

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

Product Name: GC FLUX REMOVER & CLEANER
 MSDS Number: 176
 Revision Date: 03/27/03
 Supersedes Date: 02/24/01

MATERIAL SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Product Type:	Flux Remover	Emergency Contact:	Chemtrec
Product Name:	GC FLUX REMOVER & CLEANER	Phone (24 hours):	(800) 424-9300
Part Number(s):	22-271		

Section 1 - Identification of Product

COMMON NAME (used on label)(Trade Name & Synonyms): **GC FLUX REMOVER & CLEANER**
 CAS. NUMBER: See Section 2
 CHEMICAL NAME: Trichloroethylene & Isopropanol
 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		ACGIH		VAPOR PRESSURE @ 25 DEG. C.	LEL	UEL	FLASH POINTDEG. F	% BY WT.
		PEL	TLV	TLV	TLV					
Isopropyl Alcohol**	67-63-0	400ppm	400ppm	400ppm	400ppm	31 mmHg	2.2	12.0	53(TCC)	15 - 20
Trichloroethylene**	79-01-6	50 ppm	50ppm	50ppm	50ppm	60 mmHg	8.0	44.8	None	80 - 85
Carbon Dioxide	124-38-9	5000ppm				1 atm.		None	None	5

**NOTE: This product contains an ingredient subject to Section 313 of SARA Title III.

WARNING: This product contains Trichloroethylene which is known to the state of California to cause cancer.

N/A is not available or not applicable

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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. Do not administer sympathomimetic drugs unless absolutely necessary. No specific antidote

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.

NOTE TO PHYSICIAN: BECAUSE RAPID ABSORPTION MAY OCCUR THROUGH LUNGS IF ASPIRATED AND CAUSE SYSTEMIC EFFECTS, THE DECISION OF WHETHER TO INDUCE VOMITING OR NOT SHOULD BE MADE BY AN ATTENDING PHYSICIAN. IF LAVAGE IS PERFORMED, SUGGEST ENDOTRACHEAL AND/OR ESOPHAGEAL CONTROL. DANGER FROM LUNG ASPIRATION MUST BE WEIGHED AGAINST TOXICITY WHEN CONSIDERING EMPTYING THE STOMACH. EXPOSURE MAY INCREASE "MYOCARDIAL IRRITABILITY". DO NOT ADMINISTER SYMPATHOMIMETIC DRUGS UNLESS ABSOLUTELY NECESSARY. NO SPECIFIC ANTIDOTE. SUPPORTIVE CASE. TREATMENT BASED ON JUDGMENT OF THE PHYSICIAN IN RESPONSE TO REACTIONS OF THE PATIENT.

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. Gross contamination with water may cause hydrolysis which will produce small amounts of hydrochloric acid.

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**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, small amounts of Phosgene and Chlorine.

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.

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. Avoid repeated contact with skin.

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.

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Section 10 - Regulatory Information

SUBJECT TO SECTION 313 OF SARA TITLE III: Yes. Trichloroethylene = 80%, Isopropyl Alcohol = 16%

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: Yes - Trichloroethylene

OSHA: No.

WARNING: This product contains Trichloroethylene which is known to the state of California to cause cancer.

CANCER INFORMATION: A positive carcinogenic response has occurred only in mice given large doses of trichloroethylene. Data suggest a nonmutagenic mechanism for tumor formation implying that nontoxic doses of trichloroethylene should pose little or no carcinogenic hazard for man. Trichloroethylene is listed as a potential carcinogen by IARC.

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

Disclaimer

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