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

· Product identifier

· Trade name: K-BK1 - ''K Series'' Black Stencil Ink

· Article number: K-BK-G50, K-BK-G, K-BK-Q, 5A136

· Relevant identified uses of the substance or mixture and uses advised against

- No further relevant information available.
- · Application of the substance / the preparation Printing inks

· Details of the supplier of the safety data sheet

- Manufacturer/Supplier: Marsh Shipping Supply Co.,LLC 926 McDonough Lake Road - Unit E Collinsville, IL 62234 USA
- Information department: customerservice@msscllc.com MSDS DEPT.
- Emergency telephone number: Infotrac: USA 1 800 535 5053 International 352-323-3500 Call Collect

2 Hazards identification

· Classification of the substance or mixture



GHS08 Health hazard

H304 May be fatal if swallowed and enters airways.

• Classification according to Directive 67/548/EEC or Directive 1999/45/EC

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.



R65: Harmful: may cause lung damage if swallowed.

· Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of international guidelines.

• Classification system:

The classification was made according to the latest editions of international substances lists and from component data and msds information

· Label elements

- *Labelling according to EU guidelines:* The product has been classified and marked in accordance with directives on hazardous materials.
- Code letter and hazard designation of product: Xn Harmful
- *Hazard-determining components of labelling: Distillates (petroleum), hydrotreated light*

· Risk phrases:

65 Harmful: may cause lung damage if swallowed.

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· Safety phrases:

23 Do not breathe 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.

· Information pertaining to particular dangers for man and environment:

· 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:
- · NFPA ratings (scale 0 4)



· HMIS-ratings (scale 0 - 4)

HEALTH1Health = 1FIRE1Fire = 1REACTIVITY0Reactivity = 0

· Other hazards

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · **vPvB:** Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture of the substances listed below with nonhazardous additions.

· Hazardous components			
64742-47-8	Distillates (petroleum), hydrotreated light	🗙 Xn R65	78.25%
		₩ <i>H</i> 304	
	polymer		12.49%
1333-86-4	Carbon black		8.63%

· Additional information:

For the wording of the listed risk phrases refer to section 16.

This prodct 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

4 First aid measures

· Description of first aid measures

• General information:

Seek immediate medical advice.

Take affected persons out into the fresh air.

Involve doctor immediately.

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- After skin contact: Immediately rinse with water for 15 minutes. If irritation exists call physcian.
- 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.

Nost important symptoms and effects, both acute and delayed Breathing difficulty Headache Dizziness Thirst Cramp Gastric or intestinal disorders Coughing Allergic reactions Nausea
Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Firefighting measures

· Extinguishing media

• Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. • Special hazards arising from the substance or mixture

Nitrogen oxides (NOx) Carbon monoxide (CO)

- · Advice for firefighters
- **Protective equipment:** Wear self-contained respiatory 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

Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Wear protective clothing.
Environmental precautions: 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).
Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. • **Reference to other sections** 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:

- · Precautions for safe handling Prevent formation of aerosols.
- Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · 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.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Control parameters

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

polymer

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

1333-86-4 Carbon black

PEL 3.5 mg/m³

REL $3.5* mg/m^3$

- *0.1 in presence of PAHs, as PAHs; 10-hr TWA
- TLV 3* mg/m³ *inhalable fraction

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

· Exposure controls

· 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 ventillation.

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· 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.

Information on basic physical and c	chemical properties	
General Information		
Appearance:		
Form:	Fluid	
Color:	Black	
Odor:	Characteristic	
Odour threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	175 °C (347 °F)	
Flash point:	94 °C (201 °F)	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:	210 °C (410 °F)	
Decomposition temperature:	Not determined.	
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 (6.973 lbs/gal)	
Relative density	Not determined.	
Vapour density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
Partition coefficient (n-octanol/wate	e r): Not determined.	
Viscosity:		
Dynamic:	Not determined.	

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Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	78.2 %	
VOC content:	78.2 %	
	653.8 g/l / 5.46 lb/gl	
Solids content:	21.8 %	
• Other information	<i>Ther information No further relevant information available.</i>	

10 Stability and reactivity

· Reactivity

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions Reacts with acids, alkalis and oxidizing agents.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products:
- Aldehyde
- Hydrocarbons

Carbon monoxide and carbon dioxide

11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

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

OralLD50>8000 mg/kg (rat)DermalLD50>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

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)	
1333-86-4 Carbon black	2B 8.63%
· NTP (National Toxicology Program)	
None of the ingredients is listed.	
	USA

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12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · 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.

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· 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

* V		
· UN-Number · DOT, ADR, ADN, IMDG, IATA	Void	
· UN proper shipping name · DOT, ADR, ADN, IMDG, IATA	Void	
· Transport hazard class(es)		
· DOT, ADR, ADN, IMDG, IATA · Class	Void	
· Packing group · DOT, ADR, IMDG, IATA	Void	
· Environmental hazards: · Marine pollutant:	No	
· Special precautions for user	Not applicable.	
• Transport in bulk according to Annex . MARPOL73/78 and the IBC Code	II of Not applicable.	
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Transport/Additional information:		
DOT Remarks:	Printing Ink Not regulated	
ADR Remarks:	Printing Ink Not Regulated	
IMDG Remarks:	Printing Ink Not Regulated	
IATA Remarks:	Printing Ink Not Regulated	
UN "Model Regulation":	-	

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

· SARA Title	III Section 311/312 - Hazard Communication Standard (40 CF	R 370)				
64742-47-8	Distillates (petroleum), hydrotreated light			78.25%		
	c Substances Control Act):			·		
0	nts are listed or exempt.					
64742-47-8	Distillates (petroleum), hydrotreated light					
	polymer					
1333-86-4	Carbon black					
8030-76-0	lecethin f (kelcin)					
· Proposition	65 /Chemicals known to cause cancer:					
1333-86-4 (Carbon black			8.63%		
· Cancerogen						
	hold Limit Value established by ACGIH)					
1333-86-4 (Carbon black		Α	4 8.63%		
· NIOSH (Na	tional Institute for Occupational Safety and Health)					
1333-86-4 (Carbon black			* 8.63%		
· State regula	tions					
· Massachussetts Right-to-know / Hazardous Substance Codes						
1333-86-4 (Carbon black		2,4 F	5 8.63%		
• Minnesota H	Right To Know / Hazardous Substances					
1333-86-4 (Carbon black	Codes: ANOR,	Carcinoge	n 8.63%		
· Illinois Righ	t To Know					
None of the t	ingredients is listed.					
	ted hazard informations: has been classified and marked in accordance with directives or	n hazardous mat	erials.			
· Hazard sym	bols:					
Xn Harmful			(Cont	d. on page 9)		
			(COIII	a. on page))		

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· 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 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. · Chemical safety assessment: A Chemical Safety Assessment has not been carried out. **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 phrases H304 May be fatal if swallowed and enters airways. *R65* Harmful: may cause lung damage if swallowed. · Contact: Mike Rickert · Abbreviations and acronvms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organization ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association 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

USA