

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 06/29/2010

Reviewed on 06/29/2010

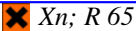

1 Identification of substance

- **Product details**
- **Trade name:** K-BK1 - "K Series" Black Stencil Ink
- **Article number:** K-BK-G50, K-BK-G, K-BK-Q, 5A136
- **Application of the substance / the preparation** Printing inks
- **Manufacturer/Supplier:**
Marsh Shipping Supply Co.,LLC
926 McDonough Lake Road - Unit E
Collinsville, IL 62234
USA
- **Information department:** MSDS DEPT.
- **Emergency information:**
Chemtrec 800-424-9300
International 703-527-3887

2 Composition/Data on components

- **Chemical characterization**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Hazardous components**

64742-47-8	Distillates (petroleum), hydrotreated light	 Xn; R 65 Danger:  3.10/1	78.25%
	glycerol ester of partially polymerized rosin		12.49%
1333-86-4	Carbon black		8.63%

- **Additional information:**
For the wording of the listed risk phrases refer to section 16.
This product contains pigments which may become a dust nuisance when removed by abrasive blasting or sanding.
Airborne nuisance particulates have an ACGIH TLV for total dust of 10mg/M3

3 Hazards identification

- **Hazard description:**
Read MSDS before using
NOTICE-For professional users only! This material is intended for use by trained professional applicators, only after carefully examining this MSDS and evaluating safety precautions associated with the use of this material.



Xn Harmful

- **Information pertaining to particular dangers for man and environment:**
The product has to be labelled due to the calculation procedure of international guidelines.
R 65 Harmful: may cause lung damage if swallowed.
- **Target Organs**
Overexposure to this material or its components has been suggested as a cause of the following effects in laboratory animals and/or humans, and may aggravate preexisting disorders of these organs in humans: Anemia, Blood disorders, Brain damage, Cardiac function, eye, liver, lung, menstrual and fertility, skin, respiratory, Central Nervous System
- **Classification system:**
The classification was made according to the latest editions of international substances lists and from component data and msds information

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· **NFPA ratings (scale 0 - 4)**· **HMIS-ratings (scale 0 - 4)**· **GHS label elements**

3.10/1 - May be fatal if swallowed and enters airways.

· **Response:**

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Do NOT induce vomiting.

· **Storage:**

Store locked up.

· **Disposal:**

Dispose of contents/container in accordance with local/regional/national/international regulations.

4 First aid measures

· **General information:**

Seek immediate medical advice.

Take affected persons out into the fresh air.

Involve doctor immediately.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.· **After skin contact:** Immediately rinse with water for 15 minutes. If irritation exists call physician.· **After eye contact:**

Rinse opened eye for fifteen minutes under running water. If irritation persists, consult a doctor.

· **After swallowing:**

If symptoms persist consult doctor.

Do not induce vomiting; immediately call for medical help.

· **Information for doctor:**

This material is an aspiration hazard. Potential danger from aspiration must be weighed against oral toxicity when deciding to induce vomiting. Symptoms of chemical pneumonitis may not be manifest until hours or even days after overexposure.

· **The following symptoms may occur:**

Breathing difficulty

Headache

Dizziness

Thirst

Cramp

Gastric or intestinal disorders

Coughing

Allergic reactions

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Nausea

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5 Fire fighting measures

- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards caused by the material, its products of combustion or resulting gases:**
Nitrogen oxides (NO_x)
Carbon monoxide (CO)
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.
- **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

- **Person-related safety precautions:**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Wear protective clothing.
- **Measures for environmental protection:**
Do not allow product to reach sewage system or any water course.
Do not allow to enter sewers/ surface or ground water.
Prevent from spreading (e.g. by damming-in or oil barriers).
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
Dispose of the collected material according to regulations.
- **Additional information:**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Handling:**
- **Information for safe handling:** Prevent formation of aerosols.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **Information about storage in one common storage facility:**
Do not store together with oxidizing and acidic materials as well as heavy-metal compounds.
Store away from foodstuffs.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.

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8 Exposure controls and personal protection

· **Components with limit values that require monitoring at the workplace:**

glycerol ester of partially polymerized rosin

TLV Short-term value: 3 (rf) 10 (total) mg/m³

1333-86-4 Carbon black

PEL 3.5 mg/m³

REL 3.5* mg/m³

*0.1 in presence of PAHs, as PAHs; 10-hr TWA

TLV 3.5 mg/m³

64742-47-8 Distillates (petroleum), hydrotreated light

exposure for petroleum distillate
OSHA TWA 500ppm

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

Pregnant women should strictly avoid inhalation or skin contact.

Do not eat, drink, smoke or sniff while working.

· **Breathing equipment:**

Use suitable respiratory protective device in case of insufficient ventilation.

