

Phone: (815) 968-9661 Fax: (815) 968-9731 www.gcelectronics.com MSDS Number: 282 Revision Date: 04/21/2015 Supersedes Date: 07/23/2012

# **SAFETY DATA SHEET**

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Product Name: BIG BATH GC3 CLEANER/DEGREASER

### **SECTION 1- PRODUCT AND COMPANY IDENTIFICATION**

Product Type: Cleaner/Degreaser

Product Name: BIG BATH GC<sup>3</sup> CLEANER/
DEGREASER

Part Number(s): 19-905

19-906

**Emergency Contact: Chemtrec** 

Phone: (800) 424-9300

### **SECTION 2: HAZARDS IDENTIFICATION**

Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200)

Label elements

Hazard Symbol

Flam. Aerosol 1; Liquefied gas; Skin Irrit. 2; Eye Irrit. 2; STOT SE 3



Signal word(s)

Hazard Statement(s)

Extremely flammable aerosol.

Contains gas under pressure; may explode if heated.

Causes skin irritation.

Causes serious eye irritation.

May cause drowsings or dizzing

May cause drowsiness or dizziness.

Precautionary Statement(s) 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.

Wear protective gloves/eye protection.

Wash hands and exposed skin after use.

Avoid breathing spray.

Use only outdoors or in a well-ventilated area.

Protect from sunlight. Do no expose to temperatures exceeding 50°C/ 122°F.

Other hazards Intentional inhalation of gas from the container may be fatal. Harmful to

aquatic life. Harmful to aquatic life with long lasting effects.

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### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Hazardous Ingredient(s)	% wt.*	CAS No.	Hazard classification
1,1,1,2-Tetrafluoroethane	50 - 70	811-97-2	Liquified Gas; H280
1,1,1,2 Tellandoroctilano	00 10	011 07 2	Simple Asphyxiant
			Flam. Liq. 1; H224
			Acute Tox. 4; H302
			STOT SE 3: H336
Trans-1,2-Dichloroethylene	< 25	156-60-5	Skin Irrit. 2; H315
			Eye Irrit. 2; H319
			Aquatic Acute 3; H402
			Aquatic Chronic 3; H412
			Compressed dissolved gas; H280
1,1,1,2,2,3,4,5,5,5-Decafluoropentane	10 - 20	138495-42-8	Simple Asphyxiant
,,,,, <u>,,</u> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	20		Aquatic Acute 3; H402
			Aquatic Chronic 3; H412
Ethanol	1 - 5	64-17-5	Flam. Liq. 2; H225
			Eye Irrit. 2: H319
			Flam. Liq. 2; H225
Methanol	<1	67-56-1	Acute Tox. 3; H301, H311, H331
			STOT SE 1; H370
			Flam. Liq. 2; H225
Isopropanol	<0.5	67-63-0	Eye Irrit. 2; H319
		STOT SE 3; H336	
			Flam. Liq. 2; H225
Methyl isobutyl ketone	<0.5	108-10-1	Acute Tox. 4; H332
			STOT SE 3: H335

#### Additional Information: None

## **SECTION 4: FIRST AID MEASURES**



#### Description of first aid measures

Inhalation If inhaled: Remove person to fresh air and keep comfortable for

breathing. If breathing is labored, administer oxygen. If symptoms  $% \left( 1\right) =\left( 1\right) \left( 1\right)$ 

develop, obtain medical attention.

Skin Contact Wash affected skin with soap and water. If irritation (redness, rash,

blistering) develops, get medical attention.

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.

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<sup>\*</sup> The exact percentage withheld as a trade secret in accordance with 29 CFR 1910.1200



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Product Name: BIG BATH GC3 CLEANER/DEGREASER

**SECTION 4: FIRST AID MEASURES (CONTINUED)** 

Ingestion Do not induce vomiting. Do not give anything by mouth to an

unconscious person. Rinse mouth.

Most important symptoms and effects, both acute and

delayed

Indication of any immediate medical attention and

special treatment needed

None

None

**SECTION 5: FIRE-FIGHTING MEASURES** 

**Extinguishing Media** 

-Suitable Extinguishing Media Extinguish with carbon dioxide, dry chemical, foam or water spray.

