

03/03/2011



**Kolight & Cana Co.,Ltd.**  
Ultra precision technology  
<http://www.kolight.co.kr>

## Material Safety Data Sheet

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This material safety data sheet (MSDS) is provided as a courtesy in response to a customer request. This product is not regulated under, and a MSDS is not required for this product by the OSHA Hazard Communication Standard (29 CFR 1910.1200) because, when used as recommended or under ordinary conditions, it should not present a health and safety hazard. However, use or processing of the product not in accordance with the product's recommendations or not under ordinary conditions may affect the performance of the product and may present potential health and safety hazard.

### SECTION 1 : PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** KOLIGHT AND CANA (TM) REFLECTIVE LINEMAKER

**MANUFACTURER:** KOLIGHT AND CANA CO., LTD.

**DIVISION:** Retro-Reflective Safety Material R&D Dept.

**ADDRESS:** KOLIGHT AND CANA

4F CANA B/D 374-3, JANGAN-DONG, DONGEAEMUN-GU, SEOUL, KOREA

EMERGENCY PHONE: + 82-2-454-0476

**Issue Date:** 03/03/2011

**Supercedes Date:** Initial Issue

**Product Use:**

Specific Use: CUSTOM OF PURPOSE

## SECTION 2 : INGREDIENTS

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>% by Wt</u>
POLYVINYLCHLORIDE	Unknown	70
PHTHALATE PLASTICIZER	Unknown	20

## SECTION 3 : HAZARDS IDENTIFICATION

### 3.1 EMERGENCY OVERVIEW

**Color:** REFLECTIVE LINEMAKER-01(White)~ REFLECTIVE LINEMAKER -15(Magenta)

**General Physical Form:** Solid

**Immediate health, physical, and environmental hazards:** The environmental properties of this product present a low environmental hazard. This product, when used under reasonable conditions and in accordance with the KOLIGHT AND CANA directions for use, should not present a health hazard. However, use or processing of the product in a manner not in accordance with the product's directions for use may affect the performance of the product and may present potential health and safety hazards.

### 3.2 POTENTIAL HEALTH EFFECTS

**Eye Contact:**

No health effects are expected.

**Skin Contact:**

No health effects are expected.

**Inhalation:**

No health effects are expected.

**Ingestion:**

No health effects are expected.

### 3.3 POTENTIAL ENVIRONMENTAL EFFECTS

This substance does not leach metals or other RCRA(Resource Conservation and Recovery Act) listed TCLP(Toxic Characteristic Leaching Procedure) hazardous substances at concentrations that would make the product a hazardous waste.

## SECTION 4 : FIRST AID MEASURES

### 4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

**Eye Contact:** No need for first aid is anticipated.

**Skin Contact:** No need for first aid is anticipated.

**Inhalation:** No need for first aid is anticipated.

**If Swallowed:** No need for first aid is anticipated.

## SECTION 5 : FIRE FIGHTING MEASURES

### 5.1 FLAMMABLE PROPERTIES

Autoignition temperature	<i>No Data Available</i>
Flash Point	<i>Not Applicable</i>
Flammable Limits - LEL	<i>Not Applicable</i>
Flammable Limits - UEL	<i>Not Applicable</i>
OSHA Flammability Classification:	Not Applicable

### 5.2 EXTINGUISHING MEDIA

Ordinary combustible material. Use fire extinguishers with class A extinguishing agents (e.g., water, foam). Material will not burn. Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

### 5.3 PROTECTION OF FIRE FIGHTERS

**Special Fire Fighting Procedures:** Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

**Unusual Fire and Explosion Hazards:** No unusual fire or explosion hazards are anticipated.

Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.

## SECTION 6 : ACCIDENTAL RELEASE MEASURES

**Accidental Release Measures:** Not applicable.

## SECTION 7 : HANDLING AND STORAGE

### 7.1 HANDLING

Avoid breathing of dust created by cutting, sanding, grinding or machining. This product is considered to be an article which does not release or otherwise result in exposure to a hazardous chemical under normal use conditions.

### 7.2 STORAGE

Store under normal warehouse conditions.

## SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 ENGINEERING CONTROLS

Use with appropriate local exhaust ventilation. Provide appropriate local exhaust when product is heated.  
Provide appropriate local exhaust for cutting, grinding, sanding or machining.

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## 8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

### 8.2.1 Eye/Face Protection

Avoid eye contact.

### 8.2.2 Skin Protection

Gloves not normally required. Not applicable.

### 8.2.3 Respiratory Protection

Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection.

### 8.2.4 Prevention of Swallowing

Not applicable.

## 8.3 EXPOSURE GUIDELINES

None Established

## SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

Color:	REFLECTIVE LINEMAKER-01(White)~REFLECTIVE LINEMAKER-15(Magenta)
General Physical Form:	Solid
Autoignition temperature	<i>No Data Available</i>
Flash Point	<i>Not Applicable</i>
Flammable Limits - LEL	<i>Not Applicable</i>
Flammable Limits - UEL	<i>Not Applicable</i>
Boiling point	<i>Not Applicable</i>
Vapor Density	<i>Not Applicable</i>

Vapor Pressure *Not Applicable*

Specific Gravity *Not Applicable*

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pH *Not Applicable*

Melting point *No Data Available*

Solubility In Water *Not Applicable*

Evaporation rate *Not Applicable*

Volatile Organic Compounds *Not Applicable*

Percent volatile *Not Applicable*

VOC Less H<sub>2</sub>O & Exempt Solvents *Not Applicable*

Viscosity *Not Applicable*

## SECTION 10 : STABILITY AND REACTIVITY

**Stability:** Stable.

**Materials and Conditions to Avoid:** None known

**Hazardous Polymerization:** Hazardous polymerization will not occur.

**Hazardous Decomposition:** Under recommended usage conditions, hazardous decomposition products are not expected. Hazardous decomposition products may occur as a result of oxidation, heating, or reaction with another material.

## SECTION 11 : TOXICOLOGICAL INFORMATION

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

## SECTION 12 : ECOLOGICAL INFORMATION

## ECOTOXICOLOGICAL INFORMATION

Not Applicable

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## CHEMICAL FATE INFORMATION

Not Applicable

### SECTION 13 : DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Reclaim if feasible. If product can't be reclaimed, dispose of waste product in a sanitary landfill. Alternatively, incinerate the waste product in an industrial, commercial, or municipal incinerator.

Since regulations vary, consult applicable regulations or authorities before disposal.

### SECTION 14 : TRANSPORT INFORMATION

Please contact the emergency numbers listed on the first page of the MSDS for Transportation Information for this material.

### SECTION 15 : REGULATORY INFORMATION

#### US FEDERAL REGULATIONS

Contact **KOLIGHT AND CANA** for more information.

#### 311/312 Hazard Categories:

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard - No

Immediate Hazard - No

Delayed Hazard - No

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## STATE REGULATIONS

Contact [KOLIGHT AND CANA](#) for more information.

## CHEMICAL INVENTORIES

This product is an article as defined by TSCA regulations, and is exempt from TSCA Inventory listing requirements. Contact [KOLIGHT AND CANA](#) for more information.

## INTERNATIONAL REGULATIONS

Contact [KOLIGHT AND CANA](#) for more information.

This MSDS has been prepared to meet U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

## SECTION 16 : OTHER INFORMATION

### NFPA Hazard Classification

Health: 0 Flammability: 0 Reactivity: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent

physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

No revision information is available.

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