



SAFETY DATA SHEET

SDS#: 869XGM_E_2

Product:

OLYMPIAN™ GAS MATCH

Initial Date Prepared: 9/18/2017

Date Revised: 9/11/2019

Revision Number 2

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: Lighter, Ignition Source
**Product Code: 57433 (GM3), 57453 (GM4), 57473 (GM9),
57543 (GM3X), 57684 (GM3XE)**

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

2 – HAZARDS IDENTIFICATION:

Classification: Flammable Gases: Category 1
Gases Under Pressure Category Liquefied Gas

Hazard Pictogram(s):



Signal Word: DANGER

Hazard Phrases: H220.....Extremely Flammable Gas
H280.....Contains gas under pressure; may explode if heated.

Precaution Phrases: P210.....Keep away from heat, hot surface, sparks, open flames, and other ignition sources. No Smoking.
P220.....Keep away from clothing and other combustible materials.
P221.....Take any precaution to avoid mixing with combustibles.
P280.....Wear protective gloves / protective clothing / eye protection / face protection.

Response Phrases: P377.....Leaking gas Fire: Do not extinguish unless can be stopped safely
P381.....In case of leakage, eliminate all ignition sources.

Storage and Disposal Phrases: P410+P403:Protect from sunlight. Store in a well ventilated place.
P501.....Dispose of contents / container according to local, state regional, national, territorial, provincial, federal and international regulations.



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Potential Health Effects:

Liquid gas can cause burns similar to frostbite.

EYES:

Contact with the eyes may cause irritation. Symptoms may include discomfort, pain or redness.

SKIN:

Liquid gas can cause burns similar to frostbite.

INGESTION:

Not anticipated to be harmful but ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

INHALATION:

This product may be irritating to the respiratory system. Inhalation of dust of the product may cause sneezing, coughing and difficulty breathing.

3 - COMPOSITION, INFORMATION ON INGREDIENTS:

<u>NAME</u>	<u>CAS NUMBER</u>	<u>% WEIGHT</u>	<u>CLASSIFICATION</u>
Butane	106-97-8	100	H220, Extremely Flammable Gas H280, Contains gas under pressure; may explode if heated.

Fragrance usage level conforms to IFRA 48th Amendment for the maximum concentrations.

* Percent composition will vary by Product, from batch to batch or exact details are proprietary information.

4 – FIRST AID MEASURES:

General: Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. Never attempt to give anything orally (by mouth) to a person that is unconscious. If you or another person feels unwell, seek medical advice. Show label to the medical personnel if possible.

Eye Contact: Do not rub eyes. Rinse eyes carefully for at least 15 minutes with low-pressure water. If contact lenses are present, remove if easy to do so. Continue rinsing. Seek medical attention if irritation develops and persists.

Skin Contact: Remove contaminated clothing. Rinse affected area with water for at least 10 minutes. Seek medical attention if irritation or burns develop.

Inhalation: Move from exposure area to fresh air. Monitor breathing. Seek medical attention if feeling unwell or problems breathing.

Ingestion: Rinse mouth with water. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician to get medical advice if one feels unwell.

MOST IMPORTANT SYMPTOMS / EFFECTS. Acute and Delayed:

General: May cause eye irritation. Maybe harmful if swallowed.

Eye Contact: Maybe irritating if in eyes.

Skin Contact: May cause burns similar to frostbite.

Inhalation: May cause respiratory irritation resulting in coughing, choking and / or wheezing.

Ingestion: Irritation of the gastrointestinal tract may develop with increased thirst, nausea, and / or diarrhea.



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5 – FIRE - FIGHTING MEASURES

EXTINGUISHING MEDIA:

Suitable: Water fog or fine spray, alcohol foams, carbon dioxide, or dry chemical.

Unsuitable: **DO NOT** use a heavy stream of water as this may spread the fire.

Fire Hazard: Flammable

Explosion Hazard: Product can be explosive under high heat or in contact with ignition sources.

Special Hazards: Combustion may produce irritating and /or toxic gases / fumes..

6 – ACCIDENTAL RELEASE MEASURES:

Personal Precautions: Prevent eye, skin and clothing contact. Avoid breathing dust. Spilled material may present a slip hazard on some surfaces.

Environmental Precautions: Prevent large spills from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12 for Ecological Information/Data.

Containment and Clean up: Stop spill or leak at source if safe to do so. Sweep / Vacuum up spillage and collect in suitable container. Avoid generation of dust / ventilate area of spillage. .

7 – HANDLING AND STORAGE:

Precautions for Safe Handling: Avoid contact with eyes, skin, and clothing. Avoid breathing dust. Wash hands thoroughly after handling. Do not eat or drink after handling without washing hands.

