

# MATERIAL SAFETY DATA SHEET

MSDS ID#: 100176

Date Prepared: January 17, 2000

Revision: February 19, 2007

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** SCP-700, SCP-701, SCP-702, SCP-703, SCP-704, SCP-705, SCP-706, SCP-709, SCP-719, SCP-740 (FD) INK

**Product Code:** I0471

**Colors Covered:** Black, Blue, Red, Green, Orange, SP Blue, Red/Orange, UV, SP Red, SP Black

**Supplier Name:** Matthews International Corporation

**Address:** 101 Fairview Avenue

**City:** Pittsburgh

**State/Zip:** Pennsylvania, USA, 15238

**Phone:** (412)665-2500

**Fax:** (412)365-2341

**24 Hour Emergency Phone:** (412)456-7499

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

<input type="checkbox"/> Substance			<input checked="" type="checkbox"/> Mixture		
<u>Hazardous Components</u>	<u>Percent</u>	<u>CAS No.</u>	<u>TLV</u>	<u>R-Phrase</u>	<u>S-Phrases</u>
Methyl Ethyl Ketone	85-95	78-93-3	200 ppm	R11, R36/37	S9, S16, S25, S33
n-Propanol	0-5	71-23-8	200 ppm	R11, R41, R67	S7, S16, S24, S26, S39
Isopropyl Alcohol	1-5	67-63-0	400 ppm	R11, R36, R67	S7, S16, S24/25, S26

## 3. HAZARDS IDENTIFICATION

**Most Important Hazards:** Flammable liquid and vapor. Irritating to the eyes and respiratory system.

**Main Symptoms of Overexposure:** EYES- severely irritating. If not removed promptly, will injure eye tissue, which may result in permanent damage; SKIN- frequent or prolonged contact may irritate and cause dermatitis. Low order of toxicity; INHALATION- vapor concentrations above recommended exposure levels are irritating to the eyes and respiratory tract, may cause headaches and dizziness, are anesthetic and may have other CNS effects. Low order of toxicity; INGESTION- Small amounts of the liquid aspirated into the respiratory system during ingestion, or from vomiting, may cause bronchiopneumonia or pulmonary edema. HMIS: H-1, F-3, R-0

## 4. FIRST AID MEASURES

**Inhalation:** Using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest. Call for prompt medical attention.

**Skin Contact:** Immediately flush with large amounts of water, use soap if available. Remove contaminated clothing, including shoes, after flushing has begun.

**Eye Contact:** Immediately flush eyes with large amounts of water for at least 15 minutes, including under the eyelids. Get prompt medical attention.

**Ingestion:** If swallowed, DO NOT induce vomiting. Keep at rest. Get prompt medical attention.

## 5. FIRE-FIGHTING MEASURES

**Extinguishing media:** Water spray, dry chemical, carbon dioxide, alcohol foam.

**Specific Hazards:** Flammable liquid. Can release vapors that form flammable mixtures at or above the flashpoint. Vapors may travel a considerable distance to a source of ignition and flash back.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Eliminate all ignition sources.

**Environmental precautions:** Prevent liquid from entering sewers, watercourses or low areas.

**Methods of cleaning up:** Land Spill: Keep public away. Shut off source if possible to do so without hazard. Contain spilled liquid with sand or earth. Dilute contained spill with water. Recover by pumping or with a suitable absorbent. Consult an expert on disposal of recovered material. Water Spill: Eliminate sources of ignition. Warn occupants and shipping in downwind areas of fire and explosion hazard. Hose over spill to effect dilution of water soluble material.

## 7. HANDLING AND STORAGE

**Handling-Precautions:** Avoid contact with eyes. Wash thoroughly after handling.

**Safe handling Advice:** Flammable liquid. Keep away from heat, sparks and open flames. This material is not a static accumulator but use proper grounding equipment.

**Storage-Conditions:** Keep container closed. Handle containers with care. Store in a cool, well ventilated area away from incompatible materials. Protect material from direct sunlight.

**Incompatible Products:** Strong oxidizing agents.

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### 8. EXPOSURE CONTROL/PERSONAL PROTECTION

**Engineering Measures:** The use of mechanical dilution ventilation is recommended whenever this product is used in a confined space, is heated above ambient temperatures or otherwise to maintain ambient concentration below the recommended threshold exposure limits

**Personal Protective Equipment:** Eliminate all ignition sources.

**Respiratory Protection:** If engineering controls do not maintain concentrations below recommended exposure limits, an approved respirator should be worn. Type: organic vapor.

