

SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Product Name: BIG BATH GC⁴ CLEANER/DEGREASER

SECTION 1- PRODUCT AND COMPANY IDENTIFICATION

Product Type: Cleaner/Degreaser
Product Name: **BIG BATH GC⁴ CLEANER/DEGREASER**
Part Number: **19-905-A**
Emergency Contact: **Chemtrec**
Phone: **(800) 424-9300**

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

Flam. Aerosol 1 _ H222; Compressed gas _ H280; Muta. 1B _ H340; Carc. 1B _ H350;
Repr. 2 _ H361; STOT SE 1 _ H370; STOT RE 2 _ H373
Full text of H-phrases: see section 16

GHS label elements

Hazard Symbol



Signal word(s) **DANGER**

Hazard Extremely flammable aerosol.

Statement(s) Contains gas under pressure; may explode if heated.
May cause genetic defects (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard) May cause cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)
Suspected of damaging fertility or the unborn child (state specific effect if known)(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)

Precautionary Statement(s) Causes damage to organs (or state all organs affected, if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)
May cause damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
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 dust/fume/gas/mist/vapors/spray.
Wear protective gloves/protective clothing/eye protection/face protection.
Wash affected areas thoroughly after handling. Do not eat, drink or smoke when using this product.
IF exposed: Call a POISON CENTER or doctor/physician. IF exposed or concerned: Get medical advice/attention.
Get medical advice/attention if you feel unwell. Specific treatment (see section 4.1 on this label).
Store locked up. Store in a well-ventilated place.
Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F.
Dispose of contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations.

Other hazards which do not result in classification : Contains gas under pressure; may explode if heated.



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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	% wt.*	CAS No.	Hazard classification
2-Propanol	20 - 30	67-63-0	Muta. 1B, H340 Carc. 1B, H350 Asp. Tox. 1, H304
1,1-Difluoroethane, liquefied, under pressure	10 - 30	75-37-6	Liquefied Gas; H280
n-hexane	20 - 30	110-54-3	Flam. Liq. 2, H225, Skin Irrit. 2, H315, Repr. 2, H361, STOT SE 3, H336, STOT RE 2, H373, Asp. Tox. 1, H304, Aqua c Chronic 2, H411

Additional Information: None

SECTION 4: FIRST AID MEASURES

Description of first aid measures

First-aid measures general:

Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention. Call a POISON CENTER or doctor/physician.

First-aid measures after inhalation:

Cough. Remove to fresh air and keep at rest in a position comfortable for breathing.

First-aid measures after skin contact:

Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

First-aid measures after eye contact:

Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. Direct contact with the eyes is likely to be irritating. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion:

Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

Most important symptoms/effects, acute and delayed

Symptoms/injuries:

Suspected of damaging fertility or the unborn child. May cause genetic defects. May cause cancer. Causes damage to organs.

Symptoms/injuries after inhalation:

Shortness of breath.

Indication of immediate medical attention and special treatment needed, if necessary

No additional information available.



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SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media	Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable Extinguishing Media	Do not use a heavy water stream.
Special hazards arising from the the chemical	
Fire hazard:	Extremely flammable gas. Extremely flammable aerosol.
Explosion hazard:	Heat may build pressure, rupturing closed containers, spreading fire an increasing risk of burns and injuries.
Special protective actions for fire-fighters	
Fire hazard:	Extremely flammable gas. Extremely flammable aerosol.
Explosion hazard:	Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
Other information:	Aerosol level 3.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	
General measures:	Eliminate every possible source of ignition. No naked lights. No smoking. Isolate from fire, if possible, without unnecessary risk. Remove ignition sources. Use special care to avoid static electric charges.
For non-emergency personnel Protective equipment:	Gloves. Safety glasses.
Emergency procedures:	Evacuate unnecessary personnel.
For emergency responders	
Protective equipment:	Equip cleanup crew with proper protection. Avoid breathing dust, fume, gas, mist, vapor spray.
Emergency procedures:	Ventilate area.
Environmental precautions	
Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.	
Methods and materials for containment and cleaning up	
For containment:	Dam up the liquid spill.
Methods for cleaning up:	Store away from other materials.

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SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Additional hazards when processed: Flammable gas. Hazardous waste due to potential risk of explosion.
Pressurized container: Do not pierce or burn, even after use.

Precautions for safe handling:

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not spray on an open flame or other ignition source. Obtain special instructions. Do not handle until all safety precautions have been read and understood. Eliminate all ignition sources if safe to do so. Avoid breathing dust, fumes, gas, mist, vapor spray. Do not breathe dust, fumes, gas, mist, vapor spray.

