

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

Product Name: BIG BATH ISO
 MSDS Number: 161
 Revision Date: 02/01/01
 Supersedes Date: 10/29/98

MATERIAL SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Product Type: **Contact Cleaner**
 Product Name: **GC Big Bath Iso**
 Part Number(s): **19-904**

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 ISO**
 CAS. NUMBER: See Section 2
 CHEMICAL NAME: Hexanes & Alcohol
 CHEMICAL FAMILY: N/A
 FORMULA: N/A

HMIS RATINGS

		Minimal Hazard	0
		Slight Hazard	1
Health: 2		Moderate Hazard	2
Flammability: 4		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		ACGIH		VAPOR PRESSURE @ 25 DEG. C.	LEL	UEL	FLASH POINTDEG. F	% BY WT
		PEL	TLV	TLV	TLV					
Hexane**	110-54-3	500ppm	50ppm	50ppm	50ppm	140 mmHg	1.2	7.5	< 0(TCC)	40 - 60
IsoHexane	107-83-5	NE	500ppm	500ppm	500ppm	5.2 psia	1.0	7.0	20 (TCC)	40 - 60
Ethyl Alcohol	64-17-5	1000ppm	1000ppm	1000ppm	1000ppm	44 mmHg	3.3	19.0	54(TCC)	5 - 10
Carbon Dioxide	124-38-9	5000ppm	5000ppm	5000ppm	5000ppm	1 atm.	None	None	None	<5

**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: 180 - 200

SPECIFIC GRAVITY (Water = 1): Concentrate: .72

VAPOR PRESSURE (mmHg): See Section 2

PERCENT VOLATILE BY WEIGHT (%): 100%

PERCENT VOLATILE ORGANIC COMPOUNDS: 95%

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: Extremely flammable. Contents under pressure. Do not use or store near heat or ignition sources. Containers may burst at temperatures above 130 deg. F.

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:

May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: Headache, dizziness, nausea, staggering gait, confusion, and unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. **INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS OF THE CAN MAY BE HARMFUL OR FATAL;**

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INGESTION:

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

IMPORTANT NOTE: 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.

CHRONIC EFFECTS: THIS PRODUCT CONTAINS N-HEXANE. OVEREXPOSURE TO N-HEXANE MAY CAUSE PROGRESSIVE AND POTENTIALLY IRREVERSIBLE DAMAGE TO THE PERIPHERAL NERVOUS SYSTEM, PARTICULARLY IN THE ARMS AND LEGS.

SIMULTANEOUS EXPOSURE TO THE VAPORS OF N-HEXANE AND METHYL ETHYL KETONE (MEK) OR TO N-HEXANE AND METHYL ISOBUTYL KETONE (MIBK) ABOVE THE RECOMMENDED WORKPLACE LIMITS INCREASES THE RISK OF ADVERSE EFFECTS FROM N-HEXANE. EVIDENCE IN LABORATORY ANIMALS AND HUMANS INDICATES THAT IN THE PRESENCE OF MEK OR MIBK, THE NEUROPATHY ASSOCIATED WITH N-HEXANE IS PRODUCED IN A SHORTER PERIOD OF TIME OR AT LOWER EXPOSURE CONCENTRATIONS. THERE IS NO REPORTED HUMAN EVIDENCE THAT THESE NEUROTOXIC EFFECTS OCCUR WHEN EXPOSURE TO THESE CHEMICALS IS MAINTAINED BELOW ESTABLISHED OSHA AND ACGIH LIMITS.

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): Strong oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Dioxide, Carbon Monoxide.

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 120 Deg. F. Do not use or store near any open flames or ignition sources.

OTHER PRECAUTIONS:

Extremely flammable. Do not use or store near open flames, heat, or any sources of ignition. Contents under pressure. Do not puncture or incinerate. Vapors are heavier than air and will collect in low areas.

Section 10 - Regulatory Information

SUBJECT TO SECTION 313 OF SARA TITLE III: Yes. Hexane = 50%

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