

# Safety Data Sheet

## GHS VERSION

Article No.: 23108x  
Print date 6/13/2016  
Version 1.3

ULTIMATE INK WASH  
Revision date 6/9/2016  
Issue date 6/9/2016



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### 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifiers

Article No. (manufacturer/supplier): 23108x  
Identification of the substance or mixture: ULTIMATE INK WASH

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### Relevant identified uses

Cleaner / Thinner. Reserved for industrial and professional use.

#### 1.3. Details of the supplier of the safety data sheet

##### supplier (manufacturer/importer/downstream user/distributor)

KIWO Inc.  
1929 Marvin Circle Telephone: +1 281-474-9777  
Seabrook, TX 77586 Telefax: +1 281-474-7325  
USA

#### 1.4. Emergency telephone number

Emergency telephone: 1-800-255-3924 / +1 813-248-0573 (ChemTel)

### 2. Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to GHS

This mixture is classified as hazardous according to GHS

Flam. Liq. 3 / H226	flammable liquids	Flammable liquid and vapour.
Skin Irrit. 2 / H315	skin corrosion/irritation	Causes skin irritation.
Eye Irrit. 2A / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Muta. 1B / H340	Germ cell mutagenicity	May cause genetic defects.
Carc. 1B / H350	Carcinogenicity	May cause cancer.
Repr. 1B / H360	Reproductive toxicity	May damage fertility or the unborn child.
STOT SE 1 / H370	Specific target organ toxicity (single exposure)	Causes damage to organs.
STOT SE 3 / H335	Specific target organ toxicity (single exposure)	May cause respiratory irritation.
STOT RE 2 / H373	Specific target organ toxicity (repeated exposure)	May cause damage to organs through prolonged or repeated exposure.
Asp. Tox. 1 / H304	Aspiration hazard	May be fatal if swallowed and enters airways.
Aquatic Chronic 3 / H412	Hazardous to the aquatic environment	Harmful to aquatic life with long lasting effects.

#### 2.2. Label elements

The product is classified and labelled according to GHS.

##### Labelling according to GHS

##### Hazard pictograms



Danger

##### Hazard statements

H226 Flammable liquid and vapour.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H340 May cause genetic defects.  
H350 May cause cancer.  
H360 May damage fertility or the unborn child.  
H370 Causes damage to organs.  
H335 May cause respiratory irritation.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H304 May be fatal if swallowed and enters airways.  
H412 Harmful to aquatic life with long lasting effects.

##### Precautionary statements

P201 Obtain special instructions before use.

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- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P260 Do not breathe vapour.
- P280 Wear protective gloves and eye/face protection.
- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P308 + P311 IF exposed or concerned: Call a POISON CENTER.
- P308 + P313 IF exposed or concerned: Get medical advice/attention.
- P331 Do NOT induce vomiting.
- P370 + P378 In case of fire: Use Extinguishing powder or sand to extinguish.
- P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
- P403 + P235 Store in a well-ventilated place. Keep cool.

**contains:**

- hydrocarbons, C9, aromatics
- N-methyl-2-pyrrolidone
- 2,2' -oxybisethanol
- 2,6-dimethylheptan-4-one

2.3. Other hazards

### 3. Composition / Information on ingredients

3.2. Mixtures

**Product description / chemical characterization**

**Description** Mixture of components, as listed below, with nonhazardous constituents

**Hazardous ingredients**

**Classification according to GHS**

EC No.	REACH No.	Wt %
CAS No.	Chemical name	Remark
INDEX No.	classification:	
918-668-5	01-2119455851-35	
64742-95-6	hydrocarbons, C9, aromatics	10 - 30
649-356-00-4	Muta. 1B H340 / Carc. 1B H350 / Asp. Tox. 1 H304	
203-872-2	01-2119457857-21	
111-46-6	2,2' -oxybisethanol	10 - 30
603-140-00-6	Acute Tox. 4 H302 / STOT SE 1 H370 / STOT RE 2 H373	
203-620-1		
108-83-8	2,6-dimethylheptan-4-one	10 - 30
606-005-00-X	Flam. Liq. 3 H226 / STOT SE 3 H335	
202-436-9		
95-63-6	1,2,4-trimethylbenzene	5 - 10
601-043-00-3	Flam. Liq. 3 H226 / Acute Tox. 4 H332 / Eye Irrit. 2 H319 / STOT SE 3 H335 / Skin Irrit. 2 H315 / Aquatic Chronic 2 H411	
216-372-4	01-2119474443-37-0000	
1569-01-3	1-propoxypropan-2-ol	5 - 10
	Eye Irrit. 2A H319 / Flam. Liq. 3 H226	
212-828-1	01-2119472430-46-0001	
872-50-4	N-methyl-2-pyrrolidone	5 - 10
606-021-00-7	Skin Irrit. 2 H315 / Eye Irrit. 2A H319 / Repr. 1B H360 / STOT SE 3 H335 / Flam. Liq. 4 H227	
204-626-7	01-2119473975-21	
123-42-2	4-hydroxy-4-methylpentan-2-one	5 - 10
603-016-00-1	Acute Tox. 4 H312 / Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / STOT SE 3 H335 / Flam. Liq. 3 H226	
500-315-8		
127087-87-0	4-Nonylphenol, branched, ethoxylated	1 - 5
	Skin Irrit. 2 H315 / Eye Irrit. 2B H320 / STOT SE 3 H335	