Hygiene measures:

Wash affected areas thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Technical measures:

Proper grounding procedures to avoid static electricity should be followed.

Storage conditions:

Keep only in the original container in a cool, well ventilated place away from sunlight. Keep container closed when not in use. Do not expose to temperatures exceeding 50 °C/ 122 °F. Keep in fireproof place.

Incompatible products:

Strong bases. Strong acids.

Incompatible materials:

Sources of ignition. Direct sunlight. Heat sources.

Storage area:

Store in a well-ventilated place.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Appropriate engineering controls

Local exhaust ventilation, vent hoods.

Individual protection measures

Gloves. Safety glasses. Avoid all unnecessary exposure.



Hand protection:

Wear protective gloves.

Eye protection:

Chemical goggles or safety glasses.

Skin and body protection:

Wear suitable protective clothing.

Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.

Other information:

Do not eat, drink or smoke during use.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties

Physical state:	Gas
Appearance:	Clear, colorless liquid.
Color:	Colorless.
Odor:	Characteristic.
Odor threshold:	No data available
pH:	No data available
Relative evaporation rate (butyl acetate=1):	No data available
Melting point:	-62 °C Lowest Component
Freezing point:	No data available
Boiling point:	37 °C Lowest Component
Flash point:	< -18 °C Lowest Component
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Flammability (solid, gas):	No data available
Vapor pressure:	No data available
Relative vapor density at 20 °C:	No data available
Relative density:	0.69
Solubility:	Insoluble in water.
Log Pow:	No data available
Viscosity, kinematic:	0.83 cSt
Viscosity, dynamic:	No data available
Explosive properties:	No data available
Oxidizing properties:	No data available
Explosive limits:	No data available

Other information

VOC content: 45 %

SECTION 10: STABILITY AND REACTIVITY

Reactivity	No additional information available.
Chemical stability	Extremely flammable gas. Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Extreme risk of explosion by shock, friction, fire or other sources of ignition.
Possibility of hazardous reactions	Not established.



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SECTION 10: STABILITY AND REACTIVITY (CONTINUED)

Conditions to avoid	Direct sunlight. Extremely high or low temperatures. Heat. Sparks. Open flame. Overheating.
Incompatible materials	Strong acids. Strong bases.
Hazardous decomposition products	Toxic fume. Carbon monoxide. Carbon dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicological (health) effects

Acute toxicity: Not classified

Numerical measures of toxicity (such as acute toxicity estimates)

1,1-Difluoroethane, liquefied, under pressure (75-37-6)

LC50 inhalation rat (mg/l)	176 mg/l/4h (Rat; Literature study)
LC50 inhalation rat (ppm)	> 437500 ppm/4h Mortality in 2/6 at 43.75% and 1/6 at 38.3%. At ≥ 17.52% lethargy, laboured breathing, reduced responsiveness to sound were observed. At 6.64% only hyperaemia and shallow breathing were observed.

SECTION 12: ECOLOGICAL INFORMATION

Persistence and degradability

CLEANER

Persistence and degradability Not established.

1,1-Difluoroethane, liquefied, under pressure (75-37-6)

Persistence and degradability Biodegradability in water: no data available.

n-hexane (110-54-3)

Persistence and degradability May cause long-term adverse effects in the environment.

Isopropanol (6763-0)

Persistence and degradability Not established.

Bioaccumulative potential

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Bioaccumulative potential Not established.



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SECTION 12: ECOLOGICAL INFORMATION (CONTINUED)

1,1-Difluoroethane, liquefied, under pressure (75-37-6)

Log Pow 0.75 (Experimental value)
Bioaccumulative potential Low potential for bioaccumulation (Log Kow < 4).

n-hexane (110-54-3)

Bioaccumulative potential Not established.

Isopropanol (6763-0)

Bioaccumulative potential Not established.

Mobility in soil None

Other adverse effects

Other information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal methods

Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations. Container under pressure. Do not drill or burn even after use. Dispose of contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations.

Additional information: Flammable vapors may accumulate in the container.

Ecology - waste materials: Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

UN Number

US DOT (ground): UN1950, Aerosols, 2.1, Limited Quantity

ICAO/IATA (air): IM UN1950, Aerosols, 2.1, Limited Quantity

IMO/IMDG (water): UN1950, Aerosols, 2.1, Limited Quantity

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SECTION 14: TRANSPORT INFORMATION (CONTINUED)

Special Provisions: N82 - See 173.306 of this subchapter for classification criteria for flammable aerosols.

