

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

Product Name: GC3-NPB Cleaner and Degreaser
 MSDS Number:285
 Revision Date: 3/26/03
 Supersedes Date:New

MATERIAL SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Product Type:	Cleaner/Degreaser	Emergency Contact:	Chemtrec
Product Name:	GC3-NPB	Phone (24 hours):	(800) 424-9300
Part Number(s):	19-801 12 oz. 19-802 16 oz.		

Section 1 - Identification of Product

HMIS Ratings	Least	0
Health = 2	Slight	1
Flammability = 0	Moderate	2
Reactivity = 0	High	3
	Extreme	4

Chemical Family: Solvent Cleaner

Section 2 - Hazardous Ingredients

CHEMICAL AND COMMON NAME(S)	CAS. #	OSHA		ACGIH		VAPOR PRESSURE @ 25 DEG. C.	FLASH		% By Wt.	
		PEL	TLV	TLV	TLV	LEL	UEL	POINT DEG. F		
N-Propyl Bromide	106-94-5	N/E**	N/E**	N/E**	N/E**	111mmHg	4.0	7.8	None	70 - 80
1,1,1,2-Tetrafluoro-ethane	811-97-2	N/A*	N/A*	N/A*	N/A*	96 psia	Nonflammable	None		20 - 30
Proprietary Mixture of Stabilizers	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	<5

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

**Limit established by manufacturer is 100 ppm

NOTE: This product does not contain any ingredients subject to Section 313 of SARA Title III.

N/A is not available or not applicable N/E is not established

Section 3 - Physical Data

BOILING POINT (Deg. F): Concentrate Range: 75
SPECIFIC GRAVITY(Water = 1): Concentrate: 1.2
 Propellant: -109.2
VAPOR PRESSURE (mmHg): See Section 2
PERCENT VOLATILE BY WEIGHT (%): 100%
VAPOR DENSITY (Air = 1): >1
EVAPORATION RATE (BA = 1): >1
SOLUBILITY IN WATER: Negligible

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REACTIVITY IN WATER: None
APPEARANCE AND ODOR: CONCENTRATE: Clear liquid, irritating odor at high concentrations.
PROPELLANT: Colorless, odorless gas.
VOC: 70%

Section 4 - Fire & Explosion Hazard Data

FINISHED PACKAGE: Pressurized containers.
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° 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. Repeated inhalation of high concentrations may cause lung, kidney, liver, urinary, blood, bone marrow, central nervous system, and reproductive effects. 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: Not expected to be a hazard in normal industrial use. Aspiration may cause rapid absorption through the lungs, which may result in systemic effects.

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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 affected, get medical assistance.
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.

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 Oxidizers, Strong Bases.
HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen Bromide, Carbon Dioxide, and Carbon Monoxide. 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

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.

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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° F. Avoid breathing vapors.
Avoid prolonged or repeated contact with skin.

OTHER PRECAUTIONS: Contents under pressure. Do not puncture or incinerate. Vapors are heavier than air and will collect in low areas.

Section 10 - Regulatory 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

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 LIMIT USED: None

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Disclaimer

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