**Additional information**

Full text of classification: see section 16

### 4. First-aid measures

4.1. Description of first aid measures

### General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice. In case of irregular breathing or respiratory arrest provide artificial respiration.

#### Following skin contact

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately.

#### After eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### After ingestion

Seek medical advice immediately. Do NOT induce vomiting.

#### 4.2. Most important symptoms and effects, both acute and delayed

In all cases of doubt, or when symptoms persist, seek medical advice.

#### 4.3. Indication of any immediate medical attention and special treatment needed

### 5. Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Carbon dioxide Water mist Foam

##### Extinguishing media which must not be used for safety reasons:

strong water jet

#### 5.2. Special hazards arising from the substance or mixture

Gases/vapours, toxic

#### 5.3. Advice for firefighters

Provide a conveniently located respiratory protective device.

#### Additional information

The danger areas must be delimited and identified using relevant warning and safety signs. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous.

### 6. Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition. Ventilate affected area. Remove persons to safety. Do not breathe vapours. See protective measures under point 7 and 8.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations. Provide good ventilation.

#### 6.3. Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see chapter 13).

#### 6.4. Reference to other sections

Observe protective provisions (see chapter 7 and 8).

### 7. Handling and storage

#### 7.1. Precautions for safe handling

##### Advices on safe handling

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Product may become electrostatically charged. When transferring, earthed pipework shall be used exclusively. Anti-static clothing including shoes are recommended. Use only spark proof tools. Avoid contact with skin and eyes. Do not inhale vapours or mist.

Do not eat, drink or smoke when using this product.

Personal protection equipment: refer to chapter 8.

Follow the legal protection and safety regulations.

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### 7.2. Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions

Keep container tightly closed in a cool, well-ventilated place.

#### Requirements for storage rooms and vessels

Always keep in containers that correspond to the material of the original container. Ensure adequate ventilation of the storage area.

#### Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

#### Additional information

VCI-storage class, see Chapter 15

### 7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use.

## 8. Exposure controls / Personal protection

### 8.1. Control parameters

#### Occupational exposure limit values:

n.a.

### 8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

#### Personal protection equipment

##### Respiratory protection

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Observe the wear time limits according to GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

##### Hand protection

Wear chemical resistant protective gloves.

##### Eye protection

Wear closed protection glasses.

##### Protective clothing

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

##### Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

##### Environmental exposure controls

This solvent is to be sent to recycling or to disposal after use. Incorrect disposal endangers the environment. After use, all mixtures with other foreign substances or solvents of other types is forbidden.

## 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance:

**Physical state** liquid  
**Colour** refer to label  
**Odour** characteristic

#### Safety relevant basis data

		Method	Remark
<b>Flash point:</b>	46 °C	ASTM D 93 Pensky-Martens	
<b>Ignition temperature (AIT)</b>	230 °C		
<b>Lower explosion limit</b>	1.0 Vol-%		
<b>Upper explosion limit</b>	22.0 Vol-%		
<b>Vapour pressure at 20 °C:</b>	2.33 mbar		
<b>Density at 20 °C:</b>	0.93 g/cm <sup>3</sup>		
<b>Water solubility (g/L)</b>	partially soluble		
<b>pH at 20 °C:</b>	-		
<b>Viscosity at 20 °C:</b>	10 s 4 mm	EN ISO 2431	

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**Initial boiling point and boiling range** 135 °C (101,3 kPa)  
**Decomposition temperature (°C):** 0

### 9.2. Other information:

## 10. Stability and reactivity

### 10.1. Reactivity

### 10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7.

### 10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

### 10.4. Conditions to avoid

### 10.5. Incompatible materials

### 10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.:carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

## 11. Toxicological information

Classification for mixtures and used evaluation method according to GHS

No data on preparation itself available.