UN Proper Shipping Name

Aerosols flammable, (each not exceeding 1 L capacity)

Transport hazard class(es)

2.1 - Class 2.1 - Flammable gas 49 CFR 173.115



Hazard labels (DOT)

2.1 - Flammable gas

DOT Special Provisions (49 CFR 172.102):

N82 - See 173.306 of this subchapter for classification criteria for flammable aerosols.

**Packing group, if applicable
DOT Packaging Exceptions (49 CFR 173.xxx):**

306

DOT Packaging Non Bulk (49 CFR 173.xxx):

None

DOT Packaging Bulk (49 CFR 173.xxx):

None

Special precautions for user

Overland transport

No additional information available

Transport by sea

DOT Vessel Stowage Location:

A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

DOT Vessel Stowage Other:

48 - Stow "away from" sources of heat, 87 - Stow "separated from" Class 1 (explosives) except Division 14, 126 - Segregation same as for Class 9, miscellaneous hazardous materials

Air transport

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27):

75 kg

DOT Quantity Limitations: Cargo aircraft only (49 CFR 175.75):

150 kg



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SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product in question US Federal regulations

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SARA Section 311/312 Hazard Classes: Delayed (chronic) health hazard
Fire hazard
Immediate (acute) health hazard

1,1-Difluoroethane, liquefied, under pressure (75-37-6)

SARA Section 311/312 Hazard Classes: Fire hazard
Sudden release of pressure hazard
Immediate (acute) health hazard

International regulations

Canada

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WHMIS Classification: Class A - Compressed Gas
Class B Division 5 - Flammable Aerosol

EU-Regulations No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC or 1999/45/EC

Carc.Cat.2; R45
Muta.Cat.2; R46
Repr.Cat.3; R62
F+; R12
Xn; R20/21/22
Xn; R68/20/21/22
Full text of R-phrases: see section 16

National regulations No additional information available

US State regulations

1,1-Difluoroethane, liquefied, under pressure (75-37-6)

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

U.S. - Massachusetts - Right To Know List



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SECTION 16: OTHER INFORMATION

Other information

Indication of changes: Revision - See : *.

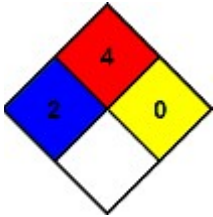
Other information: None

Full text of H-phrases: see section 16:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Asp. Tox. 1	Aspiration hazard Category 1
Carc. 1B	Carcinogenicity Category 1B
Compressed gas	Gases under pressure Compressed gas
Flam. Aerosol 1	Flammable aerosol Category 1
Flam. Liq. 2	Flammable liquids Category 2
Liquefied gas	Gases under pressure Liquefied gas
Muta. 1B	Germ cell mutagenicity Category 1B
Repr. 2	Reproductive toxicity Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 1	Specific target organ toxicity (single exposure) Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H222	Extremely flammable aerosol
H225	Highly flammable liquid and vapor
H280	Contains gas under pressure; may explode if heated
H301	Toxic if swallowed
H304	May be fatal if swallowed and enters airways
H311	Toxic in contact with skin
H315	Causes skin irritation
H331	Toxic if inhaled
H336	May cause drowsiness or dizziness
H340	May cause genetic defects
H350	May cause cancer
H361	Suspected of damaging fertility or the unborn child
H370	Causes damage to organs
H373	May cause damage to organs through prolonged or repeated exposure
H411	Toxic to aquatic life with long lasting effects

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SECTION 16: OTHER INFORMATION (CONTINUED)



NFPA health hazard:

2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

NFPA fire hazard:

4 - Will rapidly or completely vaporize at normal pressure and temperature, or is readily dispersed in air and will burn readily.

NFPA reactivity:

0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

HMIS III Rating

Health:

2 Moderate Hazard - Temporary or minor injury may occur

Flammability:

4 Severe Hazard

Physical:

1 Slight Hazard

Personal Protection:

B

SECTION 16: OTHER INFORMATION

GC Electronics believes that the information contained herein is accurate and reliable as of the date of this material safety data sheet, but no representation guarantee or warranty, express or implied, is made as to the accuracy, reliability or completeness of the information. Persons receiving information are encouraged to make their own determination as to the information's suitability and completeness for their particular application. NO INFORMATION CONTAINED HEREIN CONSTITUTES A PRODUCT WARRANTY OF ANY KIND, WHETHER EXPRESS OR IMPLIED; AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED BY GC ELECTRONICS.