PRODUCT NAME: Gun Cleaner
PRODUCT CODE: GC1 DATE: 07/06/99

THIS MSDS COMPLIES WITH 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD)

IMPORTANT: Read this MSDS before handling and disposing of this product.

Pass this information on to employees, customers, & users of this product.

SECTION 1. CHEMICAL PRODUCTS & COMPANY IDENTIFICATION / HAZARD RATINGS

PRODUCT IDENTITY:	Blend #9926 GC1 Gun Cleaner	HEALTH RATINGS:	
COMPANY IDENTITY:	Kline's Auto, Inc.	HEALTH (NFPA) =	2
COMPANY ADDRESS:	630 N. 13th Street	HEALTH (HMIS) =	3
	Allentown, PA 18102	FLAMMABILITY =	3
COMPANY PHONE:	1-610-434-7430	REACTIVITY =	0
FAX NUMBER:	1-610-433-5417		
CHEMTREC PHONE:	1-800-424-9300		

SECTION 2. INGREDIENT & REGULATORY INFORMATION

All components of this product are on the TSCA list.

SARA Title III Section 313 Supplier Notification

This product contains the indicated <*> toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning & Community Right-To-Know Act of 1986 & of 40 CFR 372. This information must be included in all MSDSs that are copied and distributed for this material.

SARA TITLE III INGREDIENTS	CAS#	WT. %	(REG.SECTION)	RQ (LBS)
Acetone	67-64-1	Not Appl.	(311, 312)	5000
Isopropanol	67-63-0	Not Appl.	(311, 312)	None
n-Butyl Acetate	123-86-4	Not Appl.	(311, 312)	5000
*Toluene	108-88-3	21	(311, 312, 313, RCRA)	1000
*2-Butoxyethanol	111-76-2	5	(313)	None

SARA SECTION 311/312 HAZARDS: Acute Health, Chronic Health, Fire

MATERIAL	CAS#	TWA (OSHA)	TLV (ACGIH)	HAP
Acetone	67-64-1	1000 ppm	500 ppm	No
Isopropanol	67-63-0	400 ppm	200 ppm	No
n-Butyl Acetate	123-86-4	150 ppm	150 ppm	No
Toluene	108-88-3	200 ppm	50 ppm	Yes
2-Butoxyethanol	111-76-2	50 ppm (s)	20 ppm (s)	Yes

In addition to EPA Hazardous Air pollutants showing 'Yes' under "HAP" above, using manufacturers' data, based on EPA Method 311, the following EPA Hazardous Air Pollutants may be present in trace amounts (less than 0.1%) = Benzene, Mixed Xylenes, Ethylbenzene

MATERIAL	CAS#	CEILING	STEL (OSHA/ACGIH)
Acetone	67-64-1	None Known	750 ppm
Isopropanol	67-63-0	None Known	500 ppm
n-Butyl Acetate	123-86-4	None Known	200 ppm

THIS PRODUCT MEETS REQUIREMENTS OF SOUTHERN
CALIFORNIA AQMD RULE 443.1 & SIMILAR REGULATIONS

CALIFORNIA PROPOSITION 65: This product contains the following chemicals known to the state of California to cause cancer & reproductive toxicity: a trace of Benzene, Toluene

IF > 4761 POUNDS OF THIS PRODUCT IS IN ONE CONTAINER THE "RQ" IS EXCEEDED.

DOT SHIPPING NAME: Paint Related Material, 3, UN1263, PG II

DRUM LABEL: (FLAMMABLE LIQUID)

SECTION 3. HAZARDS IDENTIFICATION

MATERIAL	CAS#	LOWEST KNOW LETHAL DOSE DATA
		LOWEST KNOWN LD50 (ORAL)
Ethylene Glycol Butyl Ether	111-76-2	320.0 mg/kg (Rabbits)
		LOWEST KNOWN LC50 (VAPORS)
Ethylene Glycol Butyl Ether	111-76-2	700 ppm (Mice)
		LOWEST KNOWN LD50 (SKIN)
Ethylene Glycol Butyl Ether	111-76-2	440.0 mg/kg (Rabbits)

THRESHOLD LIMIT VALUE: 115 ppm (Evaporated Blend)

CONTAINS: ACETONE, ISOPROPANOL, N-BUTYL ACETATE, TOLUENE, 2-BUTOXYETHANOL

DANGER!!

EXTREMELY FLAMMABLE!! VAPORS CAN CAUSE FLASH FIRE

ACUTE HAZARDS

EYE & SKIN CONTACT:

Primary irritation to skin, defatting, dermatitis.

Absorption thru skin increases exposure.

Primary irritation to eyes, redness, tearing, blurred vision.

Liquid can cause eye irritation. Wash thoroughly after handling.

INHALATION:

Anesthetic. Irritates respiratory tract. Acute overexposure can cause serious nervous system depression. Vapor harmful.

Breathing vapor can cause irritation.

Acute overexposure can cause damage to kidneys, blood, nerves, liver & lungs.

SWALLOWING:

Harmful or fatal if swallowed.

Swallowing can cause abdominal irritation, nausea, vomiting & diarrhea.

SUBCHRONIC HAZARDS / CONDITIONS AGGRAVATED

CONDITIONS AGGRAVATED

Chronic overexposure can cause damage to kidneys, blood, nerves, liver, & lungs.

Persons with severe skin, liver or kidney problems should avoid use.

CHRONIC HAZARDS

CANCER, REPRODUCTIVE & OTHER CHRONIC HAZARDS:

Liver tumors have been reported in laboratory mice.

Due to metabolic differences, the results are not relevant in humans.

This product may contain less than 63 ppm of Benzene.

Not considered hazardous in such low concentrations.

Absorption through skin may be harmful. Studies with laboratory animals indicate this product can cause damage to fetus.

