



MERCOFRAMES OPTICAL CORP

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MATERIAL SAFETY DATA SHEET

PRODUCT IDENTITY: **ALL OFF MARKING INK REMOVER**

NEW MSDS DATE: 11/1/2004

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

PRODUCT IDENTITY: ALL OFF MARKING INK REMOVER

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

CONTAINS:

10%-20% ETHANOL (64-17-5) [200-578-6],

75%-90% TRADE SECRET MIXTURE

Number in parentheses is CAS #, number in brackets is European EC #.

SECTION 3. HAZARDS IDENTIFICATION

RISK STATEMENTS:

R11 Flammable.

SAFETY STATEMENTS:

S16 Keep away from sources of ignition. No smoking.

SECTION 4. FIRST AID MEASURES

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

SKIN CONTACT: Wash thoroughly with soap & water.

INHALATION: Remove to fresh air. If breathing is difficult, give oxygen.
SWALLOWING: If swallowed, call a physician IMMEDIATELY! Induce vomiting promptly using physician's instructions or by having patient stick finger down throat.

SECTION 5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

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

FIRE PROCEDURES:

Keep container tightly closed. Isolate from oxidizers, heat, sparks, electric equipment & open flame. Closed containers may explode if exposed to extreme heat.

SECTION 6. ACCIDENTAL RELEASE MEASURES

CLEAN-UP PROCEDURES:

Clean up with absorbent materials. Mop up & dispose of.

SECTION 7. HANDLING AND STORAGE

HANDLING: Avoid breathing of vapor or spray mist. Avoid contact with eyes.

STORAGE: Do not store above 49 C/120 F.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

WORK & HYGIENIC PRACTICES: Wash at end of each work shift & before eating, smoking or using the toilet.

SECTION 9. PHYSICAL DATA

APPEARANCE: Liquid, Water-White

ODOR: Moderate

BOILING RANGE: 71 78 117 C / 161 174 243 F

AUTO IGNITION TEMPERATURE: 343 C / 650 F (Lowest Component)

LOWER FLAMMABLE LIMIT IN AIR (% by vol): 1.4 (Lowest Component)

FLASH POINT (TEST METHOD): -1 C / 59 F (TCC) (Lowest Component)

FLAMMABILITY CLASSIFICATION: Class I B

GRAVITY @ 60 F :

API: 34.2

SPECIFIC GRAVITY (Water=1): .854

POUNDS/GALLON: 7.114

VOC'S (>0.44 Lbs/Sq In): 97.8 Vol. % / 835.0 g/L / 6.955 Lbs/Gal

TOTAL VOC'S (TVOC): 98.0 Vol. % / 834.0 g/L / 6.947 Lbs/Gal

NONEXEMPT VOC'S (CVOC): 98.0 Vol. % / 834.0 g/L / 6.947 Lbs/Gal

HAZARDOUS AIR POLLUTANTS (HAPS): 7.6 Wt. % / 64.6 g/L / .538 Lbs/Gal

VAPOR PRESSURE (mm of Hg)@20 C: 54.1

NONEXEMPT VOC PARTIAL PRESSURE (mm of Hg @ 20 C): 52.6

VAPOR DENSITY (air=1): 2.3

WATER ABSORPTION: Appreciable

REFRACTIVE INDEX: 1.370

SECTION 10. STABILITY & REACTIVITY

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.

SECTION 11. TOXICOLOGICAL INFORMATION

MATERIAL	CAS #	TWA (OSHA)	TLV (ACGIH)	HAP
ETHANOL	(64-17-5)	400 ppm	400 ppm	No

Each component showing `Yes' under "HAP" is an EPA Hazardous Air Pollutant.

SECTION 11. TOXICOLOGICAL INFORMATION (CONTINUED)

MATERIAL	CAS #	CEILING	STEL (OSHA/ACGIH)
ETHANOL	(64-17-5)	None Known	400 ppm

ACUTE HAZARDS:

EYE & SKIN CONTACT:

Primary irritation to eyes, redness, tearing, blurred vision. Liquid can cause eye irritation.

INHALATION:

Anesthetic.

SWALLOWING:

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

SUBCHRONIC HAZARDS/CONDITIONS AGGREGATED

This product has no carcinogens listed by IARC, NTP, NIOSH, OSHA or ACGIH, as of this date, greater or equal to 0.1%.

SECTION 12. ECOLOGICAL INFORMATION

AQUATIC ANIMAL INFORMATION:

The most sensitive known aquatic group to any component of this product is:

Chub 1000 ppm or mg/L (24 hour exposure).

Keep out of natural water supplies.

MOBILITY

This material is a mobile liquid.

DEGRADABILITY

This product is completely biodegradable.

ACCUMULATION

This product does not accumulate or biomagnify in the environment.

SECTION 13. DISPOSAL CONSIDERATIONS

Recycle / dispose of observing national, regional, state, provincial and local health, safety & pollution laws. If questions exist, contact the appropriate agencies.

SECTION 14. TRANSPORT INFORMATION

DOT SHIPPING NAME: Flammable Liquids, n.o.s. (Ethanol),3,UN1993,PG-II
DRUM LABEL: (FLAMMABLE LIQUID)
IATA / ICAO: Flammable Liquids, n.o.s. (Ethanol),3,UN1993,PG-II
IMO / IMDG: Flammable Liquids,n.o.s. (Ethanol),3,UN1993,PG-II
EMERGENCY RESPONSE GUIDEBOOK NUMBER: 128

SECTION 15. REGULATORY INFORMATION

EPA REGULATION:
SARA SECTION 311/312 HAZARDS: Fire

SARA TITLE III INGREDIENTS	CAS#	WT. % (REG. SECTION)	RQ(LBS)
ETHANOL	(64-17-5)	16 (311,312)	None

SECTION 15. REGULATORY INFORMATION (CONTINUED)

STATE REGULATIONS:

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

The components of this product are listed on the chemical inventories of the following countries:
Australia, Canada, Europe (EINECS), Japan, Korea, United Kingdom.

SECTION 16. OTHER INFORMATION

HAZARD RATINGS:
HEALTH (NFPA): 1
HEALTH (HMIS): 2
FLAMMABILITY: 3
REACTIVITY: 0

This information is intended solely for the use of individuals trained in the NFPA & HMIS hazard rating systems.

EMPLOYEE TRAINING

Employees should be made aware of all hazards of this material (as stated in this MSDS) before handling it.

NOTICE

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