

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

Product: 23108
Date: 11/23/2004

ULTIMATE INK WASH
Revision date: 5/12/2010

1. IDENTIFICATION OF PRODUCT AND COMPANY

Product Code: 23108
Product Name: **ULTIMATE INK WASH**
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 / combustible liquid according to 29CFR 1910-1200.

EMERGENCY OVERVIEW

Appearance / Odor: liquid / typical ester

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

F	Flammable liquid
Xn	Harmful
N	Dangerous for the environment
10	Flammable
20	Harmful by inhalation
36/37/38	Irritating to eyes, respiratory system and skin
51/53	Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
65	Harmful: may cause lung damage if swallowed

Target Organs: Not known

This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

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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Hazardous combustion products: typical carbon oxygen compounds.

Fire fighters should wear SCBA for fighting fires in enclosed areas.

Autoignition temp: 446°F (230°C)

6. ACCIDENTAL RELEASE MEASURES

Do not empty into drains. Keep away sources of ignition. Ensure Prevent unauthorized access. Collect with liquid absorbing material and proceed according to local waste disposal regulations.

7. HANDLING AND STORAGE

Keep container tightly closed and in a cool and well ventilated place. Ensure adequate ventilation, especially when using a spray-gun. Avoid contact with skin and eyes. Avoid flammable/ explosive air / vapor-mixtures and prevent concentrations exceeding the exposure limits.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational exposure limit:

CAS #	Name	OSHA PEL	ACGIH TWA
103-65-1	Propylbenzene	Not established	Not established
108-67-8	mesitylene	Not established	25 ppm
95-63-6	1,2,4-trimethyl-benzene	Not established	25 ppm
64742-95-6	Naphtha (petrol. distillates)	100 ppm*	Not established
108-65-6	2-methoxy propanol acetate	Not established	Not established
872-50-4	N.methyl-2-pyrrolidone	Not established	Not established
108-83-8	Diisobutyl Ketone	50 ppm	25 ppm
123-42-2	4-hydroxy-4-methylpentane-2-one	50 ppm	50 ppm

*not listed, supplier recommendation

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: clear, transparent

Odor: typical ester

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Flash point: 114°F (46°C)
 Ignition temperature: 446°F (230°C)
 Density: 0.93 g/cm³
 Viscosity: 11 s 4 mm
 Explosion limits: 1.9 – 12.0 Vol %
 Boiling point: 385°F (196°C)
 Vapour density: Not known
 Vapour pressure: 3 mbar
 Freezing point: not applicable
 pH: not applicable
 Coefficient of water/ oil distribution: not known

Volatile Organic Compound (VOC) content: 883 GRAMS / LITER, 7.36 LBS / GALLON

10. STABILITY AND REACTIVITY

Stable under recommended storage and handling conditions
(see Section 7).

Store as a flammable liquid

Possible Harmful Reactions: None known other than flammability

11. TOXICOLOGICAL INFORMATION

Effects of acute exposure:

COMPONENT	CAS#	LD ₅₀	LC ₅₀
Propylbenzene	103-65-1	6040 mg/kg, oral, rat	20,000 mg/m ³ , inhalation, mouse
Mesitylene	108-67-8	8,970 mg/kg, oral, rat	>2,400 ppm, inhalation, rat
1,2,4-trimethylbenzene	95-63-6	5000 mg/kg, oral, rat	Unknown
Naphtha (petroleum distillates)	64742-95-6	6800 mg/kg, oral, rat 3400 mg/kg dermal, rat	>10.2 mg/L 4H, inhalation, rat
2-methoxy propanol acetate	108-65-6	8500 mg/kg, oral, rat	Unknown
N-methyl-2-pyrrolidone	872-50-4	3914 mg/kg, oral, rat	Unknown
4-hydroxy-4-methylpentane-2-one	123-42-2	4 g/kg, oral, rat 13,500, skin, rabbit	Unknown
Diisobutyl Ketone	108-83-8	5750 mg/kg, oral, rat 16 g/kg, skin, rabbit	Unknown

General information:

Effects of acute exposure- irritation

2-Methoxy-1-propanol has been shown to cause developmental effects in female

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rabbits exposed to 225, 350, and 545 ppm by inhalation during pregnancy. No effect was observed at 145 ppm (NOEL) in this study. The acetate of 2-methoxy-1-propanol also has been tested for developmental effects. Information for the acetate is pertinent since the acetate portion of this molecule is quickly removed in a living organism to yield 2-methoxy-1-propanol. The offspring of rats exposed to concentrations of 0, 110, 550, or 2,700 ppm developed vertebral incisions at the highest exposure level, in the presence of maternal toxicity.

Rabbits exposed to 0, 36, 145, or 550 ppm of 2-methoxy-1-propanol acetate bore offspring that showed malformations of sternum, paws, major blood vessels and the heart at the highest exposure level. A concentration of 145 ppm was the no observed effect level (NOEL) for adverse developmental effects from the acetate of 2-methoxy-1-propanol.

Repeated exposure may lead to permanent respiratory disability.

Irritancy of product- yes

Skin sensitization- possible

Respiratory sensitization- possible

Carcinogenicity- Naphtha has been suspected of being a carcinogen.

IARC- no

ACGIH- no

Reproductive toxicity-May damage developing fetus

Teratogenicity- No known effect

Embryotoxicity- May damage fetus

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

DOT: Class: Not classified as a flammable material

UN: n.a Packaging group: n.a

CFR49 173.150(f)(2) reclassified as a combustible liquid in non-bulk pkg.

ADR/RID/IMDG: Class: 3

EMS: F-E, S-E

UN: 1993

Flammable liquid, nos
(solvent naphtha (-MP-))

Packaging group: III

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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, 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 known to contain N-methyl-2-pyrrolidine currently listed as reproductive toxin under California Proposition 65 at levels which would be subject to the proposition.

Labeling

F Flammable liquid
N Dangerous for the environment

R-phrases:

10 Flammable
20 Harmful by inhalation
36/37/38 Irritating to eyes, respiratory system and skin
51/53 Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
65 Harmful: may cause lung damage if swallowed

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

--Canada--

Ingredient	TSCA	EC	DSL	NDSL
Propylbenzene (103-65-1)	Yes	Yes	Yes	No
Mesitylene (108-67-8)	Yes	Yes	Yes	No
1,2,4-trimethyl-benzene (95-63-6)	Yes	Yes	Yes	No
4-hydroxy-4-methylpentane-2-one (123-42-2)	Yes	Yes	Yes	No
Diisobutyl Ketone (108-83-8)	Yes	Yes	Yes	No
N-methyl-2-pyrrolidone (872-50-4)	Yes	Yes	Yes	No
Naphtha Petroleum Distillates (64742-95-6)	Yes	Yes	Yes	No
2-methoxy-1-methylethyl acetate (108-65-6)	Yes	Yes	Yes	No

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Ingredient	-SARA 302-		SARA 313	-RCRA-	CERCLA	TSCA
	RQ	TPQ	List	RQ	261.33	8(d)
Propylbenzene	No	No	No	No	No	No
Mesitylene	No	No	No	No	No	No
1,2,4-trimethyl-benzene	No	No	Yes	No	No	No
Naphtha, Petroleum Distillates	No	No	No	No	No	No
4-hydroxy-4-methylpentane-2-one	No	No	No	No	No	Yes
Diisobutyl Ketone	No	No	No	No	No	No
N-methyl-2-pyrrolidone	No	No	Yes	No	No	No
2-methoxy-1-methylethyl acetate	No	No	No	No	No	Yes

16. OTHER INFORMATION

HMIS: Health 2, Flammability 2, Reactivity 0

Text of risk phrases mentioned in Section 2:

- F Flammable liquid
- Xn Harmful
- N Dangerous for the environment
- 10 Flammable
- 20 Harmful by inhalation
- 36/37/38 Irritating to eyes, respiratory system and skin
- 51/53 Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
- 65 Harmful: may cause lung damage if swallowed

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.

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