Conditions for safe storage: Store in a cool, ventilated area. Store away from heat, sparks, open flame, direct sunlight, and temperatures exceeding 49°C (120°F). Do not puncture or incinerate container

Incompatible Materials: Heat, sparks, open flame, direct sunlight, and temperatures exceeding 49°C (120°F).

8 – EXPOSURE CONTROLS / PERSONAL PROTECTION:

Regulatory Exposure Limits (REL's): Listed below for the product components that have regulatory occupational exposure limits (OEL's) established. If no limits are displayed then no values were found or are applicable.

Component	CAS Number:	OSHA PEL	ACGIH TLV	NIOSH REL
Butane	106-97-8	TWA: 1900 mg/m ³ (8 hrs) TWA: 1000 ppm (8 hrs)	TWA: 1000 ppm	TWA: 1900 mg/m ³ (10 hrs) TWA: 1000 ppm (10 hrs)

Engineering Controls: Ensure adequate ventilation / use in a well-ventilated area.

Personal Protection:

Eye Protection: Safety goggles, face shield, or safety glasses

Skin Protection: Chemical resistant gloves. Apron / suit impervious to the material.

Respiratory Protection: Where OEL's maybe reached or exceeded consult with an industrial hygienist for proper/approved respiration protection.

General Hygiene: Do **NOT** eat, drink, smoke or use cosmetics when handling this material. Avoid contact with eye, skin and clothing. Avoid breathing the mist.

9 - PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: Colorless Gas

Boiling Point (°C/°F):..... -15 to 0 / 5 to 32

Physical State: Gas, Liquefied Gas.

Flash Point (°C/°F): -60.15 / -76.3

Odor: Faint gas odor.

Method: Closed Cup



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Odor Threshold (ppm):..... Not Determined
pH (10% solution, 20°C): Not Applicable
Melting Point (°C/°F): - 135 / - 211
Freeze Point (°C/°F): Not Determined
Viscosity dynamic (cps @ 25 °C): .. Not Applicable
Viscosity kinematic (cps @ ___°C): Not Applicable
Specific Volume (g/cm³) / (lb/ft³): ... 0.103 / 6.435
Gas Density (g/cm³) / (lb/ft³):..... 0.0018 / 0.1154
Evaporation Rate: > n-Butyl Acetate

Flammable Limits in Air by Volume (%):
Lower:1.6
Upper:8.5
Vapor Pressure:..... 16.3 psi g
Vapor Density (Air=1):..... 2
Solubility, water:..... Insoluble
Other: Not Determined
Auto-ignition Temperature(°C/°F) :. 286.85 / 548.3
Decomposition Temperature (°C/°F): Not Applicable
Volatile Organic Compounds (%): 100

10 - STABILITY AND REACTIVITY:

Reactivity:

Not reactive.

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Heat, sparks, open flame, direct sunlight, and temperatures exceeding 49°C (120°F).

Incompatible Materials:

Oxidizing agents, acids.

Hazardous Decomposition Products:

Decomposition may yield carbon monoxide and carbon dioxide.

Hazardous Polymerization:

Not expected to occur.

11 - TOXICOLOGICAL INFORMATION:

<u>PRODUCT</u>	<u>Oral LD50</u>	<u>Dermal LD50</u>	<u>Inhalation LC50</u>
Toxicological Information on the product has not been determined.			
If data was found / known for the individual components, it is presented below			
<u>Component</u>	<u>CAS Number:</u>	<u>Oral LD50</u>	<u>Dermal LD50</u>
Butane	106-97-8		
			Rat: 658000 mg/m ³ (4 hrs)
<u>Component</u>	<u>CAS Number:</u>		
Butane	106-97-8		
<u>Skin Corrosion/Irritation</u> : No Data Found			



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Serious Eye Damage/Irritation: No Data Found

Respiratory or Skin Sensitization: No Data Found

Carcinogenicity: No Data Found

Toxicity to Reproduction: No Data Found

Developmental Toxicity: No Data Found

Germ Cell Mutagenicity: No Data Found

STOT – Single exposure: No Data Found

STOT – Repeated exposure: No Data Found

12 - ECOLOGICAL INFORMATION:

PRODUCT

Ecotoxicity Information on the product has not been determined.

If data was found / known for the individual components, it is presented below

<u>Component</u>	<u>CAS Number:</u>
Butane	106-97-8

Hazards to Aquatic Environment:

Acute hazards: Fish: No Data Found

Aquatic Invertebrates: No Data Found

Aquatic Plants: No Data Found

Chronic hazards: Fish: No Data Found

Aquatic Invertebrates: No Data Found

Aquatic Plants: No Data Found

Persistence & Degradability: Biodegradation: No Data Found

BOD/COD Ratio: No Data Found

Partition Coefficient: No Data Found

13 - DISPOSAL CONSIDERATIONS:

Disposal Instructions:

Dispose of waste material according to local, state, federal, and provincial regulations.