None

-Unsuitable Extinguishing Media Do not use water jet.

Special hazards arising from the substance or

mixture

Advice for fire-fighters A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Keep containers cool by spraying with water if

exposed to fire.

**SECTION 6: ACCIDENTAL RELEASE MEASURES** 

Personal precautions, protective equipment and

emergency procedures

Eliminate sources of ignition. Avoid contact with skin and eyes. Avoid

breathing spray. Wear protective gloves/eye protection.

**Environmental precautions** Prevent liquid entering sewers, basements and work pits. Avoid release to

the environment.

Methods and material for containment and

cleaning up

Cover spills with inert absorbent material. Transfer to a container for disposal

or recovery.

Reference to other sections None Additional Information None

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Product Name: BIG BATH GC3 CLEANER/DEGREASER

### **SECTION 7: HANDLING AND STORAGE**

Precautions for safe handling Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking. Use product in a well-ventilated area only. Avoid contact with skin and eyes. Avoid breathing spray. Wear protective

gloves/eye protection.

Conditions for safe storage, including any incompatibilities

-Storage temperature Store in a well-ventilated place. Protect from sunlight. Do not expose to

temperatures exceeding 50°C/122°F. Keep container tightly closed. Store

locked up.

-Incompatible materials This product should be stored away from sources of strong heat , oxidizing

agents, and reducing agents. Strong Acids, strong bases and reactive metals. Do not mix with finely divided alkali or alkaline earth metals.

Specific end use(s) Cleaner / Degreaser

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational Exposure Limits** 

		(8hr TWA)		(STEL)		
		PEL	TLV	PEL	TLV	
SUBSTANCE.	CAS No.	(OSHA)	(ACGIH)	(OSHA)	(ACGIH)	Note:
Trans-1,2-Dichloroethylene	156-60-5	200 ppm	200 ppm			
Ethanol	64-17-5	1000 ppm			1000 ppm	
Methanol	67-56-1	200 ppm	200 ppm		250 ppm	Skin
Isopropanol	67-63-0	400 ppm		200 ppm	400 ppm	
Methyl Isobutyl Ketone	108-10-1	100 ppm	20 ppm		75 ppm	A3

A3 = Confirmed Animal Carcinogen

Recommended monitoring method NIOSH 1003 (Hydrocarbons, Halogenated); NIOSH 1400 (Alcohols I);

NIOSH 2000 (Methanol); ), NIOSH 1300 (Ketones I)

**Exposure controls** 

Appropriate engineering controls

Use only with adequate ventilation to keep exposures (airborne levels

of dust, fume, vapour etc) below recommended exposure limits.

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Product Name: BIG BATH GC3 CLEANER/DEGREASER

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (CONTINUED)

#### Personal protection equipment

Eye/face protection

Wear protective eyewear (goggles, face shield, or safety glasses).



Skin protection (Hand protection/ Other)

kin protection (Hand protection/ Other)

Wear suitable gloves if prolonged skin contact is likely. Check with

protective equipment manufacturer's data.



Respiratory protection



Normally no personal respiratory protection is necessary. In case of insufficient ventilation, wear suitable respiratory equipment. Check with

protective equipment manufacturer's data.

Thermal hazards Not normally required. Use gloves with insulation for thermal protection,

when needed.

**Environmental Exposure Controls**Avoid release to the environment.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Information on basic physical and chemical properties

Appearance Color.

Odor Odor Threshold (ppm) pH (Value)

Melting Point (°C) / Freezing Point (°C)

Boiling point/boiling range (°C):

Flash Point (°C) Evaporation Rate Flammability (solid, gas) Explosive Limit Ranges

Vapor pressure (Pascal) Vapor Density (Air=1)

Density (g/ml)
Solubility (Water)
Solubility (Other)

Partition Coefficient (n-Octanol/water)

Auto Ignition Point (°C)

Decomposition Temperature (°C) Kinematic Viscosity (cSt) Explosive properties

Oxidizing properties

Other information

Aerosol spray

Clear Pleasant

Not available Not available

< -40 (< -40 °F) > -25 (> -13 °F)

6 (42.8 °F) Not available Flammable aerosol

~ 9% - 13%

> 4.4 x 10<sup>4</sup> (> 331 mmHg)

> 1

Not available
Not available
Not available
Not available
~ 460 (860 °F)
Not available
Not available
Not explosive.