### 11.1. Information on toxicological effects

#### Acute toxicity

Toxicological data are not available.

#### skin corrosion/irritation; Serious eye damage/eye irritation

Toxicological data are not available.

#### Respiratory or skin sensitisation

Toxicological data are not available.

#### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Toxicological data are not available.

#### Specific target organ toxicity

Toxicological data are not available.

#### Aspiration hazard

Toxicological data are not available.

#### Practical experience/human evidence

Other observations:

Prolonged or repeated contact with the preparation can lead to irritations of mucous membranes and of skin such as redness, formation of blebs, dermatitis, etc..In case of inhalation dizziness, Nausea Inhalation causes narcotic effects/intoxication.Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

#### Overall Assessment on CMR properties

EC No. CAS No.	Chemical name	Classification according to EC regulation 1272/2008 (CLP):
918-668-5 64742-95-6	hydrocarbons, C9, aromatics	Carc. 1B Muta. 1B
212-828-1 872-50-4	N-methyl-2-pyrrolidone	Repr. 1B

#### Remark

There is no information available on the preparation itself .

## 12. Ecological information

### overall evaluation

Classification for mixtures and used evaluation method according to GHS

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Do not store at public landfills.

### 12.1. Toxicity

No information available.

#### Long-term Ecotoxicity

Toxicological data are not available.

### 12.2. Persistence and degradability

Toxicological data are not available.

### 12.3. Bioaccumulative potential

Toxicological data are not available.

#### Bioconcentration factor (BCF)

Toxicological data are not available.

### 12.4. Mobility in soil

Toxicological data are not available.

### 12.5. Results of PBT assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6. Other adverse effects

## 13. Disposal considerations

### 13.1. Waste treatment methods

#### Appropriate disposal / Product Recommendation

#### packaging

#### Recommendation

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

## 14. Transport information

### 14.1. UN number

UN 1993

### 14.2. UN proper shipping name

Land transport (ADR / RID / DOT):

Flammable liquid, n.o.s.  
(Solvent naphtha)

Sea transport (IMDG):

FLAMMABLE LIQUID, N.O.S.  
(Solvent naphtha)

Air transport (ICAO-TI / IATA-DGR):

Flammable liquid, n.o.s.  
(Solvent naphtha)

### 14.3. Transport hazard class(es)

3

### 14.4. Packing group

III

### 14.5. Environmental hazards

Land transport (ADR / RID / DOT):

n.a.

Marine pollutant

n.a.

### 14.6. Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

#### Additional information

#### Land transport (ADR / RID / DOT):

tunnel restriction code

D/E

#### Sea transport (IMDG)

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EmS-No. F-E, S-E  
Packaging >30 l

14.7. **Transport in bulk according to Annex II of MARPOL and the IBC Code**  
not applicable

### 15. Regulatory information

15.1. **Safety, health and environmental regulations/legislation specific for the substance or mixture**

#### EU legislation

**Observe in addition any national regulations!**

calculated with mixing rule

**Substance/product listed in the following inventories:**

Not listed in TOXIC SUBSTANCES CONTROL ACT (TSCA)

15.2. **Chemical Safety Assessment**

Chemical safety assessments for substances in this preparation were not carried out.

### 16. Other information

#### Full text of classification in section 3:

Muta. 1B / H340	Germ cell mutagenicity	May cause genetic defects (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
Carc. 1B / H350	Carcinogenicity	May cause cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
Asp. Tox. 1 / H304	Aspiration hazard	May be fatal if swallowed and enters airways.
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
STOT SE 1 / H370	Specific target organ toxicity (single exposure)	Causes damage to organs (or state all organs affected, if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
STOT RE 2 / H373	Specific target organ toxicity (repeated exposure)	May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
Flam. Liq. 3 / H226	flammable liquids	Flammable liquid and vapour.
STOT SE 3 / H335	Specific target organ toxicity (single exposure)	May cause respiratory irritation.
Acute Tox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Skin Irrit. 2 / H315	skin corrosion/irritation	Causes skin irritation.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.
Eye Irrit. 2A / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Repr. 1B / H360	Reproductive toxicity	May damage fertility or the unborn child (state specific effect if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
Flam. Liq. 4 / H227	flammable liquids	Combustible liquid.
Acute Tox. 4 / H312	Acute toxicity (dermal)	Harmful in contact with skin.
Eye Irrit. 2B / H320	Serious eye damage/eye irritation	Causes eye irritation.

#### Additional information

Classification for mixtures and used evaluation method according to GHS

The information supplied on this safety data sheet is correct to the best of our knowledge. Without written approval, the product must not be used for purposes different from those mentioned in chapter 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.