

BIG O

Safety Data Sheet

SECTION 1: Product and company identification

Product name : BIG O
Use of the substance/mixture : aerosol
Solvent
Product code : AA31
Company : GREEN CHEM LABORATORIES
1650 MARKET STREET
SUITE 3631
PHILADELPHIA, PA 19103 - US
T 1-800-964-3151 - F 1-800-336-9068
Emergency number : INFOTRAC: 1-800-535-5053 OR 1-352-323-3500

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification
Flam. Aerosol 1 H222
Skin Irrit. 2 H315
Skin Sens. 1 H317
Asp. Tox. 1 H304

2.2. Label elements

GHS US labelling
Hazard pictograms (GHS US) :



GHS02 GHS07 GHS08

Signal word (GHS US) : Danger
Hazard statements (GHS US) : Extremely flammable aerosol.
May be fatal if swallowed and enters airways.
Causes skin irritation.
May cause an allergic skin reaction.
Precautionary statements (GHS US) : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
sparks, open flames, hot surfaces, heat
Do not spray on an open flame or other ignition source.
Do not pierce or burn, even after use.
Avoid breathing gas.
Wash thoroughly after handling
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves.
If swallowed: Immediately call a POISON CENTER, a doctor.
If on skin: Wash with plenty of water.
Specific treatment (see First aid measures on this label).
Do NOT induce vomiting.
If skin irritation or rash occurs: Get medical advice/attention.
Take off contaminated clothing.
Store locked up.
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
Dispose of contents/container to comply with local/regional/national/international regulations..
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.
IF INHALED: Move to fresh air, Give oxygen or artificial respiration if necessary, If symptoms persist, call a physician

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

BIG O

Safety Data Sheet

Name	Product identifier	%	GHS-US classification
Citrus Terpenes	(CAS-No.) 94266-47-4	60 – 80	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304
propane	(CAS-No.) 74-98-6	10 – 20	Flam. Gas 1, H220 Press. Gas (Comp.), H280
butane	(CAS-No.) 106-97-8	2.5 – 10	Flam. Gas 1, H220 Press. Gas (Comp.), H280
Alcohol Ethoxylate	(CAS-No.) 68439-46-3	1 – 2.5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319
Linear Alcohol Ethoxylate	(CAS-No.) 34398-01-1	1 – 2.5	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
Alcohols, C12-13, Ethoxylated	(CAS-No.) 66455-14-9	0.1 – 1	Skin Irrit. 2, H315 Eye Dam. 1, H318

All hazardous chemicals, as determined by 29 CFR 1910.1200 have been listed. A specific chemical identity and/or percentage of composition has been withheld as a trade secret. Any concentration shown as a range is to protect confidentiality or is due to batch variation.

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
First-aid measures after skin contact : Take off immediately all contaminated clothing and wash it before reuse. Wash skin with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact : 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.
First-aid measures after ingestion : Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. Rinse mouth with water.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/effects : If you feel unwell, seek medical advice.
Symptoms/effects after inhalation : None under normal use.
Symptoms/effects after skin contact : Causes skin irritation. May cause an allergic skin reaction. Repeated exposure may cause skin dryness or cracking.
Symptoms/effects after eye contact : Direct contact with the eyes is likely to be irritating.
Symptoms/effects after ingestion : May be fatal if swallowed and enters airways. Risk of aspiration pneumonia. Nausea. Cramps/uncontrolled muscular contractions. Diarrhea.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Keep watching the victim. Symptoms may be delayed.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Foam. Carbon dioxide. Dry chemical powder. Water fog.
Unsuitable extinguishing media : Do not use a water jet since it may cause the fire to spread.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : May liberate toxic gases. Extremely flammable aerosol.
Explosion hazard : Contains gas under pressure; may explode if heated.
Reactivity : Upon combustion: CO and CO₂ are formed.