**Hand Protection:** Where prolonged or repeated skin contact may occur, impervious gloves should be worn.

**Eye Protection:** Wear safety glasses with side shields or goggles.

**Skin and Body Protection:** Recommended Decontamination Facilities: eye bath, safety shower, washing facilities.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b> Liquid	<b>Color:</b> Various	<b>Odor:</b> Ketone
<b>Flashpoint:</b> -4° C (25° F)	<b>Autoignition temperature:</b> >450° C (>842° F) (for MEK)	<b>pH:</b> N/A
<b>Density:</b> 0.82	<b>Vapor Pressure:</b> N/A	
<b>Vapor Density:</b> >1 (for MEK)	<b>Solubility in Water:</b> Some	
<b>Boiling Point:</b> N/A	<b>Freezing Point:</b> -86° C (-123° F) (for MEK)	
<b>V.O.C.:</b> 760-780 g/l	<b>Evaporation rate(Butyl Acetate=1):</b> 6.0 (for MEK)	

### 10. STABILITY AND REACTIVITY

**Stable:** Yes      **Conditions to avoid:** Avoid heat, sparks and open flames.

**Materials to avoid:** Strong oxidizing agents

**Hazardous decomposition products:** Carbon monoxide, carbon dioxide

### 11. TOXICOLOGICAL INFORMATION

**Acute toxicity:** Oral LD50 (rat) 1.87-6.5 g/kg; Oral LD50 (mouse) 4.5 g/kg; Inhalation LC50 (rat) ≥20,000 ppm/hour; Dermal LD50 (rabbit) 4.0 g/kg (for MEK)

**Chronic Toxicity:** There is no evidence that exposure to MEK alone causes progressive or irreversible neurotoxic effects. However, simultaneous overexposure to MEK and N-Hexane can potentiate the known irreversible effects of N-Hexane. Inhalation Study (41 days, mouse)- 10,900 ppm (narcosis) (target organ effects: liver); Dermal Study (30 days, rabbit)- Lowest observed effect level: 45 ml/kg/day (for Isopropyl Alcohol)

**Sensitization:** No

**Specific Effects:** None

### 12. ECOLOGICAL INFORMATION

**Possible Environmental Effects:** This substance is relatively volatile and will evaporate from water and soil over the course of a few days. This substance is expected to biodegrade rapidly and be "readily" biodegradable under OECD guidelines. This substance is expected to be removed in a wastewater treatment plant. Low acute toxicity to aquatic organisms is expected. (for MEK)

### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal:** Dispose of in accordance with all local, state, and federal regulations.

### 14. TRANSPORT INFORMATION

**Land:** (DOT)- regulated, Flammable liquid, Class 3, packaging group II, Proper Shipping Name: Printing Ink, UN 1210

**Inland Waterways:** (AND/R)- N/A

**Sea:** (IMDG)- regulated, Flammable liquid, Class 3, packaging group II; Proper Shipping Name- Printing Ink, UN 1210

**Air:** (ICAO/IATA)- regulated, Flammable liquid; Class 3, Packing Group II; Proper Shipping Name- Printing Ink, UN 1210

### 15. REGULATORY INFORMATION

**Hazard and Safety Information:** California Prop 65- MEK listed; PA hazardous substance list- n-Propanol, MEK listed; WHMIS (Canada)- MEK- B2/D2A/D2B; N-Propanol- B2/D2B; Isopropyl Alcohol- B2/D2B; IARC, NTP- not listed; SARA 313- listed; SARA 311,312- Acute health hazard, chronic health hazard, fire hazard; TSCA- listed; EINECS- MEK: #201-159-0, Isopropyl Alcohol: #200-661-7, n-Propanol: #200-746-9; **MEK:** R11- Highly Flammable, R36/37- Irritating to eyes and respiratory system; S9- Keep container in a well ventilated place, S16- Keep away from sources of ignition- No Smoking, S25- Avoid contact with eyes, S33- Take precautionary measures against static discharges; **Isopropyl Alcohol:** R11- Highly Flammable, R36- Irritating to eyes, R67- Vapors may cause drowsiness and dizziness, S7- Keep container tightly closed, S16- Keep away from sources of ignition- No Smoking, S24/25- Avoid contact with skin and eyes, S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice, **n-Propanol:** R11- Highly flammable, R41- Risk of serious damage to eyes, R67- Vapors may cause drowsiness and dizziness; S7- Keep container tightly closed, S16- Keep away from sources of ignition - No smoking, S24- Avoid contact with the skin, S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice, S39- Wear eye/face protection

**Ozone Depleting Chemicals Present:** None

### 16. OTHER INFORMATION

Containers of this material may be hazardous when emptied, all hazard precautions given in the data sheet must be observed. The information contained herein is based upon what we believe to be reliable data. However, we make no warranty or guarantees, expressed or implied, concerning the accuracy of such information and disclaim all liability from reliance thereon. You should evaluate the information through your own sources prior to use.

Reference ISO 11014-1