Safety Data Sheet

Issue Date: 21-Jun-2021 **Revision Date:** 21-Jun-2021 **Version 1**

1.PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name Bradley BTGL-696

Other means of identification

SDS # BTGL- 696

Recommended use of the chemical and restrictions on use

Recommended Use Windshield cleaner.

Uses Advised Against For industrial and institutional use only.
Do not use on floors.

Details of the supplier of the safety data sheet

Supplier Address

Bradley Systems
a division of TRION Chemicals
320 37th Avenue
St. Charles, IL 60174
www.bradley-systems.com

Emergency Telephone Number

Company Phone Number 855-513-1314 (to reorder)

Emergency Telephone (24 hr) INFOTRAC 1-800-535-5053 (North America)
1-352-323-3500 (International)

2. HAZARDS IDENTIFICATION

Classification

Serious eye damage/irritation	Category 2A
Flammable aerosol	Category 2
Gases under pressure	Liquified gas

Signal Word

Warning

Hazard Statements

Causes serious eye irritation. Contains gas under pressure; may explode if heated. Flammable aerosol.

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling. Wear eye protection/face protection. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention.

Precautionary Statements - Storage

Protect from sunlight. Store in a well-ventilated place. Do not expose to temperatures exceeding 122°F (50°C).

Precautionary Statements - Disposal

Dispose of contents/container in accordance to local, national and regional regulations.

Hazards not otherwise classified (HNOC) – Other information

1.15% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Common Name Windshield Cleaner
Synonyms Windshield Cleaner
Chemical family Mixtures
Chemical nature Aqueous solution of organic solvent

Chemical Name	CAS No	Weight-%*
Water	7732-18-5	70-75
Ethyl Alcohol	64-17-5	15-20
2-Butoxyethanol	111-76-2	1-5
N-Butane	106-97-8	1-5
Propane	74-98-6	1-5

Chemical additions: Hazardous components according to OSHA, are listed when a 1% or greater. Carcinogens are listed when present at 0.1% or greater. *The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

First Aid Measures

Eye Contact Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Skin Contact Wash skin with soap and water. In the case of skin irritation or allergic reactions see physician.

Inhalation If overcome by vapor, move person to fresh air. Restore respiration if necessary. Get medical attention if injury develops.

Ingestion Ingestion from an aerosol product in unlikely to occur.

Most important symptoms and effects

Symptoms Acute, Deliberate inhalation of concentrated vapor or mist may cause headaches. Prolonged and repeated contact with the eyes may cause mild irritation. Chronic: 2-butoxyethanol may cause hemolysis of the blood cells leading to possible liver and kidney damage.

Indication of any immediate medical attention and special treatment needed

Notes to Physician None needed.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Dry chemical. Carbon dioxide (CO2). Water spray.

Unsuitable Extinguishing Media Caution: Use of water spray when fighting fire may be inefficient.

Specific Hazards Arising from the Chemical
This product is under pressure. Water spray may be used to cool cans in the vicinity of fire or excessive heat to prevent the explosion of the cans.

Hazardous Combustion Products Thermal decomposition may release carbon monoxide and carbon dioxide.

Explosion data
Sensitivity to Mechanical Impact Contents under pressure, keep away from heat and open flame.
Sensitivity to Static Discharge Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity).

Protective equipment and precautions for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Use with adequate general or local exhaust ventilation.

For emergency responders Remove all sources of ignition.

Environmental Precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for Containment Provide adequate ventilation to area being treated. Soak up spills with chemically inert, absorbent material.

Methods for Clean-Up Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Do not deliberately inhale vapor or spray mist. Avoid getting spray into eyes.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store in a cool, dry place away from heat and open flame. Keep out of reach of children. **Aerosol Storage Level I (NFPA-30B)**.

