements must be determined by the party offering the material for transportation

Section 15 - Regulatory Information

U.S. Federal regulations

United States inventory (TSCA 8b): This material is listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: Butane

SARA 311/312 MSDS distribution - chemical inventory - hazard identification:

Butane: Fire hazard, Sudden release of pressure

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 accidental release prevention: Butane

Clean Air Act (CAA) 112 regulated flammable substances: Butane

Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

State regulations

Connecticut Carcinogen Reporting: This material is not listed.

Connecticut Hazardous Material Survey: This material is not listed.

Florida substances: This material is not listed.

Illinois Chemical Safety Act: This material is not listed.

Illinois Toxic Substances Disclosure to Employee Act: This material is not listed.

Louisiana Reporting: This material is not listed.

Louisiana Spill: This material is not listed.

Massachusetts Spill: This material is not listed.

Massachusetts Substances: This material is listed.

Michigan Critical Material: This material is not listed.

Minnesota Hazardous Substances: This material is not listed.

New Jersey Hazardous Substances: This material is listed.

New Jersey Spill: This material is not listed.

New Jersey Toxic Catastrophe Prevention Act: This material is not listed.

New York Acutely Hazardous Substances: This material is not listed.

New York Toxic Chemical Release Reporting: This material is not listed.

Pennsylvania RTK Hazardous Substances: This material is listed.

Rhode Island Hazardous Substances: This material is not listed

California Prop 65 Warning: Products of Combustion

Section 16 - Other information

NFPA CODES: Health	0
Flammability	4
Reactivity	0

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Note - NFPA ratings are based on a 0-4 rating scale with 0 representing minimal hazards or risks and 4 representing extreme hazards or risks.

Date of Preparation/Revision: October 15, 2014 (Supersedes all previous MSDS and SDS)

DISCLAIMER

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