



# MATERIAL SAFETY DATA SHEET

(In accordance with ISO 11014-1 Standard)

Product Name: Cleaning Cartridge for Slide Printer and Cassette Printer

Revision Date: 2008-12-01

## 1. Identification of the Substance

**Product Name:** Cleaning Cartridge for Slide Printer and Cassette Printer – (product code #8036)

**Manufactured For:** Sakura Finetek USA, Inc.  
Torrance, CA 90501 USA  
**Tel: 310-972-7800**

**Emergency Telephone Number:**  
**800-424-9300 (Chemtrec)**

## 2. Composition/Data on Components

### **Chemical nature:**

1-methoxypropan-2-ol  
CAS-No. 107-98-2  
EINECS-No. 203-539-1

### **Hazardous ingredients:**

CAS-No. 1589-47-5  
2-methoxypropanol  
Content: < 0.5 % weight  
Hazard symbol: T  
R-phrases: 61-10-37/38-41

## 3. Hazards Identification

**Advice on critical hazards to man and the environment:** Flammable

## 4. First Aid Measures

**General advice:** Immediately remove contaminated clothing. If there is danger of loss of consciousness, place patient in recovery position and transport accordingly. Apply artificial respiration if necessary. If difficulties occur after vapor/aerosol has been inhaled: fresh air, summon physician.

**On skin contact:** Wash thoroughly with soap and water.

**On contact with eyes:** Wash affected eyes for at least 15 minutes under running water with eyelids held open.

**On ingestion:** Immediately rinse mouth and then drink plenty of water, summon physician.

**Note to physician:** Treat according to symptoms (decontamination, vital functions), no known specific antidote.

## 5. Fire Fighting Measures

**Suitable extinguishing media:** Water, dry extinguishing media, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>).

**Special protective equipment:** Wear breathing equipment operated independently of ambient air, and protective firefighting suit.

**Further information:** Collect separately contaminated extinguishing water, do not allow to reach sewerage or effluent systems. Contaminated extinguishing water must be disposed of in accordance with local regulations.

**If product is involved in fire:** Foam should be applied in large quantities as it is broken down to some extent by the product. Keep containers cool by spraying with water if exposed to fire.

## 6. Accidental Release Measures

**Personal precautions:** The usual precautions for the handling of chemicals must be observed.

**Environmental precautions:** Do not let product enter drains.

**Methods for cleaning up:** Small amounts: Contain with absorbent material and dispose. Large spillages should be dammed-off and pumped into containers; soak up remainder with absorbent material and dispose of in accordance with local regulations.

## 7. Handling and Storage

**Handling:** Protection against fire and explosion: Ensure thorough ventilation of stores and work areas.

Prevent electrostatic charge - sources of ignition should be kept clear - fire extinguishers should be kept handy. Electrical equipment must be suitable for Temperature Class T 3 (VDE0165) (Germany).

**Storage:** Prevent contact with air/oxygen (formation of peroxide). Keep tightly closed in a dry and cool place.

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### **8. Exposure Controls/Personal Protection**

**Additional information on the lay-out of technical plant:** ( see 7 )

**Components with workplace control parameters:**

1-methoxypropan-2-ol; CAS-No. 107-98-2 MAK: 100 ml/m<sup>3</sup> = 370 mg/m<sup>3</sup> (Germany)

2-methoxypropanol; CAS-No. 1589-47-5 MAK: 20 ml/m<sup>3</sup> = 75 mg/m<sup>3</sup> (Germany)

The values and other data of TRGS 900 (Germany) must be observed.

**Personal protective equipment:**

Hand protection: protective gloves (butyl rubber)

Eye protection: safety glasses with side-shields

Body protection: closed working clothing

General safety and hygiene measures: The usual precautions for the handling of chemicals must be observed.