Incompatible Materials Avoid heat, open flame and contact with strong oxidizers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH

Ethyl Alcohol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m^3 (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m^3	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m^3
2-Butoxyethanol 1-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m^3 (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m^3 (vacated) S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m^3
Propane 74-98-6	See Appendix F: Minimal Oxygen Content, explosion hazard	TWA: 1000 ppm TWA: 1800 mg/m^3 (vacated) TWA: 1000 ppm (vacated) TWA: 1800 mg/m^3	IDLH: 2100 ppm TWA: 1000 ppm TWA: 1800 mg/m^3
N-Butane 106-97-8	STEL: 1000 ppm Explosion hazard	(vacated) TWA: 800 ppm (vacated) TWA: 1900 mg/m^3	IDLH: 1600 ppm TWA: 800 ppm TWA: 1900 mg/m^3

Appropriate engineering controls

Engineering Controls Use with adequate general or local exhaust ventilation. Refer to Section 7 of this SDS.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Conventional eyeglasses to guard against splashing.

Skin and Body Protection Rubber, vinyl husehold type gloves, if desired.

Respiratory Protection None required if used in a well-ventilated area.

General Hygiene Considerations Wash hands thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Aerosol
Appearance Clear liquid that will be aerosolized
Color Clear
Odor Perfumed
Odor Threshold No information available

Property	Values	Remarks • Method
pH	10.25	
Melting Point/Freezing Point	Not applicable	
Boiling Point/Boiling Range	Water 100 °C / 212 °F	
Flash Point	Not applicable. This is an aerosol product for which Flame Projection is 0 in. Temperatures above 120°F may cause cans to burst.	
Evaporation Rate	Faster than butyl acetate	
Flammability (Solid, Gas)	No information available	
Upper Flammability Limits	No information available	
Lower Flammability Limit	No information available	
Vapor Pressure	No information available	
Relative Density	0.965 concentrate	
Vapor Density	No information available	
Specific Gravity	No information available	
Water Solubility	Soluble in water	
Solubility in other solvents	No information available	
Partition Coefficient	No information available	
Auto-ignition Temperature	No information available	
Decomposition Temperature	No information available	
Kinematic Viscosity	No information available	
Dynamic Viscosity	No information available	
Explosive Properties	No information available	
Oxidizing Properties	No information available	

Softening point	No information available
Molecular Weight	No information available
VOC Content (%)	26.08%
Density	8.04 lb/gal
Bulk Density	No information available

10. STABILITY AND REACTIVITY

Reactivity
Not reactive under normal conditions.

Chemical Stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
Temperatures above 130°F may cause cans to burst with force.

Hazardous polymerization
Hazardous polymerization does not occur.

Conditions to Avoid
Temperatures above 122°F (50°C).

Incompatible Materials
Avoid heat, open flame and contact with strong oxidizers.

Hazardous Decomposition Products
Thermal decomposition may yield gases like carbon monoxide and carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact Can cause irritation after contact with eyes.

Skin Contact May causes skin irritation after contact with skin. 2-Butoxyethanol penetrates skin readily. Frequent or wide spread contact may result on skin absorption of potentially harmful amounts.

Inhalation Deliberate inhalation of concentrated vapor or mist may cause headache, dizziness and nausea.

Ingestion This is an aerosol product ingestion is unlikely to occur. 2-Butoxyethanol may cause red blood cell hemolysis and possible liver and kidney damage.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water 7732-18-5	>90mL/kg (Rat)		
Ethyl Alcohol 64-17-5	= 7060 mg/kg (Rat)	-	= 124.7 mg/L (Rat) 4h
2-Butoxyethanol 111-76-2	= 470 mg/kg (Rat)	= 99 mg/kg (Rabbit)	= 450 ppm (Rat) 4h = 486 ppm (Rat) 4h
N-Butane 106-97-8	-	-	= 658 g/m^3 (Rat) 4h
Propane 74-98-6	-	-	>800000 ppm (Rat) 15min.

