

## Material Safety Data Sheet

Product: 24403  
Date: 3/25/2009

KIWO MEGACLEAN ACTIVE  
Revision date: 3/25/2009

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### 1. IDENTIFICATION OF PRODUCT AND COMPANY

Product Code: 24403

Product Name: **KIWO MEGACLEAN ACTIVE**

Company: KIWO, Inc.  
1929 Marvin Circle  
Seabrook, TX 77586

Phone: 281-474-9777

Fax: 281-474-7325

**Emergency Contact: 1-800-255-3924 (Chemtel)**

Supplier: Screentec Corporation  
930 West Port Crescent  
Mississauga, ONT  
L5T 1G1 Canada

Phone: (905) 670-7042

Fax: (905) 670-7046

MSDS prepared by: Fred Widman

Recommended use: Screen Printing Screen Cleaner

### 2. HAZARD IDENTIFICATION OF THE PREPARATION

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

Potential Health Effects: Eyes

Corrosive! This product causes irritation to eyes. Greater exposure can cause burns that may result in permanent impairment of vision, even blindness.

Potential Health Effects: Skin

Corrosive! Contact with skin can cause irritation or severe burns and scarring with greater exposures.

Potential Health Effects: Ingestion

Swallowing can cause severe burns of the mouth, throat and stomach. Severe scarring of tissue and death may result. Symptoms may include bleeding, vomiting, diarrhea and a fall in blood pressure.

Potential Health Effects: Inhalation

Signs of respiratory tract irritation (such as nasal discharge and difficulty breathing) may occur after exposure to aerosol or high vapor concentrations.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture of non hazardous ingredients and below listed ingredients:

C	Corrosive
Xi	Irritant
35	Causes severe burns
36/37/38	Irritating to eyes, respiratory system and skin

### 4. FIRST AID MEASURES

**First Aid: Eyes**

After eye contact, (remove contact lenses) keep eyelids open, rinse under running water for at least 10 minutes. Seek medical advice immediately.

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### First Aid: Skin

After skin contact, clean thoroughly with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Seek medical attention immediately. Thoroughly clean shoes and clothing prior to reuse.

### First Aid: Ingestion

After ingestion, **DO NOT INDUCE VOMITING**, seek medical advice. If conscious, give large quantities of water or milk if available. If unconscious, do not administer anything orally. Place in stable side position and seek medical advice. If breathing is irregular or has stopped, apply artificial respiration and seek medical attention.

### First Aid: Inhalation

If symptoms are experienced, remove source of contamination or move victim to fresh air. If breathing is irregular or has stopped, apply artificial respiration. Seek medical advice.

## 5. FIRE-FIGHTING MEASURES

Flammable- Combustible

Means of extinction – Treat surrounding fire  
Unsuitable extinguishing media – None known

Flash point- >199°F (>93°C)

Upper flammable limit- 12.0%

Explosion data impact- not applicable

Lower flammable limit -1.2%

Explosion data static- not applicable

Hazardous combustion products – Carbon

Monoxide and other toxic fumes

Autoignition temp- 518°F (270°C)

In the event of fire, wear full protective and NIOSH approved self-contained breathing apparatus with full face piece operated in the pressure demand or positive pressure mode.

## 6. ACCIDENTAL RELEASE MEASURES

Do not empty into drains. Ventilate area of leak or spill. Wear appropriate personal protective equipment. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Absorb with inert material and place in a waste container. Do not flush into sewer! US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities.

## 7. HANDLING AND STORAGE

Keep container tightly closed and in a cool, dark, and well ventilated place. Avoid contact with skin and eyes. Prevent exposure to concentrations exceeding the exposure limits. Ensure proper ventilation especially when using a spray-gun.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational exposure limit:

EINECS-No CAS-No.	Name R-phrases	Hazard	%content
212-828-1 872-50-4	1-Methyl-2-pyrrolidone 36/37/38-61	Xi	10.0-30.0%
203-961-6 112-34-5	2-(2-Butoxyethoxy) ethanol 36	Xi	5.0-10.0%
215-185-5 1310-73-2	Sodium Hydroxide 35	C	10.0-30.0%

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### Additional information:

For full text of risk phrases see Section 16.

### Engineering controls

A system of local and or general exhaust is recommended. Local exhaust ventilation is generally preferred because it can control the emission of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent addition, for details.