5.3. Advice for firefighters

- Firefighting instructions : Exercise caution when fighting any chemical fire. In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. Use water spray or fog for cooling exposed containers. Take account of environmentally hazardous firefighting water.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : No flames, no sparks. Eliminate all sources of ignition. Isolate from fire, if possible, without unnecessary risk. Vapours may travel long distances along ground before igniting/flashing back to vapour source.

BIG O

Safety Data Sheet

6.1.1. For non-emergency personnel

- Protective equipment : Protective goggles. Gloves. Protective clothing.
Emergency procedures : Evacuate unnecessary personnel. Avoid contact with skin, eyes and clothing. Ventilate spillage area.

6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
Emergency procedures : Stop leak if safe to do so. Stop release. Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

- For containment : Contain released product, pump into suitable containers.
Methods for cleaning up : This material and its container must be disposed of in a safe way, and as per local legislation.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Additional hazards when processed : Do not pierce or burn, even after use. Do not use if spray button is missing or defective.
Precautions for safe handling : Comply with the legal requirements. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Do not get in eyes, on skin, or on clothing. Handle and open the container with care. Keep away from sources of ignition - No smoking. Use explosion-proof equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. . Do not spray on a naked flame or any incandescent material. Ground/bond container and receiving equipment. Use only outdoors or in a well-ventilated area. Do not re-use empty containers.
Hygiene measures : Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be followed. Do not puncture, incinerate or crush.
Storage conditions : Store locked up. Refrigerate. (recommended).
Incompatible products : Oxidizing agent. Strong acids.
Incompatible materials : Sources of ignition. Pressurised container. Protect from sunlight and do not expose to temperatures exceeding 50°C.
Storage area : Store away from heat. Store in a cool area. Store in a dry area. Store in a well-ventilated place. Keep locked up. Aerosol 3.
Special rules on packaging : Keep only in original container. meet the legal requirements.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

propane (74-98-6)

ACGIH	ACGIH OEL TWA [ppm]	1000 ppm
ACGIH	Remark (ACGIH)	Simple Asphyxiant
OSHA	OSHA PEL TWA [1]	1800 mg/m ³
OSHA	OSHA PEL TWA [2]	1000 ppm

butane (106-97-8)

ACGIH	ACGIH OEL TWA [ppm]	1000 ppm
-------	---------------------	----------

Citrus Terpenes (94266-47-4)

Not applicable

Alcohol Ethoxylate (68439-46-3)

Not applicable

Linear Alcohol Ethoxylate (34398-01-1)

Not applicable

BIG O

Safety Data Sheet

Alcohols, C12-13, Ethoxylated (66455-14-9)

Not applicable

8.2. Exposure controls

Appropriate engineering controls : Ensure adequate ventilation, especially in confined areas. If exposure limits have not been established, maintain airborne levels to an acceptable level. . Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal protective equipment : Use appropriate personal protective equipment when risk assessment indicates this is necessary. Gloves. Safety glasses. Protective goggles. Protective clothing.



Hand protection : Gloves.

Eye protection : Avoid contact with eyes. Wear eye/face protection.

Skin and body protection : Avoid contact with skin. Wear suitable protective clothing.

Respiratory protection : If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

Thermal hazard protection : Use appropriate personal protective equipment when risk assessment indicates this is necessary.

Consumer exposure controls : When using do not smoke. Keep away from food and drink. Use good personal hygiene practices. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Take off contaminated clothing.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Gas
Appearance	: Aerosol
Odour	: Citrus scent
Odour threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 348.8 °F (Estimated)
Flash point	: -156 °F Propellant (Estimated)
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Vapour pressure	: 30 – 45 psig @ 70F (Estimated)
Relative density	: No data available
Relative vapour density at 20 °C	: No data available
Density	: 0.7583 g/ml (Estimated)
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Partition coefficient n-octanol/water (Log Kow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: < 20 cSt
Viscosity, dynamic	: No data available
VOC content	: > 90 %

SECTION 10: Stability and reactivity

10.1. Reactivity

Upon combustion: CO and CO2 are formed.

10.2. Chemical stability

Stable under normal conditions. Risk of ignition.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Hazardous polymerization does not occur.