None

Not oxidizing.

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Product Name: BIG BATH GC3 CLEANER/DEGREASER

### **SECTION 10: STABILITY AND REACTIVITY**

Reactivity Stable under normal conditions.

Chemical stability Stable.

Possibility of hazardous reactions None anticipated.

Conditions to avoid Avoid contact with heat and ignition sources.

Incompatible materials

This product should be stored away from sources of strong heat, oxidizing agents, and reducing agents. Strong Acids, strong bases

oxidizing agents, and reducing agents. Strong Acids, strong bases and reactive metals. Do not mix with finely divided alkali or alkaline

earth metals.

Hazardous decomposition product(s)

Carbon monoxide, Carbon dioxide, Acrid smoke, Hydrogen chloride,

Phosgene gas, Chlorine gas, Hydrogen Flouride, Carbonyl Fluoride,

Fluorinated Hydrocarbons.

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

Exposure routes: Inhalation, Skin Contact, Eye Contact

### Information on toxicological effects

Trans-1,2-dichloroethylene (CAS No. 156-60-5):

Acute toxicity (calculated / estimated) Oral LD50 = 770 mg/kg (rat)

Dermal LD50 >5000 mg/kg (rabbit)

Inhalation LC50 2410 ppm (4 hour(s)) (rat) - Vapours may cause

drowsiness and dizziness.

Irritation/Corrosivity Causes skin irritation. Causes serious eye irritation. Repeated

exposure may cause skin dryness or cracking.

Sensitization It is not a skin sensitizer.

Repeated dose toxicity Inhalation NOAEL 4000 ppm (rat) (90-days)

**Carcinogenicity** It is unlikely to present a carcinogenic hazard to man.

NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	No.	No.	No.

MutagenicityNegativeReproductive toxicityNegativeOther informationNone known.

Methanol (CAS# 67-56-1):

Acute toxicity \* LD50 (oral, monkey): 7000 mg/kg-bw

LD0 (oral, rat): ≥ 2528 mg/kg-bw LC50 (inhal., cat, 6-hours): 43.68 mg/L LC50 (inhal., monkey, 4-hours): 52 mg/L Ingestion may damage the optic nerve. May cause dizziness and drowsiness.

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## **SECTION 11: TOXICOLOGICAL INFORMATION (CONTINUED)**

IrritationMay cause eye irritation.SensitisationIt is not a skin sensitiser.

 Repeated dose toxicity
 NOAEC (2-yr. inhal., mouse): ≥ 1.3 mg/L

 Developmental Toxicity
 Negative. Not a specific developmental toxin.

 Toxicity for reproduction
 Negative. Not a specific reproductive toxin.

Carcinogenicity

NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	No.	No.	No.

Other information \* ATE (oral) = 100 mg/kg

\* ATE (dermal) = 300 mg/kg

\* ATE (inhalation) = 3 mg/L

#### Methyl Isobutyl Ketone (CAS No. 108-10-1)

Acute toxicity Oral LD50 = 2080 mg/kg (rat)

Inhalation LC50 >8 mg/l - < 16 mg/l (4 hour(s)) (rat) - May cause

respiratory irritation.

Irritation / Corrosivity Unlikely to cause eye irritation. Unlikely to cause skin irritation.

Sensitisation It is not a skin sensitiser.

Repeated dose toxicity Oral NOAEL = 50 mg/kg/day (rat) (90-days) -

Inhalation NOAEL = 450 ppm (rat) - Kidneys (This effect is unlikely to occur in humans, provided exposure is maintained at or below

the occupational exposure limit.)

