



1801 Morgan Street
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Phone: (815) 968-9661
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MSDS Number: 282
Revision Date: 7/23/2012
Supersedes Date: 3/27/2009

MATERIAL 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	Emergency Contact:	Chemtrec
Product Name:	BIG BATH GC³ CLEANER/DEGREASER	Phone:	(800) 424-9300
Part Number(s):	19-905 19-906		

COMMON NAME (used on label)(Trade Name & Synonyms): **GC Big Bath³ Cleaner Degreaser**

CAS. NUMBER: See Section 2

CHEMICAL NAME: Hydrofluorocarbon

CHEMICAL FAMILY: N/A

FORMULA: N/A

HMIS RATINGS

		Minimal Hazard	0
		Slight Hazard	1
Health:	1	Moderate Hazard	2
Flammability:	0	Serious Hazard	3
Reactivity:	1	Severe Hazard	4
Personal Protection:	B	Gloves, Safety Glasses	B

SECTION 2- HAZARDOUS INGREDIENTS

Principal Hazardous Component(s)

CHEMICAL AND COMMON NAME(S)	CAS. #	OSHA PEL	ACGIH TLV	VAPOR PRESSURE @ 25 DEG. C.	LEL	UEL	FLASH POINT DEG. F	% BY WEIGHT
1,1,1,2-Tetrafluoroethane**	811-97-2	N/A*	N/A*	96 psia	Nonflammable		None	50-60
Trans, Dichloroethylene	156-60-5	N/E	200ppm	400mmHg	6.7	18	36° (CC)	20-30
Decafluoropentane* (HFC 43-10)	138495-42-8	N/E	N/E	366mmHg	N/A	N/A	0°	10-20
Ethyl Alcohol	64-17-5	1000 ppm	1000ppm	44mmHg	3.3	19.0	54° (TCC)	5 - 10
Pentafluoropropane***	460-73-1	N/E	N/E	17.8psia	None	None	None	<5

*Limit established by The E.I.DuPont Company is 200ppm

**Limit established by The E.I. DuPont Company is 1000ppm

***Limited established by Honeywell is 300ppm

N/A is not available or not applicable

N/E is not established



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SECTION 3- PHYSICAL DATA

BOILING POINT (Deg. F):	Concentrate Range: 60
SPECIFIC GRAVITY	
(Water = 1):	Concentrate: 1.3 Propellant: 1.2
VAPOR PRESSURE (mmHg):	See Section 2
PERCENT VOLATILE BY	
WEIGHT (%):	100%
PERCENT VOC:	<30%
VAPOR DENSITY (Air = 1):	>1
EVAPORATION RATE (BA = 1):	>1
SOLUBILITY IN WATER:	Negligible
REACTIVITY IN WATER:	None
APPEARANCE AND ODOR:	CONCENTRATE: Clear liquid, irritating odor at high concentrations. PROPELLANT: Colorless, odorless gas. FINISHED PACKAGE: Pressurized containers.

SECTION 4- FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:	See Section 2
FLAMMABLE LIMITS IN AIR	
- % BY VOLUME:	See Section 2
EXTINGUISHER MEDIA:	Water fog, dry chemical, carbon dioxide
AUTO-IGNITION	
TEMPERATURE:	Unknown
SPECIAL FIRE FIGHTING	
PROCEDURES:	Water may be used to cool closed containers to prevent pressure build-up and possible bursting when exposed to high temperatures. Firemen should wear self-contained, positive pressure, respiratory equipment.
UNUSUAL FIRE AND	
EXPLOSION HAZARDS:	Contents under pressure. Self-pressurized aerosol containers. Keep temperature of containers below 120 Deg °F. to prevent bursting. Hazardous decomposition products.



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SECTION 5- HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: See Section 2

SIGNS AND SYMPTOMS OF EXPOSURE:

EYE CONTACT:

Contact with liquid or mist may cause irritation. Vapors may irritate eyes;

SKIN CONTACT:

Prolonged contact may cause irritation, defatting of skin;

INHALATION:

Overexposure to vapor may cause dizziness, loss of concentration and irritation. With high exposure levels, effects can include central nervous system (CNS), depression (intoxication) and cardiac arrhythmia. Product vapors displace air and can cause suffocation especially in confined space. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS OF THE CAN MAY BE HARMFUL OR FATAL.