10.4. Conditions to avoid

Heat. Open flame. Sparks. Aerosol containers are unstable at temperatures above 49°C. Avoid temperatures exceeding the flash point.

10.5. Incompatible materials

BIG O

Safety Data Sheet

Strong oxidizing agents. Nitrates. Fluorine. Chlorine.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Alcohol Ethoxylate (68439-46-3)

LD50 oral rat	1400 mg/kg Estimated
LD50 dermal rabbit	> 5000 mg/kg
ATE CLP (oral)	1400 mg/kg bodyweight

Linear Alcohol Ethoxylate (34398-01-1)

LD50 oral rat	> 1400 mg/kg
---------------	--------------

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Not classified.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: May be fatal if swallowed and enters airways.
Symptoms/effects after inhalation	: None under normal use.
Symptoms/effects after skin contact	: Causes skin irritation. May cause an allergic skin reaction. Repeated exposure may cause skin dryness or cracking.
Symptoms/effects after eye contact	: Direct contact with the eyes is likely to be irritating.
Symptoms/effects after ingestion	: May be fatal if swallowed and enters airways. Risk of aspiration pneumonia. Nausea. Cramps/uncontrolled muscular contractions. Diarrhea.

SECTION 12: Ecological information

12.1. Toxicity

Linear Alcohol Ethoxylate (34398-01-1)	
LC50 - Fish [1]	< 10 mg/l
EC50 - Crustacea [1]	< 10 mg/l
ErC50 algae	< 10 mg/l

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Additional information	: Handle uncleaned empty containers as full ones. Do not re-use empty containers.

SECTION 14: Transport information

Department of Transportation (DOT)

Transport document description (DOT)	: UN1950 Aerosols flammable, (each not exceeding 1 L capacity), 2.1
UN-No.(DOT)	: UN1950
Proper Shipping Name (DOT)	: Aerosols flammable, (each not exceeding 1 L capacity)
Class (DOT)	: 2.1 - Class 2.1 - Flammable gas 49 CFR 173.115

BIG O

Safety Data Sheet

Hazard labels (DOT) : 2.1 - Flammable gas



Marine pollutant : Yes (IMDG only)



DOT Packaging Non Bulk (49 CFR 173.xxx) : None
DOT Packaging Bulk (49 CFR 173.xxx) : None
DOT Special Provisions (49 CFR 172.102) : N82
DOT Packaging Exceptions (49 CFR 173.xxx) : 306
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 75 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 150 kg
DOT Vessel Stowage Location : A
DOT Vessel Stowage Other : 25 - Protected from sources of heat, 87 - Stow "separated from" Class 1 (explosives) except Division 14, 126 - Segregation same as for Class 9, miscellaneous hazardous materials

Additional information

Other information : When transported by ground, this product may be eligible to be shipped as a Limited Quantity utilizing the exception found at 49 CFR 173.306. If any alteration of packaging, product, or mode of transportation is further intended, different shipping names and labeling may be required.

ADR

No additional information available

Transport by sea

UN-No. (IMDG) : UN1950
Proper Shipping Name (IMDG) : Aerosols
Class (IMDG) : 2.1 - Flammable gases

Air transport

UN-No. (IATA) : UN1950
Proper Shipping Name (IATA) : Aerosols, flammable
Class (IATA) : 2.1 - Gases : Flammable

SECTION 15: Regulatory information

All components of this product are listed as Active, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

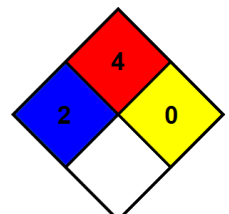
Linear Alcohol Ethoxylate	(34398-01-1)	SARA Section 311/312 Hazard Classes Immediate (acute) health hazard
---------------------------	--------------	---

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard : 4 - Materials that rapidly or completely vaporize at atmospheric pressure and normal ambient temperature or that are readily dispersed in air and burn readily.
NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



Prepared by: Technical Department

BIG O

Safety Data Sheet

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Our company assumes no responsibility for personal injury or property damage to the vendee, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of this material.