Safety Data Sheet

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SECTION 1: Identification

1.1. Product identifier
Foaming Bug Remover (Heavy Duty) G1805 [G180515]

1.2. Recommended use and restrictions on use

Recommended use
Automotive, Bug and Tar Remover

1.3. Supplier's details

MANUFACTURER:	Meguiar's, Inc.
DIVISION:	Meguiar's
ADDRESS:	213 Technology Dr, Irvine, CA 92618
Telephone:	1-800-347-5700

1.4. Emergency telephone number
CHEMTREC 1-800-424-9300 (24 hours)

SECTION 2: Hazard identification

The label elements below were prepared in accordance with OSHA Hazard Communication Standard, 29 CFR 1910.1200. This information may be different from the actual product label information for labels regulated by other agencies.

2.1. Hazard classification
Aerosol Category 1
Specific Target Organ Toxicity (single exposure): Category 1.

2.2. Label elements
Signal word
Danger

Symbols

Flame |Health Hazard |

Pictograms

Hazard Statements
Extremely flammable aerosol.
Pressurized container: may burst if heated.

Causes damage to organs: cardiovascular system.

Precautionary statements
General:
Keep out of reach of children.

Prevention:
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do not spray on an open flame or other ignition source.
Do not pierce or burn, even after use.
Do not breathe vapor or spray.
Wash exposed skin thoroughly after handling.
Do not eat, drink or smoke when using this product.

Response:
IF exposed or concerned: Call a POISON CENTER or doctor.
Specific treatment (see Notes to Physician on this label).

Storage:
Store locked up.
Protect from sunlight. Do not expose to temperatures exceeding 122°F (50°C).

Disposal:
Dispose of contents and container in accordance with applicable local, regional, national, and international regulations.

Notes to Physician:
Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary.

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
ISOBUTANE	75-28-5	1 - 5 Trade Secret *
PETROLEUM GASES, LIQUEFIED, SWEETENED	68476-86-8	0.5 - 1.5 Trade Secret *
SODIUM NITRITE	7632-00-0	< 0.3

*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:
Remove person to fresh air. Get medical attention.

Skin Contact:
Wash with soap and water. If you feel unwell, get medical attention.

Eye Contact:
Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

If Swallowed:
Rinse mouth. If you feel unwell, get medical attention.

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

Target organ effects. See Section 11 for additional details.

4.3. Indication of any immediate medical attention and special treatment required
Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media
Use a fire fighting agent suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture
Closed containers exposed to heat from fire may build pressure and explode.

Hazardous Decomposition or By-Products

Substance	Condition
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion

5.3. Special protective actions for fire-fighters
Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS.

6.2. Environmental precautions
For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up
If possible, seal leaking container. Place leaking containers in a well-ventilated area, preferably an operating exhaust hood, or

if necessary outdoors on an impermeable surface until appropriate packaging for the leaking container or its contents is available. Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible using non-sparking tools. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Keep out of reach of children. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

7.2. Conditions for safe storage including any incompatibilities
Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store away from heat. Store away from acids. Store away from oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits
If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
Natural gas	75-28-5	ACGIH	Limit value not established:	simple asphyxiant

ACGIH : American Conference of Governmental Industrial Hygienists
AIHA : American Industrial Hygiene Association
CMRG : Chemical Manufacturer's Recommended Guidelines
OSHA : United States Department of Labor - Occupational Safety and Health Administration
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls
Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:
Indirect Vented Goggles

Skin/hand protection
No chemical protective gloves are required.

Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:
Half facepiece or full facepiece supplied-air respirator

For questions about suitability for a specific application, consult with your respirator manufacturer.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Specific Physical Form:	Aerosol
Color	Light Green
Odor	Slight Naphtha, Weak Naphtha
Odor threshold	*No Data Available*
pH	8
Melting point	*No Data Available*
Boiling Point	*Not Applicable*
Flash Point	>= 200 ºF [*Test Method:*Pensky-Martens Closed Cup]
Evaporation rate	*No Data Available*
Flammability	Flammable Aerosol: Category 1.
Flammable Limits(LEL)	*No Data Available*
Flammable Limits(UEL)	*No Data Available*
Vapor Pressure	*No Data Available*
Relative Vapor Density	*No Data Available*
Density	8.37 lb/gal
Relative Density	1.0047 [*Ref Std:*WATER=1]
Solubility In Water	*No Data Available*
Solubility- non-water	*No Data Available*
Partition coefficient: n-octanol/ water	*No Data Available*
Autoignition temperature	*No Data Available*
Decomposition temperature	*No Data Available*
Kinematic Viscosity	*No Data Available*
Hazardous Air Pollutants	0 lb HAPS/lb solids
Volatile Organic Compounds	3.5 % weight [*Test Method:*calculated per CARB title 2]
VOC Less H2O & Exempt Solvents	942.7 lb/gal [*Test Method:*calculated SCAQMD rule 443.1]
Particle Characteristics	*Not Applicable*

SECTION 10: Stability and reactivity

10.1. Reactivity
This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

10.2. Chemical stability
Stable.

10.3. Possibility of hazardous reactions
Hazardous polymerization will not occur.

10.4. Conditions to avoid
Heat

10.5. Incompatible materials
Strong acids
Strong oxidizing agents

10.6. Hazardous decomposition products

Substance	Condition
None known.	

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation:
Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. May cause additional health effects (see below).

Skin Contact:
Contact with the skin during product use is not expected to result in significant irritation.

Eye Contact:
Sprayed material may cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Ingestion:
No known health effects.

Additional Health Effects:

Single exposure may cause target organ effects:
Single exposure, above recommended guidelines, may cause: Cardiac Sensitization: Signs/symptoms may include irregular heartbeat (arrhythmia), faintness, chest pain, and may be fatal.

Carcinogenicity:

Ingredient	CAS No.	Class Description	Regulation
Nitrate or nitrite (ingested) under conditions that result in endogenous nitrosation	7632-00-0	Grp. 2A: Probable human carc.	International Agency for Research on Cancer

Toxicological Data
If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

Name	Route	Species	Value
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
ISOBUTANE	Inhalation-Gas (4 hours)	Rat	LC50 276,000 ppm
PETROLEUM GASES, LIQUEFIED, SWEETENED	Inhalation-Gas (4 hours)	Rat	LC50 277,000 ppm
SODIUM NITRITE	Ingestion	Rat	LD50 180 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
ISOBUTANE	Professional judgement	No significant irritation
PETROLEUM GASES, LIQUEFIED, SWEETENED	Professional judgement	No significant irritation
SODIUM NITRITE	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
ISOBUTANE	Professional judgement	No significant irritation
PETROLEUM GASES, LIQUEFIED, SWEETENED	Professional judgement	No significant irritation
SODIUM NITRITE	Rabbit	Severe irritant

Skin Sensitization

For the component/components, either no data are currently available or the data are not sufficient for classification.

Respiratory Sensitization

For the component/components, either no data are currently available or the data are not sufficient for classification.

Germ Cell Mutagenicity

Name	Route	Value
ISOBUTANE	In Vitro	Not mutagenic
PETROLEUM GASES, LIQUEFIED, SWEETENED	In Vitro	Not mutagenic
SODIUM NITRITE	In Vitro	Some positive data exist, but the data are not sufficient for classification
SODIUM NITRITE	In vivo	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
SODIUM NITRITE	Ingestion	Multiple animal species	Some positive data exist, but the data are not sufficient for classification

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
SODIUM NITRITE	Ingestion	Not classified for female reproduction	Mouse	NOAEL 425 mg/kg/day	2 generation
SODIUM NITRITE	Ingestion	Not classified for male reproduction	Mouse	NOAEL 425 mg/kg/day	2 generation
SODIUM NITRITE	Ingestion	Not classified for development	Rat	NOAEL 50 mg/kg/day	gestation into lactation