INGESTION:

Aspiration may cause rapid absorption through the lungs, which may result in systemic effects.

IMPORTANT NOTICE: REPEATED AND PROLONGED OVEREXPOSURE TO SOLVENTS MAY LEAD TO PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. EYE WATERING, HEADACHES, NAUSEA, DIZZINESS AND LOSS OF COORDINATION ARE SIGNS THAT SOLVENT LEVELS ARE TOO HIGH. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

EMERGENCY AND FIRST AID PROCEDURES

INHALATION:

Remove to fresh air. If not breathing, give mouth-to-mouth. If breathing is difficult, give oxygen. Do not give epinephrine or similar drugs. Call a physician.

EYES:

Flush with water for at least 15 minutes. Get medical assistance if irritation persists.

SKIN:

Wash off in flowing water or shower. Remove contaminated clothing and wash before reuse.

INGESTION:

Do **NOT** induce vomiting. Call a physician immediately.

NOTE TO PHYSICIANS: BECAUSE OF POSSIBLE DISTURBANCES OF CARDIAC RHYTHM, CATECHOLAMINE DRUGS, SUCH AS EPINEPHRINE, SHOULD ONLY BE USED WITH SPECIAL CAUTION IN SITUATIONS OF EMERGENCY LIFE SUPPORT.



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SECTION 6- REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: Avoid any excessive heat, ignition sources, open flames, or other high temperatures which induce thermal decomposition.

INCOMPATIBILITY (Materials to Avoid): Chemically Active Metals. Oxidizing agents. Sodium, Potassium, Calcium, etc. Alkali or alkaline earth metals. Powdered Aluminum, Zinc, Magnesium, Beryllium, etc.

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrofluoric acid, hydrochloric acid, possibly carbonyl fluoride. See SECTION 5 - HEALTH HAZARDS: Signs and Symptoms of Exposure.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Not Applicable

SECTION 7- SPILL OR LEAK PROCEDURES

SMALL SPILLS: Remove ignition sources. Mop up, wipe up, or soak up immediately. Use proper protective equipment.

LARGE SPILLS: Evacuate area. Remove ignition sources. Contain liquid; transfer to closed containers; keep out of water supplies.

WASTE DISPOSAL METHODS: Dispose in accordance with Federal, State, and Local regulations. Do not incinerate closed or empty containers.

SECTION 8- SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: NIOSH or Bureau of Mines approved organic vapor-type respirator is required in absence of proper environmental control.

VENTILATION:

LOCAL EXHAUST: To keep below TLV
MECHANICAL (General): To keep below TLV
SPECIAL: None
OTHER: None

PROTECTIVE GLOVES: Solvent resistant gloves - impervious gloves

EYE PROTECTION: Safety glasses or goggles

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: None reasonably foreseeable.



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SECTION 9- SPECIAL PRECAUTIONS

**PRECAUTIONS TO BE TAKEN
IN HANDLING AND STORAGE:**

Do not store above 110 Deg. °F. Do not use or store near any open flames or ignition sources.

OTHER PRECAUTIONS:

Contents under pressure. Do not puncture or incinerate. Exposure to temperatures above 120 Deg. °F may cause can to burst with violence and cause injury. Vapors are heavier than air and will collect in low areas.

SECTION 10- REGULATORY INFORMATION

SUBJECT TO SECTION 313 OF SARA TITLE III: No

ALL CHEMICAL COMPONENTS ARE LISTED IN THE TSCA INVENTORY.

CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN:

NATIONAL TOXICOLOGY PROGRAM: No

I.A.R.C. MONOGRAPHS: No

OSHA: No

OSHA PERMISSIBLE EXPOSURE LIMIT: See Section 2

ACGIH THRESHOLD LIMIT VALUE: See Section 2

OTHER EXPOSURE LIMITED USED: None

SECTION 11- OTHER INFORMATION

TRANSPORTATION INFORMATION – DOMESTIC GROUND

Shipping Name:	Consumer Commodity
Hazard Class:	ORM-D
UN Number:	N/A
Packing Group:	N/A
Hazard Label:	None
Carton Marking:	Consumer Commodity, ORM-D

SECTION 12-ADDITIONAL 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 MERCHANT ABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED BY GC ELECTRONICS.