

Material Safety Data Sheet
(According to ANSI Z400.1-2004)

Product: 23222
Date: 3/1/2005

KIWO INK REMOVER
Revision date: 4/1/2010

1. IDENTIFICATION OF PRODUCT AND COMPANY

Product Code: 23222
Product Name: **KIWO INK REMOVER**
Company: KIWO, Inc.
1929 Marvin Circle
Seabrook, TX 77586 USA
Phone: 281-474-9777
Fax: 281-474-7325
Emergency Contact: 1-800-255-3924 (Chemtel)
MSDS prepared by: Fred Widman
Recommended use: Cleaner / Reducer

2. HAZARD IDENTIFICATION OF THE PREPARATION

This preparation is classified as a flammable liquid according to 29CFR 1910.1200

EMERGENCY OVERVIEW

Appearance / Odor: liquid / typical

Potential Health Effects: See Section 11 for more information

Likely routes of exposure: Eye and skin contact, inhalation and ingestion

Potential Health Effects: Eyes

This product may be irritating to the eyes.

Potential Health Effects: Skin

Repeated exposure may cause skin dryness or cracking

Some absorption expected

Potential Health Effects: Ingestion

Ingestion of this product may be irritating to the digestive system.

Potential Health Effects: Inhalation

Inhalation of this product may be irritating to the respiratory system.

Vapours may cause drowsiness and dizziness

Xi	Irritant
N	Dangerous for the environment
10	Flammable
36/38	Irritating to eyes and skin
43	May cause sensitization by skin contact
50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Target Organs: eyes and skin

This product does not contain any carcinogens or potential carcinogens as listed by OSHA or NTP. The IARC gives a 3 rating to p-Menthadiene = "not classifiable as to carcinogenicity to humans"

Potential Environmental Effects: See Section 12 for more information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture of the below mentioned materials and non-hazardous substances

Hazardous components:

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8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational exposure limit:

CAS #	Name	OSHA TWA	ACGIH TWA
108-65-6	2-Methoxy-1-methylethyl acetate	50 ppm	Not established
107-98-2	1-Methoxy-2-Propanol	Not established	100 ppm
5989-27-5	p-Menthadiene	Not established	Not established

Engineering controls

General- not required

Local exhaust- recommended. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition for details.

Other- none

Personal Protection

Gloves- solvent impermeable recommended

Respirator- yes if local or general exhaust is not used

Eye- NIOSH approved protective goggles recommended

Protective footwear- not required

Protective clothing- not required

Other- none

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : liquid

Color: dependent on coloration

Odor: typical

Flash point: 106°F (41°C)

Ignition temperature: 880°F (470°C)

Density: 0.88 g/cm³

Viscosity: 11 s 4mm

Explosion limits: 1.9-12.6 Vol %

Boiling point: not known

Vapour density: not known

Vapour pressure: not known

Freezing point: not applicable

pH: not applicable

Coefficient of water/ oil distribution: not known

Volatile Organic Compound (VOC) content: 880 GRAMS / LITER, 7.33 LBS / GALLON

10. STABILITY AND REACTIVITY

Stable under recommended storage and handling conditions

(see Section 7).

Store as a flammable liquid. Keep away from oxidizers and sources of ignition.

Possible Harmful Reactions: None known

11. TOXICOLOGICAL INFORMATION

Effects of acute exposure:

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COMPONENT	CAS#	LD ₅₀	LC ₅₀
2-methoxy propanol acetate	108-65-6	8500 mg/kg, oral, rat	Unknown
p-menthadiene	5989-27-5	4400 mg/kg, oral, rat	Unknown
1-Methoxy-2-Propanol	107-98-2	5660 mg/kg, oral, rat	10,000 ppm/5H, inhalation rat

General information:

Effects of acute exposure- irritation
Repeated exposure may lead to permanent respiratory disability.
Irritancy of product- yes
Skin sensitization- possible
Respiratory sensitization- possible
Irritancy of product- yes
Skin sensitization- possible
Respiratory sensitization- possible
Carcinogenicity- no
IARC- p-menthadiene is rated "3" by the IARC. See Section 2
ACGIH- no
Reproductive toxicity- No known effects
Teratogenicity- No known effect
Embryotoxicity- No known effects
Mutagenicity- Unknown
Name of synergistic products/effects- none known

12. ECOLOGICAL INFORMATION

This preparation has been classified by the conventional method (calculating procedure) of EG directive 1999/45/EG and according to its ecotoxic properties, -*001 (see Sections 2 and 15 for detailed information).
Do not empty into drains or release into open water. Do not store at public waste disposal sites.

13. WASTE DISPOSAL INFORMATION

Dispose of as a flammable hazardous waste
Empty container: scrap metal recycling or re-conditioning
Soiled container: (treatment like product itself)

14. TRANSPORT INFORMATION

ADR/RID/DOT: Class: 3
UN: 1263
Paint related material
Quantities smaller than 450 kg are not regulated for shipment (Combustible)
Packaging group: III
IMDG: Class: 3
EMS: F-E, S-E
UN: 1263

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Paint related material

Marine pollutant: no
Packaging group: III

15. REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR and is classified as a B3 and D2B hazardous material.

All ingredients are listed on the TSCA registry.

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65 at levels which would be subject to the proposition.

Labeling

Xi Irritant
N Dangerous for the environment

R-phrases:

10 Flammable
36/38 Irritating to eyes and skin
43 May cause sensitization by skin contact
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S-phrases:

23 Do not breathe gas / fumes / vapor / spray
24/25 Avoid contact with skin and eyes
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical attention
61 Avoid release to the environment. Refer to special instructions / safety data sheets.
62 If swallowed, do not induce vomiting: Seek medical advice immediately and show this container or label

Special labeling:

n.a
National Regulation for Germany:
Water pollution class: 2

Ingredient	--Canada--			
	TSCA	EC	DSL	NDSL
2-methoxy-1-methylethyl acetate (108-65-6)	Yes	Yes	Yes	No
p-menthadiene (5989-27-5)	Yes	Yes	Yes	No
1-Methoxy-2-Propanol (107-98-2)	Yes	Yes	Yes	No

Ingredient	-SARA 302-		SARA 313 List	-RCRA- RQ	CERCLA 261.33	- TSCA 8(d)
	RQ	TPQ				
2-methoxy-1-methylethyl acetate	No	No	No	No	No	Yes
p-menthadiene	No	No	No	No	No	No
1-Methoxy-2-Propanol	No	No	No	No	No	Yes

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16. OTHER INFORMATION

HMIS: Health 2, Flammability 2, Reactivity 0

Text of risk phrases mentioned in Section 2:

Xi	Irritant
N	Dangerous for the environment
10	Flammable
36/38	Irritating to eyes and skin
43	May cause sensitization by skin contact
50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

For further information please refer to our technical information sheet. Data in this MSDS correspond with our current level of knowledge, but do not represent any assurance of product properties. The user personally is responsible for compliance with all legal requirements.

DISCLAIMER OF RESPONSIBILITY:

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