### **9. Physical and Chemical Properties**

**Form:** Liquid

**Color:** Colorless

**Odor:** Mild, alcoholic

**Melting point/melting range:** -95 °C

**Boiling point/boiling range:** 119-122 °C

**Flash point:** 32 °C (DIN 51 755)

**Explosion limits:**

- lower 1.7 Vol. %

- upper 11.5 Vol. %

**Ignition temperature:** 270 °C (DIN 51 794)

**Vapor pressure:** (20 °C) 13.3 mbar

**Density:** (20 °C) 0.92 g/cm<sup>3</sup>

**Solubility in water:** (20 °C) fully miscible

**Solubility in other solvents:** Soluble in many organic solvents

**pH value:** (at 200 g/l, 20 °C) 4-7

**Octanol/water partition coefficient (log POW):** 0.43

**Viscosity:** (20 °C) 1.91 mPa.s

### **10. Stability and Reactivity**

Hazardous reaction influenced by strong oxidizing agents.

### **11. Toxicological Information**

**Chronic Effects of Overexposure:** Prolonged overexposure to methanol may cause visual impairment, nervous system, liver, and kidney damage. Ethanol and methanol have been found to cause adverse reproductive effects in laboratory animals.

**Carcinogen or Suspected Carcinogen:** None of the components are listed as a carcinogen or suspected carcinogen.

**Medical Conditions Aggravated By Exposure:** Individuals with pre-existing liver or kidney disorders may be at increased risk from exposure.

*Acute Exposure Effects:*

**Inhalation:** Inhalation of vapors can cause respiratory irritation, nausea, headaches, dizziness, and other signs of narcosis. Prolonged overexposure may result in transient or permanent blindness and liver or kidney damage.

**Ingestion:** Ingestion may cause gastrointestinal irritation and nervous system depression with symptoms of headaches, nausea, and narcosis. Severe abdominal, back, and leg pain may occur along with transient or permanent blindness, liver and kidney damage. May be fatal if large volume is ingested.

**Skin Contact:** Contact may cause irritation. Liquid may be absorbed through the skin and can cause effects similar to ingestion. Treat at once.

**Eye Contact:** May cause moderate to severe irritation with possible damage. Absorption may cause optic nerve damage resulting in transient or permanent blindness.

## **12. Ecological Information**

### **Elimination information**

Test method: OECD 301E/ EEC 84/449, C.3

Method of analysis: DOC reduction

Degree of elimination: > 70%

Evaluation: biodegradable

### **Behavior and environmental fate**

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

### **Ecotoxic effects**

Toxicity to fish LC50/Leuciscus idus/: > 4600 mg/l/96h

### **Further ecological information**

AOX: This product contains no organically bound halogen.

## **13. Advice on Disposal**

Must be disposed of by special means, e.g. suitable incineration, in accordance with local regulations.

**Contaminated packaging:** Contaminated packs should be emptied as far as possible, they can then be passed on for recycling after being thoroughly cleaned.

## **14. Transport Information**

### **Land transport**

ADR/RID Class: 3 Item number/letter: 31C

Warning panel Hazard-no: 30 Substance no.: 3092

UN-No: 3092

Description of the goods: 1-METHOXY-2-PROPANOL.

### **Inland waterway transport**

ADN/ADNR Class: 3 Item number/letter: 31C

Description of the goods: 1-METHOXY-2-PROPANOL.

### **Sea transport**

IMDG/GGVSee Class: 3.3 UN-No: 3092 PG: III

EMS: 3-06 MFAG: 330

Marine pollutant: no

Proper technical name: 1-METHOXY-2-PROPANOL.

### **Air transport**

ICAO/IATA Class: 3 UN/ID-No.: 3092 PG: III

Proper technical name: 1-METHOXY-2-PROPANOL.

## **15. Regulatory Information**

### **Labeling according to EEC Directives**

The substance should be labeled as follows according to EEC "Hazardous Substances" Directive:

INDEX-No. 603-064-00-3

R10 - Flammable.

S24 - Avoid contact with skin.

### **National legislation/regulations**

Water hazard class: 1 (VwVwS (Germany) of 17.5.1999, Annex 2)

## **16. Other Information**

This Material Safety Data Sheet has been furnished on request. A revised Material Safety Data Sheet will be furnished only if requested, also in case of specification changes. The above information, which is accurate to the best of our knowledge and belief, describes the safety aspects of our product but does not warrant any product properties. The company gives no warranty as to the accuracy or completeness of such information.