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
ISOBUTANE	Inhalation	cardiac sensitization	Causes damage to organs	Multiple animal species	NOAEL Not available	
ISOBUTANE	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and animal	NOAEL Not available	
ISOBUTANE	Inhalation	respiratory irritation	Not classified	Mouse	NOAEL Not available	
PETROLEUM GASES, LIQUEFIED, SWEETENED	Inhalation	cardiac sensitization	Causes damage to organs	similar compounds	NOAEL Not available	
PETROLEUM GASES, LIQUEFIED, SWEETENED	Inhalation	central nervous system depression	May cause drowsiness or dizziness		NOAEL Not available	
PETROLEUM GASES, LIQUEFIED, SWEETENED	Inhalation	respiratory irritation	Not classified		NOAEL Not available	
SODIUM NITRITE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
SODIUM NITRITE	Ingestion	methemoglobinemia	Causes damage to organs	Human	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
ISOBUTANE	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 4,500 ppm	13 weeks
PETROLEUM GASES, LIQUEFIED, SWEETENED	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL Not available	
SODIUM NITRITE	Ingestion	skin	Not classified	Rat	NOAEL 310 mg/kg/day	14 weeks
SODIUM NITRITE	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 310 mg/kg/day	14 weeks
SODIUM NITRITE	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 310 mg/kg/day	14 weeks
SODIUM NITRITE	Ingestion	eyes	Not classified	Rat	NOAEL 310 mg/kg/day	14 weeks
SODIUM NITRITE	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 310 mg/kg/day	14 weeks
SODIUM NITRITE	Ingestion	heart	Not classified	Rat	NOAEL 310 mg/kg/day	14 weeks
SODIUM NITRITE	Ingestion	endocrine system	Not classified	Rat	NOAEL 310 mg/kg/day	14 weeks
SODIUM NITRITE	Ingestion	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 310 mg/kg/day	14 weeks
SODIUM NITRITE	Ingestion	liver	Not classified	Rat	NOAEL 310 mg/kg/day	14 weeks
SODIUM NITRITE	Ingestion	immune system	Not classified	Rat	NOAEL 310	14 weeks

					mg/kg/day	
SODIUM NITRITE	Ingestion	muscles	Not classified	Rat	NOAEL 310 mg/kg/day	14 weeks
SODIUM NITRITE	Ingestion	nervous system	Not classified	Rat	NOAEL 310 mg/kg/day	14 weeks
SODIUM NITRITE	Ingestion	respiratory system	Not classified	Rat	NOAEL 310 mg/kg/day	14 weeks

Aspiration Hazard
For the component/components, either no data are currently available or the data are not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information

Ecotoxicological information

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

Chemical fate information

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

SECTION 13: Disposal considerations

13.1. Disposal methods
Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Incinerate in a permitted waste incineration facility. Facility must be capable of handling aerosol cans. As a disposal alternative, utilize an acceptable permitted waste disposal facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

SECTION 14: Transport Information

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

SECTION 15: Regulatory information

15.1. US Federal Regulations

Contact manufacturer for more information

EPCRA 311/312 Hazard Classifications:

Physical Hazards
Flammable (gases, aerosols, liquids, or solids)

Health Hazards
Specific target organ toxicity (single or repeated exposure)

This material contains a chemical which requires export notification under TSCA Section 12[b]:

Ingredient (Category if applicable)	C.A.S. No	Regulation	Status
SODIUM NITRITE	7632-00-0	Toxic Substances Control Act (TSCA) 5 SNUR or Consent Order Chemicals	Applicable

This material contains a chemical regulated by an EPA Significant New Use Rule (TSCA Section 5)

Ingredient (Category if applicable)	C.A.S. No	Reference
SODIUM NITRITE	7632-00-0	40CFR721.4740

15.2. State Regulations
Contact manufacturer for more information

15.3. Chemical Inventories
The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

Contact manufacturer for more information

15.4. International Regulations
Contact manufacturer for more information

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: Other information

NFPA Hazard Classification
Health: 2 **Flammability:** 1 **Instability:** 0 **Special Hazards:** None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

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