

MATERIAL SAFETY DATA SHEET

KYZEN MIS-PRINT ADHESIVE REMOVER™



COMPANY NAME AND ADDRESS:

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PHONE: (615) 831-0888

NFPA Rating: H=3, F=1, R=0

(24 HOUR) EMERGENCY PHONE: CHEMTREC (800) 424-9300

EFFECTIVE: February 8, 1996

SUPERSEDES: July 20, 1995

INGREDIENTS:

Regulatory Information:

All ingredients used in KYZEN MIS-PRINT ADHESIVE REMOVER are TSCA listed.
None of the ingredients are regulated under Section 313 of Title III of SARA of 1986, and 40 CFR 372.45.
None of the ingredients are regulated as a TTO (Total Toxic Organic under 40 CFR 413.02).
None of the ingredients are regulated as a hazardous substance per 40 CFR 302 or 40 CFR 372.65.

Material or Component	OSHA PEL	ACGIH TLV	Approx %
Proprietary Cyclic Hydrocarbon	None Established	None Established	97 - 99.9 %
Proprietary Surfactants	None Established	None Established	0.1 - 2 %

PHYSICAL DATA:

NOTE: The physical property data listed below are based on a limited sample size of production lots. As the number of production lots and our sample size increase, the specific physical property ranges listed below may be adjusted.

Boiling Point	195 - 204°C	Specific Gravity 60°F	1.120 - 1.140
Vapor Pressure Formulation	0.16 mm Hg at STP	Vapor Pressure Organic Components	0.16 mm Hg
Vapor Density (Calculated)	3.0 (Air = 1)	Melting Point	Approx. -44°C
Evaporation Rate (Butyl Acetate=1)	0.03	Solubility in Water	Complete
Appearance	Clear to light amber	Odor	Mild

FIRE AND EXPLOSION HAZARD DATA:

Flash Point (Pensky-Martens CC)	200°F	Flammable Limits in Air	UL=6.9% v/v ; LL=1.4% v/v
Extinguisher Media	Water spray, alcohol foam, dry chemical, and/or carbon dioxide.		
Special Fire Fighting Procedures	Fire fighter should have eye protection and wear positive pressure, full face, self-contained breathing apparatus.		
Unusual Fire and Explosion Hazards	Low fire hazard when exposed to heat and flames.		

PHYSICAL HAZARDS / REACTIVITY DATA:

Stability	Stable	Conditions to Avoid	Heat and flames
Incompatibility	Oxidizing agents	Hazardous Polymerization	Will not occur
Hazardous Decomposition	Combustion produces unidentified organics, oxides of carbon, carbon dioxide, carbon monoxide, ammonia and nitrogen oxides.		
Other	Do not add nitrites due to possible formation of Nitrosoamines (Potential Carcinogen).		

HEALTH HAZARD DATA:

Route of Entry: Inhalation: Yes Skin: Yes Ingestion: Yes

Health Hazards (Acute and Chronic):

Proprietary Cyclic Hydrocarbon:

Oral	Rat (LD ₅₀): 1580 mg/kg
Dermal Toxicity	Guinea Pig (LD ₅₀): >5000 mg/kg
Sensitizer	No data found.
Skin	Rabbit: Non-irritating
Inhalation	Rat: Short term exposure at room temperature saturation: No effects.
Eye Irritation	Rabbit: Severe irritant

Sub Chronic Oral Toxicity: Subacute - 90 day feeding study
Rats: At highest level (0.8% of diet): No effects.

Aquatic Toxicity:

Minnow (LC₅₀): (48 hour): 100-500 mg/l
Aquatic Toxicity Rating: 96 hour TLM > 1000 mg/l

Tumorigenicity:

IARC 11,231 (1976): No carcinogenic effects noted in mice (oral, subcutaneous and skin) or rats (oral and subcutaneous)

Mutagenicity:

No data found.

Reproductive Toxicity:

Rat teratology: graded doses 10-1000 mg/kg/day (days 6-15 of gestation); maternal and developmental NOAEL: 1000 mg/kg/day.

Proprietary Surfactants:

Oral Rat (LD₅₀): > 5000 mg/kg

No other data available.

Chemical ingredients listed as a carcinogen or potential carcinogen:

National Toxicology Program: No

IARC Monographs: No

OSHA Regulated: No

Signs and Symptoms of Exposure:

Inhalation	No effects of exposure expected; although, if exposed to high concentrations or for long periods of time, it may cause pallor, nausea, anesthetic, or narcotic effects.
Skin	No effects of exposure expected. May have slight analgesic effect. If significant amount absorbed dermally, may cause anesthetic or narcotic effects.
Eye	Causes painful stinging or burning of eyes and lids, watering of eyes, conjunctivitis, opaqueness of cornea, possibly leading to loss of sight.
Ingestion	If significant quantity ingested, may dull senses.

Emergency and First Aid Procedures for Overexposure:

Inhalation	Move to fresh air. If necessary restore and support breathing. Get medical attention.
Eyes	Immediately flush with water for 15 minutes while lifting eyelids and rolling eyes. Get immediate medical attention.
Skin	Wash promptly with soap and water. Remove contaminated clothing and launder before reuse. May dry out skin. Seek a physician if symptoms persist.
Ingestion	Get immediate medical attention. If conscious and medical help is not readily available, give two glasses of water and induce vomiting. Never attempt to give anything by mouth to an unconscious person.

SPECIAL PRECAUTIONS FOR SAFE HANDLING AND USE:

Handling and Storage	Store in cool, ventilated area away from ignition sources. Keep containers tightly closed.
Other Precautions	Avoid acids and oxidizers. No smoking or eating in handling areas.
Material Release or Spill	Pick up spill on absorbent, non-combustible material and place in covered container for disposal. Flush or wipe area with water to remove last traces.
Disposal of Material	Consult your local federal, state, county or city regulations on proper methods of disposal.

SPECIAL PROTECTION AND CONTROL MEASURES:

Respiratory Protection	None under normal use conditions. When exposed to a mist, use a NIOSH approved respirator.
Ventilation	Provide general or local exhaust ventilation for areas of use.
Protective Gloves	Use chemical resistant gloves such as butyl rubber.
Eye Protection	Chemical goggles, safety glasses or face shield should be worn when working with this material. Contact lenses should not be worn when working with this material.
Other Protective Equipment	Eye fountain and/or safety shower should be readily accessible. Long sleeves, aprons or other personal clothing protection should be worn to avoid unnecessary contact with this material
Work Hygiene Practices	Avoid contact with this material. Do not eat, drink or smoke when working with this material.

Note: Personal protection information given is based upon the general information as to normal uses and conditions. Where special or unusual uses or conditions exist, it is suggested that the expert assistance of an industrial hygienist or other qualified professional be sought.

THE DATA CONTAINED HEREIN IS BASED ON INFORMATION CURRENTLY AVAILABLE TO KYZEN CORPORATION AND IS BELIEVED TO BE FACTUAL AND THE OPINIONS EXPRESSED TO BE THOSE OF QUALIFIED EXPERTS; HOWEVER, THIS DATA IS NOT TO BE TAKEN AS A WARRANTY OR REPRESENTATION OF WHICH KYZEN CORPORATION ASSUMES LEGAL RESPONSIBILITY.