Carcinogenicity It is unlikely to present a carcinogenic hazard to man.

NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	A3	No.	No.

A3 = Confirmed Animal Carcinogen

Mutagenicity Negative
Toxicity for reproduction Negative
Other information None known.

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<sup>\*</sup>ATE = Acute Toxicity Estimate for purposes of classification



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### **SECTION 12: ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

Trans-1,2-dichloroethylene (CAS No. 156-60-5):

Short term LC50 (96 hour): 74 - 290 mg/L (Fish)

LC50 (48 hour): 79 mg/L (Daphnia magna)

LC50 (96 hour): 798 mg/L (Algae)

Long Term NOEC (28 days): <110 mg/L (Fish)

1,1,1,2,2,3,4,5,5,5-Decafluoropentane (CAS No. 138495-42-8):

Short term LC50 (96 hour): 13.9 - 27.2 mg/L (Fish)

LC50 (48 hour): 11.7 mg/L (Daphnia magna)

Long Term No data

Persistence and degradability Not readily biodegradable.

Bioaccumulative potential The product has a low potential for bioaccumulation.

Mobility in soilMay evaporate quickly.Results of PBT and vPvB assessmentNot classified as PBT or vPvB.

Other adverse effects None known.

### **SECTION 13: DISPOSAL CONSIDERATIONS**

Waste treatment methods Disposal should be in accordance with local, state or national

legislation. Consult an accredited waste disposal contractor or the

Air transport

Sea transport

local authority for advice.

# **SECTION 14: TRANSPORT INFORMATION**

	<u>U.S. DOT</u>	(IMDG)	(ICAO/IATA)
UN number	1950	1950	1950
Proper Shipping Name	Aerosols, flammable	Aerosols, flammable	Aerosols, flammable
Transport hazard class(es)	2.1	2.1	2.1
Packing group	Not applicable	Not applicable	Not applicable
Environmental hazards	None assigned	None assigned	None assigned
Special precautions for user	None assigned	None assigned	None assigned
	· ·	•	•

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

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#### **SECTION 15: REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or mixture:

TSCA (Toxic Substance Control Act) - Inventory Status: All components listed or polymer exempt.

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
Trans-1,2-Dichloroethylene	156-60-5	20	1000
Methanol	67-56-1	< 1	5000
Methyl Isobutyl Ketone	108-10-1	< 1	5000

### SARA 311/312 - Hazard Categories:

☐ Fire ☐ Sudden Release ☐ Reactivity ☐ Immediate (acute) ☐ Chronic (delayed)

### SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
Methanol	67-56-1	< 1
Methyl Isobutyl Ketone	108-10-1	< 1
Isopropanol	67-63-0	< 1

### SARA 302 - Extremely Hazardous Substances (40 CFR 355):

Chemical Name	CAS No.	Typical %wt.	TPQ (pounds)
None			

#### California Proposition 65 List:

Chemical Name	CAS No.	Type of Toxicity
Methanol	67-56-1	Developmental

### **SECTION 16: OTHER INFORMATION**

Hazard Statement(s) and Risk Phrases Listed in: SECTION 2:/ SECTION 3:

#### Hazard Statement(s)

- H224: Extremely flammable liquid and vapour.
- H225: Highly flammable liquid and vapour.
- H280: Contains gas under pressure; may explode if heated.
- H301: Toxic if swallowed.
- H302: Harmful if swallowed.
- H311: Toxic in contact with skin
- H315: Causes skin irritation.
- H319: Causes serious eye irritation.
- H331: Toxic if inhaled.
- H332: Harmful if inhaled.
- H335: May cause respiratory irritation.
- H336: May cause drowsiness or dizziness.
- H370: Causes damage to organs: Optic nerve, Central nervous system)
- H402: Harmful to aquatic life.
- H412: Harmful to aquatic life with long lasting effects.

Training advice: None.

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Product Name: BIG BATH GC<sup>3</sup> CLEANER/DEGREASER

## **SECTION 16: OTHER INFORMATION (CONTINUED)**

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 MERCHANT ABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED BY GC ELECTRONICS.

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