SECTION 4. FIRST AID MEASURES PROCEDURES

EYE CONTACT:

For eyes, flush with plenty of water for 15 minutes & get medical attention.

SKIN CONTACT:

In case of contact with skin immediately remove contaminated clothing.

Wash thoroughly with soap & water. Wash contaminated clothing before reuse.

(Discard contaminated shoes)

INHALATION:

After high vapor exposure, remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped give artificial respiration. CALL A PHYSICIAN IMMEDIATELY!

SWALLOWING:

If swallowed, CALL A PHYSICIAN IMMEDIATELY! Do NOT induce vomiting.

Have patient lie down & keep warm. Vomiting may lead to pneumonitis, which may be fatal.

SECTION 5. FIRE FIGHTING MEASURES

AUTO IGNITION TEMPERATURE: 371 C / 700 F (Lowest Component)

LOWER FLAMMABLE LIMIT IN AIR (% by vol): 1.9

FLASH POINT (TEST METHOD): -16 C / 2 F (TCC) (Lowest Component)

FLAMMABILITY CLASSIFICATION: Class I B

EXTINGUISHING MEDIA

NFPA Class B extinguishers (Carbon Dioxide or foam) for Class I B liquid fires.

SPECIAL FIRE FIGHTING PROCEDURES

Water spray may be ineffective on fire but can protect fire fighters & cool closed containers. Use fog nozzles if water is used.

Do not enter confined fire-space without full bunker gear. (Helmet with face shield, bunker coats, gloves & rubber boots).

Use NIOSH approved positive-pressure self-contained breathing apparatus.

UNUSUAL EXPLOSION AND FIRE PROCEDURES

EXTREMELY FLAMMABLE!! VAPORS CAN CAUSE FLASH FIRE

Keep container tightly closed.

Isolate from oxidizers, heat, sparks, electric equipment & open flame.

Closed containers may explode if exposed to extreme heat.

Applying to hot surfaces requires special precautions.

Empty container very hazardous! Continue all label precautions

SECTION 6. ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES

Stop spill at source. Dike area & contain. Clean up remainder with absorbent materials. Mop up & dispose of. Persons without proper protection should be kept from area until cleaned up.

WASTE DISPOSAL METHOD

Recycle or dispose of observing local, state & Federal health, safety & pollution laws. If questions exist, contact the appropriate agencies.

OTHER PRECAUTIONS

Vapors may ignite explosively & spread long distances. Prevent vapor buildup. Put out pilot lights & turn off heaters, electric equipment & other ignition sources during use & until all vapors are gone.

SECTION 7. HANDLING AND STORAGE

HANDLING

Isolate from oxidizers, heat, sparks, electric equipment & open flame.

Use only with adequate ventilation. Avoid breathing of vapor or spray mist.

Do not get in eyes, on skin or clothing.

Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier.

Wear gloves, apron & footwear impervious to this material. Wash clothing before reuse.

Avoid free fall of liquid. Ground containers when transferring. Do not flame cut, saw, drill, braze, or weld. Empty container very hazardous! Continue all label precautions!

STORAGE

Vapors may ignite explosively & spread long distances. Prevent vapor buildup.

Put out pilot lights & turn off heaters, electric equipment & other ignition sources during use & until all vapors are gone.

Do not store above 49 C / 120 F. Store large amounts in structures made for OSHA Class I B liquids.

Keep container tightly closed & upright when not in use to prevent leakage.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE CONTROLS

Ventilate to keep vapors of this material below 60 ppm. If over TLV, in accordance with 29 CFR 1910.134, use NIOSH approved positive-pressure self-contained breathing apparatus. Consult Safety Equipment Supplier. Use explosion-proof equipment.

VENTILATION

LOCAL EXHAUST	= Necessary
MECHANICAL (GENERAL)	= Acceptable
SPECIAL	= None
OTHER	= None

PERSONAL PROTECTIONS:

Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier.

Wear gloves, apron & footwear impervious to this material. Wash clothing before reuse.

SECTION 9. PHYSICAL DATA

APPEARANCE:	Liquid, Water-White
ODOR:	Ketone
BOILING RANGE:	56 88 172 C / 133 192 342 F
GRAVITY @ 60 F:	
API:	39.3
SPECIFIC GRAVITY (Water = 1):	.828
POUNDS / GALLON:	6.901
VOC'S (>0.44 LBS / SQ IN):	94.7 Vol. % / 784.3 g/L / 6.533 Lbs/Gal
TOTAL VOC'S (TVOC):	100.0 Vol. % / 828.5 g/L / 6.900 Lbs/Gal
NONEXEMPT VOC'S (CVOC):	70.0 Vol. % / 590.9 g/L / 4.921 Lbs/Gal
HAZARDOUS AIR POLLUTANTS (HAPS):	26.4 Wt. % / 219.1 g/L / 1.825 Lbs/Gal
VAPOR PRESSURE (mm of Hg) @ 20 C:	83.3
NONEXEMPT VOC PARTIAL PRESSURE (mm of Hg @ 20 C):	15.0
VAPOR DENSITY (air = 1):	2.6
WATER ABSORPTION:	Appreciable
SOLVENCY PARAMETERS:	
HKB (Hydrogen Bonding):	29.7
PKB (Polarity):	38.9
DKB (Dispersion):	31.4
REFRACTIVE INDEX:	1.401

SECTION 10. REACTIVITY DATA

STABILITY

Stable

CONDITIONS TO AVOID

Isolate from oxidizers, heat, sparks, electric equipment, & open flame.

MATERIALS TO AVOID

Isolate from strong oxidizers such as permanganates, chromates, & peroxides.

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon Monoxide, Carbon Dioxide from burning.

HAZARDOUS POLYMERIZATION

Will not occur.