### Personal Protection

**Gloves**- Impervious gloves

**Eye**- Use NIOSH approved chemical safety goggles and or full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

**Clothing** - Wear impervious clothing, gloves, lab coat, apron or coveralls as appropriate to prevent skin contact. Polyvinyl alcohol (PVA) is a recommended material for personal protective equipment.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: liquid

Color: light yellow to beige

Odor: mild amine

Flash point: N.A

Ignition temperature: N.A

Density: ~1.02 g/cm<sup>3</sup>

Viscosity: light paste

Boiling point: >392°F (>200°C)

pH: ~13

Vapor pressure- >n

Evaporation rate- not available

Vapor density- not available

Coefficient of water/oil distribution- Dispersible in water

## 10. STABILITY AND REACTIVITY

Chemical stability- This material is stable when properly handled and stored.

Conditions to avoid – extended contact with air or oxygen. In contact with moisture, this hygroscopic (readily absorbs water) material may degrade or become contaminated.

Hazardous decomposition products – Carbon Monoxide and other toxic vapors.

Incompatibility with – acids, moisture and humidity.

## 11. TOXICOLOGICAL INFORMATION

Effects of acute exposure -

COMPONENT	CAS#	LD <sub>50</sub>	LC <sub>50</sub>
N-Methyl-2-pyrrolidone	872-50-4	3914 mg/kg, oral, rat	>5mg/l (aerosol) inhal., rat, 4H
2-(2-Butoxyethoxy) Ethanol	112-34-5	5660 mg/kg, oral rat	Unknown
Sodium Hydroxide	1310-73-2	6,600 mg/kg, oral mouse 4,090 mg/kg, oral, rat	1,200 mg/m <sup>3</sup> /2H, inhalation, mouse

Effects of chronic exposure:

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Skin sensitization – Prolonged or repeated skin exposure may cause dermatitis.

EYES: May cause permanent eye injury

Carcinogenicity of Product-

IARC- no

ACGIH- no

Reproductive toxicity-none known

Teratogenicity – none known

Embryotoxicity – none known

Mutagenicity – none known

Name of synergistic products/effects-none known

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity** – This material is not expected to bioaccumulate.

**Environmental Fate** – It may enter soil and may contaminate water, but bioaccumulation has not been observed.

**Biodegradation** – All components are considered biodegradable.

### 13. WASTE DISPOSAL INFORMATION

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations.

Empty container – scrap recycling or reconditioning

Soiled container – treatment like product itself

### 14. TRANSPORT INFORMATION

**Special Requirements** – The following proper shipping name, hazard class, and packaging groups are in accordance with the Canadian Transport for Dangerous Goods Regulations (TDGR)

**Proper Shipping Name** – Corrosive liquid, nos  
(sodium hydroxide)

DOT/ IATA: Class: 8, UN 1760  
Packaging group: II

IMDG: Corrosive liquid, nos  
(sodium hydroxide)  
Class: 8, UN 1823  
Marine pollutant: no  
Packaging group: II

### 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 Code E hazardous material.

All ingredients are listed on the TSCA registry.

#### Labeling

C Corrosive

Xi Irritant

#### R-phrases:

35 Causes severe burns

36/37/38 Irritating to eyes, respiratory system and skin

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### S-phrases:

36/37/38 Wear suitable protective clothing, gloves and eye / face protection  
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  
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

Ingredient	--Canada--			
	TSCA	EC	DSL	NDSL
1-Methyl-2-pyrrolidone (872-50-4)	Yes	Yes	Yes	No
2-(2-Butoxyethoxy) ethanol (112-34-5)	Yes	Yes	Yes	No
Sodium Hydroxide (1310-73-2)	Yes	Yes	Yes	No

Ingredient	-SARA 302-		SARA 313	-RCRA-	CERCLA	- TSCA
	RQ	TPQ	List	RQ	261.33	8(d)
1-Methyl-2-Pyrrolidone	No	No	Yes	No	No	No
2-(2-Butoxyethoxy) ethanol	No	No	No	No	No	No
Sodium Hydroxide	No	No	No	No	1000	No

**Volatile Organic Compounds (VOC'S) = <0.1%**

### 16. OTHER INFORMATION

#### HMIS: Health 2 Flammability 0 Reactivity 1

Text of risk phrases mentioned in Section 2:

C Corrosive  
Xi Irritant  
35 Causes severe burns  
36/37/38 Irritating to eyes, respiratory system and skin

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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