CHEMTRONICS® **MSDS #1629**

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company Address:
8125 Cobb Center Drive
Kennesaw, GA 30152

Product Information: 800-TECH-401 Emergency: (Chemtrec) 800-424-9300
Customer Service: 800-645-5244 Revision Date: December 15, 2004

Product Identification

New & Improved Kontact Restorer®

Product Code: ES1629

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Wt. % Range
n-propyl bromide	106-94-5	80.0-90.0
Isopropanol	67-63-0	1.0-5.0
1,2 Epoxybutane	106-88-7	0.1-1.0
t-Butanol	75-65-0	0.1-1.0
1,1,1,2-Tetrafluoroethane	811-97-2	5.0-10.0
Carbon Dioxide	124-38-9	1.0-5.0
Mineral Oil	8042-47-5	1.0-5.0

SECTION 3: HAZARD IDENTIFICATION

Emergency Overview: Clear, colorless liquid with faint ethereal odor. This product is nonflammable. Liquid may irritate eyes and skin under repeated or prolonged exposure. Breathing high concentrations of product vapor may produce dizziness and nausea.

Potential Health Effects:

Eyes: Liquid, aerosols and vapors of this product may be irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation.

Skin: Prolonged contact can cause skin irritation, including redness, burning, drying and/or cracking of skin..

Ingestion: May be harmful if swallowed. Swallowing this material may result in nausea, vomiting and weakness followed by central nervous system depression.

Inhalation: Can be harmful if inhaled. High concentrations of vapors in immediate area can cause dizziness, nausea, vomiting, unconsciousness and death.

SECTION 4: FIRST AID MEASURES

Eyes: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and tested by medical personnel if irritation develops or persists.

Skin: Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persist. Wash clothing before reuse.

Ingestion: If swallowed, do not induce vomiting. If conscious, give 2 glasses of water. Never give anything by mouth to an unconscious person. Keep head below knees to minimize chance of aspirating material into the lungs. Get medical attention immediately.

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen. Get medical attention.

SECTION 5: FIRE FIGHTING MEASURES

Flash Point: None to boiling (TCC) Flammable/Explosion limits: LEL 4.0 / UEL 8.0 (% volume in air)

Extinguishing Media: Use water spray or fog, CO_2, dry chemical or water stream when fighting fires involving this material.

Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus (pressure-demand, MSHA/NIOSH approved or equivalent) and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Spills: Shut off leak if possible and safe to do so. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container for proper disposal. Do not flush to sewer. Avoid runoff into storm sewers and ditches which lead to waterways.

SECTION 7: HANDLING AND STORAGE

Avoid prolonged or repeated contact with eyes, skin, and clothing. Wash hands before eating. Use with adequate ventilation. Avoid breathing product vapor or mist. Do not reuse this container. Store in a cool dry place away from heat, sparks and flame. Keep container closed when not in use. Do not store in direct sunlight.

KEEP OUT OF REACH OF CHILDREN.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

CHEMICAL NAME	ACGIH TLV	OSHA PEL	OTHER
n-propyl bromide	NE	NE	25 ppm (recommended)
Isopropanol	200 ppm	400 ppm	400 ppm STEL
1,2 Epoxybutane	400 ppm	NE	
t-Butanol	100 ppm	100 ppm	150 ppm STEL
1,1,1,2-Tetrafluoroethane	NE	NE	1000 ppm (Dupont)

NE = Not Established

Work/Hygienic Practices: Good general ventilation should be sufficient to control airborne levels. If vapor concentration exceeds TLV, use NIOSH approved organic vapor cartridge respirator. Wear safety glasses with side shields (or goggles) and rubber or other chemically resistant gloves.

NFPA and HMIS Codes:	NFPA	HMIS
Health	2	2
Flammability	1	1
Reactivity	1	1
Personal Protection	-	B

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Clear, colorless liquid
Odor: Characteristic Odor
pH: NA
Vapor Pressure: 112 mmHg@ 70F
Boiling Point: 156°F
Solubility in Water: Negligible
Specific Gravity: 1.35
(Water =1)
Evaporation Rate: >1 (Butyl acetate=1)
Percent Volatile: >95%

SECTION 10: STABILITY AND REACTIVITY

Stability - This product is stable under normal conditions.
Conditions to Avoid: Steam, oxidizers, elevated temperatures. Do not spray near open flames, red hot surfaces or other sources of ignition.
Incompatibility: Do not mix with strong oxidizers and strong bases.
Products of Decomposition: Thermal decomposition may release hydrogen bromide, carbon monoxide and carbon dioxide.
Hazardous Polymerization: Will not occur
Conditions to Avoid: Keep away from ignition source.

SECTION 11: TOXICOLOGICAL INFORMATION

Inhalation:

n-propyl bromide	LC50 rats 253 000 mg/m3/0.5hr*	Reproductive effects: n-propyl bromide	NOEL rats 100 ppm
Tetrafluoroethane	Rats ALC 567,000ppm/4hrs	(Rozman and Doull, 2002)	LOEL rats 250 ppm
Carbon Dioxide	LCLo/Human 9pph/5min		

Ingestion:

n-propyl bromide LD50/rats 4260 mg/kg*

*Information provided by manufacturer.
Cancer Information: No ingredients in this product are listed as human carcinogens by IARC or NTP.
Reproductive effects: n-propyl bromide Teratogenic effects: none Mutagenic effects: none

SECTION 12: ECOLOGICAL INFORMATION

Avoid runoff into storm sewers and ditches which lead to waterways. Water runoff can cause environmental damage.

REPORTING

US regulations require reporting spills of this material that could reach any surface waters.
The toll free number for the US Coast Guard National Response Center is: **1-800-424-8802**

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with all federal, state and local regulations. Water runoff can cause environmental damage.

SECTION 14: TRANSPORTATION INFORMATION

	Proper Shipping Name	UN Number	Class	Sub. Risk	Pkg. Group	Hazard Label	Pkg. Instr.	Max. Quantity
Air:	Aerosols non-flammable	UN 1950	2.2	NA	NA.	Non-flammable	203	75 k.g; 150k.g.
Ground:	Consumer Commodity ORM-D	NA	ORM-D	NA	NA	ORM-D	Pkg. Auth.	173.306

SECTION 15: REGULATORY INFORMATION

SECTION 313 SUPPLIER NOTIFICATION

This product contains the following chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372).

Chemical Name	**CAS No.**	**Wt. % Range**
1,2 Epoxybutane	106-88-7	0.1-1.0

This information should be included on all MSDSs copied and distributed for this material.

TOXIC SUBSTANCES CONTROL ACT (TSCA).

All ingredients of this product are listed on the TSCA Inventory.

CALIFORNIA PROPOSITION 65: This product contains n-propyl bromide, a chemical known to the state of California to cause birth defects or other reproductive harm.

WHMIS: Class A; Class D2A

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

SECTION 16: OTHER INFORMATION

This product is a Level 1 aerosol. Do not puncture or incinerate containers. Normal ventilation for standard manufacturing practices is usually adequate. Local exhaust should be used when large amounts are released.

To the best of our knowledge, the information contained herein is accurate. However, all materials may present unknown hazards and should be used with caution. In particular, improper use of our products and their inappropriate combination with other products and substances may produce harmful results which cannot be anticipated. Final determination of the suitability of any material is the sole responsibility of the user. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that may exist.