RCRA & Hazardous Waste:

It is the responsibility of the waste generator to determine the proper waste identification and disposal method. Consult RCRA, Title 40 CFR 261 for hazardous waste classification and disposal.



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14 - TRANSPORT INFORMATION:

US DOT per 49 CFR 100-185: REGULATED

Proper Shipping Name: Lighters
 Hazard Class/Division: 2.1
 UN/NA Number: UN1057
 Packing Group: Not Applicable (Gas)

TDG: NOT REGULATED**IMDG: 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. The manufacturer does not offer this material for international shipping.

15 - REGULATORY INFORMATION:

US FEDERAL REGULATIONS (for mixture components):

TSCA	SARA 302	SARA 304	SARA 311/312	SARA 313
Listed or Exempt	None Listed	None Listed	Butane 106-97-8 Chronic Health, Fire	None Listed

CWA 307 / 311	CAA 112 (Flammable Substances)	CAA 112 (Toxic Substances)
None Listed	None Listed	None Listed

STATE (US) Right -to-Know (for mixture components):

STATE	COMPONENT	CAS #
Massachusetts	Butane	106-97-8
New Jersey	Butane	106-97-8
Pennsylvania	Butane	106-97-8

California Prop 65 No products listed on Prop 65 to the best of our knowledge**COUNTRY CHEMICAL LISTINGS (for mixture components):**

AICS (Australia)	DSL (Canada)
Components Listed Or exempt	Components Listed Or exempt

16 - OTHER INFORMATION:

HMIS Ratings:

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

NFPA RATINGS:

HEALTH 0	FLAMMABILITY 4	REACTIVITY 0	OTHER None
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Hazard Scale:



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ACRONYMS

ACGIH:	American Conference of Governmental Industrial Hygienists	LOEC:	Lowest Observed Effect Level
AICS:	Australian Inventory of Chemical Substances (AUS)	NFPA	National Fire Protection Association (US)
AUS:	Australia	NICNAS:	National Industrial Chemicals Notification & Assessment Scheme
CAA:	Clean Air Act (US)	NIOSH:	National Institute for Occupational Safety and Health (US)
CAN:	Canada	NDA	No Data Available
CDC:	Center for Disease Control (US)	NDF	No Data Found
CEPA:	Canadian Environmental Protection Act (CAN)	NDSL	Non-Domestic Substances Inventory (CAN)
CERCLA:	Comprehensive Environmental Response, Compensation & Liability Act (US)	NOEC:	No Observed Effect Concentration
CWA:	Clean Water Act (US)	NTP:	National Toxicology Program (US DHHS)
DHHS:	Department of Health and Human Services (US)	OECD:	Organization for Economic Cooperation and Development
DOL:	Department of Labor (US)	OEL:	Occupational Exposure Limit
DOT:	Department of Transportation (US)	OSHA (US):	Occupational Safety and Health Administration (US)
DSL:	Domestic Substances List (CAN)	PEL:	Permissible Exposure Limit
ECHA:	European Chemicals Agency	RCRA:	Resource Conservation and Recovery Act (EPS US)
EINECS	European Inventory of Existing Commercial Chemical Substances	RTK:	Right to Know (US)
ELINCS	European List of Notified Chemical Substances	RQ	Reportable Quantity
EPA:	Environmental Protection Agency (US)	SARA:	Superfund Amendments and Reauthorization Act (US)
EPCRA:	Emergency Planning & Community Right-to-Know Act (US)	STEL:	Short Term Exposure Limit
GHS:	Global Harmonized System	TDG:	Transportation of Dangerous Goods (CAN)
GRAS:	Generally Regarded as Safe (US)	TLV:	Threshold Limit Value
HCIS:	Hazardous Chemical Information System (AUS)	TPQ:	Threshold Planning Quantity (US SARA)
HMIS	Hazardous Material Information System	TSCA	Toxic Substances Control Act
IARC:	International Agency for Research on Cancer	TWA:	Time Weighted Average
IATA:	International Air Transport Association	UEL	Upper Exposure Limit
IFRA:	International Fragrance Association	US:	United States
IMDG:	International Maritime Dangerous Goods	28 WHIMS	Workplace Hazardous Material Information System (CAN)

DISCLAIMER

To the best of our knowledge, the information contained herein is accurate, obtained from sources believed by Camco Manufacturing, Inc., to be accurate. However, the information is provided without any representation or warranty, expressed or implied, regarding its accuracy or correctness.



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The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. It is the responsibility of the user to determine the safety, toxicity and suitability of their own use, handling and disposal of this product