

GC Electronics
1801 Morgan Street
Rockford, IL 61102
Phone: (815) 968-9661
Fax: (815) 968-9731
www.gcelectronics.com

Product Name: BIG BATH
MSDS Number: 160
Revision Date: 1/17/03
Supersedes Date: 1/31/01

MATERIAL SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Product Type: **Solvent Cleaner**
Product Name: **GC Big Bath**
Part Number(s): **19-902**
19-903
19-903-6
Z-9517
Z-9703

Emergency Contact: Chemtrec
Phone (24 hours): (800) 424-9300

Section 1 - Identification of Product

COMMON NAME (used on label)(Trade Name & Synonyms): **GC BIG BATH**
CAS. NUMBER: See Section 2
CHEMICAL NAME: 1,1-Dichloro-1-fluoroethane & Methanol
CHEMICAL FAMILY: N/A
FORMULA: N/A

HMIS RATINGS		Minimal Hazard	0
		Slight Hazard	1
Health: 2		Moderate Hazard	2
Flammability: 1		Serious Hazard	3
Reactivity: 0		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			FLASH POINT DEG. F	% BY WEIGHT
				@25 DEG. C.	LEL	UEL		
1,1-Dichloro-1-fluoro- ethane**	1717-00-6	N/A*	N/A*	10 psia	7.4	15.5	None	85 - 90
Methanol**	67-56-1	200 ppm	200ppm	96 mmHg	6.0	36.0	52 (TCC)	5 - 10
Carbon Dioxide	124-38-9	5000ppm		1 atm.	None		None	1 - 5

*Limit established by The AlliedSignal Company is 500ppm
**NOTE: This product contains an ingredient subject to Section 313 of SARA Title III.
N/A is not available or not applicable

Section 3 - Physical Data

BOILING POINT (Deg. F): Concentrate Range: 75 - 150
SPECIFIC GRAVITY (Water = 1): Concentrate: 1.2
VAPOR PRESSURE (mmHg): See Section 2
PERCENT VOLATILE BY WEIGHT (%): 100%
PERCENT VOLATILE ORGANIC COMPOUNDS: 5%
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 & 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: Although aerosols are classified as nonflammable under ASTM D 3065-77 Flame Projection Test, this product should not be used or stored near any open flames or ignition sources. Contents under pressure. Self-pressurized aerosol containers. Keep temperature of containers below 120 deg. F. to prevent bursting. Hazardous decomposition products.

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;

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INGESTION:

Swallowing even small amounts of methanol can cause blindness and death; other effects may be nausea, headache, abdominal pain, vomiting and visual disturbances ranging from blurred vision to light sensitivity. Inhalation of high airborne concentration can also irritate mucous membranes, cause headaches, sleepiness, nausea, confusion, loss of consciousness, digestive and visual disturbances and death. 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.

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: Hydrogen chloride, Hydrofluoric acid, small amounts of Phosgene and Chlorine. See SECTION 5 - HEALTH HAZARDS: Signs and Symptoms of Exposure.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Not Applicable

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Section 7 - Spill or Leak Procedures

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

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.

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: Yes. Dichlorofluoroethane = 90% by weight and Methanol = 5%

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

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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:	Aerosol, Nonflammable
Hazard Class:	2.2
UN Number:	UN1950
Packing Group:	N/A
Hazard Label:	ORM-D
Carton Marking:	ORM-D
Description:	Dilchlorofluoroethane/Methanol/CO ₂ Mixture

Disclaimer

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