Use only with adequate ventilation.

· **Protection of hands:**



Protective gloves

· **Material of gloves**

Nitrile or natural rubber gloves are typically used to protect from minor contact. Butyl type are best for prolonged contact.

· **Eye protection:** Goggles recommended during refilling.

· **Body protection:**

Tyvek(R) coveralls to protect from light overspray protection or Saranex 23-P(R) for moderate exposure.

9 Physical and chemical properties

· **General Information**

Form:	Fluid
Color:	Black
Odor:	Characteristic

· **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 175°C (347°F)

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· Flash point:	94°C (201°F)
· Ignition temperature:	210°C (410°F)
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	0.5 Vol %
Upper:	6.5 Vol %
· Vapor pressure at 20°C (68°F):	2 hPa (2 mm Hg)
· Density at 20°C (68°F):	0.83555 g/cm ³
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
· Solvent content:	
Organic solvents:	78.2 %
VOC content:	78.2 %
	653.8 g/l / 5.46 lb/gl
· Solids content:	21.8 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Materials to be avoided:**
- **Dangerous reactions** Reacts with acids, alkalis and oxidizing agents.
- **Dangerous products of decomposition:**
Aldehyde
Hydrocarbons
Carbon monoxide and carbon dioxide

11 Toxicological information

- **Acute toxicity:**

· LD/LC50 values that are relevant for classification:		
64742-47-8 Distillates (petroleum), hydrotreated light		
Oral	LD50	>8000 mg/kg (rat)
Dermal	LD50	>4000 mg/kg (rabbit)
Inhalative	LC50/4 h	>2500 (PPM) mg/l (rat)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Harmful

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12 Ecological information

- **Additional ecological information:**

- **General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water
This statement was deduced from the properties of the single components.

13 Disposal considerations

- **Product:**

- **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Hand over to hazardous waste disposers.

This material and containers that are not empty, if discarded, would be regulated as a hazardous waste under RCRA. Treatment and disposal must be completed at a RCRA permitted treatment, storage, and disposal facility (TSD). The storage and transportation of RCRA hazardous wastes are also regulated by the USEPA.

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **DOT regulations:**

- **Hazard class:** -

- **Remarks:** Printing Ink Not regulated

- **Land transport ADR/RID (cross-border):**

- **ADR/RID class:** -

- **Remarks:** Printing Ink Not Regulated

- **Maritime transport IMDG:**

- **IMDG Class:** -

- **Marine pollutant:** No

- **Remarks:** Printing Ink Not Regulated

- **Air transport ICAO-TI and IATA-DGR:**

- **ICAO/IATA Class:** -

- **Remarks:** Printing Ink Not Regulated

- **UN "Model Regulation":** -

15 Regulations

- **Sara**

- **SARA Title III Section 311/312 - Hazard Communication Standard (40 CFR 370)**

64742-47-8	Distillates (petroleum), hydrotreated light	78.25%
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- **TSCA (Toxic Substances Control Act):**

All ingredients are listed or exempt.

64742-47-8	Distillates (petroleum), hydrotreated light
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	glycerol ester of partially polymerized rosin
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1333-86-4	Carbon black
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8030-76-0	lecethin f (kelcin)
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- **Cancerogenity categories**

- **IARC (International Agency for Research on Cancer)**

1333-86-4	Carbon black	2B	8.63%
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- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **TLV (Threshold Limit Value established by ACGIH)**

1333-86-4	Carbon black	A4	8.63%
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- **NIOSH (National Institute for Occupational Safety and Health)**

1333-86-4	Carbon black	*	8.63%
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- **State regulations**

- **Massachussets Right-to-know / Hazardous Substance Codes**

1333-86-4	Carbon black	2,4 F5	8.63%
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- **Minnesota Right To Know / Hazardous Substances**

1333-86-4	Carbon black	Codes: ANOR, Carcinogen	8.63%
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- **Illinois Right To Know**

None of the ingredients is listed.

- **Product related hazard informations:**

The product has been classified and marked in accordance with directives on hazardous materials.

- **Hazard symbols:**

Xn Harmful

- **Hazard-determining components of labelling:**

Distillates (petroleum), hydrotreated light

- **Risk phrases:**

65 Harmful: may cause lung damage if swallowed.

- **Safety phrases:**

23 Do not breathe the gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).

33 Take precautionary measures against static discharges.

36 Wear suitable protective clothing.

51 Use only in well-ventilated areas.

60 This material and its container must be disposed of as hazardous waste.

62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

- **National regulations:**

- **Occupational Safety and Health Act (OSHA)**

Immediate (acute) health hazard

Delayed (chronic) Health Hazard

- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

16 Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

- **Relevant R-phrases**

65 Harmful: may cause lung damage if swallowed.

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· Contact: Mike Rickert**· Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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