Information on physical, chemical and toxicological effects

Symptoms Deliberate inhalation of concentrated vapor or mist may cause headache, dizziness and nausea. Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage. Not known chronic effects based on available information.
Serious eye damage/irritation Can cause irritation after contact with the eyes.
Skin corrosion/irritation May cause skin irritation after contact with skin. 2-Butoxyethanol penetrates skin readily. Frequent or wide spread contact may result on skin absorption of potentially harmful amounts.
Germ cell mutagenicity No information available.

Skin sensitization Not a skin sensitizer.
STOT - single exposure No information available.
STOT – repeated exposure No information available.
Reproductive toxicity No information available.
Aspiration Hazard Deliberate inhalation of concentrated vapor or mist may cause headache, dizziness and nausea.

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethyl alcohol 64-17-5	A3	Group 1	Known	X
2-Butoxyethanol 111-76-2	A3	Group 3		

Numerical measures of toxicity
Unknown acute toxicity – 1.15% of the mixture consists of ingredient(s) of unknown toxicity.
The following values are calculated based on chapter 3.1 of the GHS document.
ATEmix (oral) 10275 mg/k
ATEmix (dermal) 32738 mg/k
ATEmix (inhalation-gas) 20775 mg/l
ATEmix (inhalation-dust/mist) 41.9 mg/l
ATEmix (inhalation-vapor) 626 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity
6.1% of the mixture consists of component(s) of unknown hazards to the aquatic environment. (Ethyl alcohol and 2-Butoxyethanol.)

Persistence/Degradability
No information available.

Bioaccumulation
No information available.

Chemical Name	Partition coefficient
Ethyl alcohol 64-17-5	-0.32
2-Butoxyethanol 111-76-2	0.81
N-Butane 106-97-8	2.89
Propane 74-98-6	2.3

Other Adverse Effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes Disposal of in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging Pressurized container: Do not pierce or burn, even after use. Do not puncture or incinerate container. If empty: Place in trash or offer for recycling if available. If partly filled: Call your local solid waste agency for disposal instructions.

Chemical Name	California Hazardous Waste Status
Ethyl alcohol 64-17-5	Toxic Ignitable

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

UN/ID No Limited Quantity
Proper Shipping Name Consumer Commodity
Hazard Class ORM-D

IATA

UN/ID No UN1950
Proper Shipping Name Aerosols, flammable
Hazard Class 2.1

IMDG

UN/ID No UN1950
Proper Shipping Name Aerosols, flammable
Hazard Class 2.1
Marine Pollutant This product does not contain marine pollutants

15. REGULATORY INFORMATION

International Inventories

TSCA – All ingredients of this product are listed or are excluded from listing under the US Toxic Substances Control Act Chemical Substance Inventory. DSL – All ingredients are listed or are excluded from listing on the DSL.

Legend:

TSCA *- United States Toxic Substances Control Act Section 8(b) Inventory*

DSL/NDSL *- Canadian Domestic Substances List/Non-Domestic Substances List*

US Federal Regulations

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to release of this material.

SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard No
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

SARA 313

This product contains the following toxic chemicals (above the de minimis level) subject to the reporting requirements of Section 31 of the Emergency Planning and Community Right-to-Know Act of 1986 and 40 CFR 372. This information must be included in All SDSs that are copied and distributed for this material.

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
2-Butoxyethanol	111-76-2	1-5	1.0

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Water 7732-18-5			X
Ethyl alcohol 64-17-5	X	X	X
2-Butoxyethanol 111-76-2	X	X	X
N-Butane 106-97-8	X	X	X
Propane 74-98-6	X	X	X

US EPA Label Information / Registration Number – Not applicable.

16. OTHER INFORMATION

NFPA	**Health Hazards**	**Flammability**	**Instability**	**Special Hazards**
	1	1	1	Not applicable
HMIS	**Health Hazards**	**Flammability**	**Physical Hazards**	**Personal Protection**
	1	2	1	B

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Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet