

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 02/07/2008

Reviewed on 02/07/2008

1 Identification of substance

- **Product details**
- **Trade name:** CM1-BK Contact Marking Black Ink
- **Article number:** CM1-BK-4, CM1-BK-P
- **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.
customerservice@msscllc.com
- **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

1333-86-4	Carbon black	6.89%
8001-79-4	Castor oil	78.6%
8001-22-7	Soybean Oil	13.88%
8030-76-0	lecethin f (kelcin)	0.63%

- **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
- **Information pertaining to particular dangers for man and environment:** Not applicable.
- **Inhalation**
Can cause nasal and respiratory tract irritation. Can cause Central Nervous System effects including fatigue, dizziness, nausea, vomiting, unconsciousness, respiratory failure, headache, possible hearing impairment.
- **Potential Chronic Health Effects** Irritation of skin or organs.
- **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

(Contd. on page 2)

USA

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 02/07/2008

Reviewed on 02/07/2008

Trade name: CMI-BK Contact Marking Black Ink

(Contd. of page 1)

- **Classification system:**

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

- **NFPA ratings (scale 0 - 4)**



Health = 1

Fire = 1

Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



Health = 1

Fire = 1

Reactivity = 0

4 First aid measures

- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.

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:** No special measures required.
- **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:**
Ensure adequate ventilation
Wear protective clothing.
- **Measures for environmental protection:**
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:** 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.

(Contd. on page 3)

USA

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 02/07/2008

Reviewed on 02/07/2008

Trade name: CMI-BK Contact Marking Black Ink

(Contd. of page 2)

See Section 13 for disposal information.

7 Handling and storage

- **Handling:**
- **Information for safe handling:**
No special measures required.
Store in cool, dry place in tightly closed receptacles.
Keep away from heat and direct sunlight.
- **Information about protection against explosions and fires:**
Protect against electrostatic charges.
Protect from heat.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** *Store only in the original receptacle.*
- **Information about storage in one common storage facility:** *Store away from foodstuffs.*
- **Further information about storage conditions:**
Protect from humidity and water.
Protect from exposure to the light.

8 Exposure controls and personal protection

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

1333-86-4 Carbon black

PEL	3.5 mg/m ³
REL	3.5* mg/m ³
	*0.1 in presence of PAHs, as PAHs; 10-hr TWA
TLV	3.5 mg/m ³

- **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.
Avoid contact with the eyes and skin.
- **Breathing equipment:**
Use suitable respiratory protective device in case of insufficient ventilation.
Use only with adequate ventillation.
- **Protection of hands:** *Not required.*
- **Material of gloves:** *Nitrile rubber, NBR*
- **Eye protection:** *Not required.*

9 Physical and chemical properties

- **General Information**

Form:	<i>Fluid</i>
Color:	<i>Black</i>

(Contd. on page 4)

USA

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 02/07/2008

Reviewed on 02/07/2008

Trade name: CMI-BK Contact Marking Black Ink

(Contd. of page 3)

Odor:	Weak, characteristic
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	351°C (664°F)
· Flash point:	93°C (199°F)
· Ignition temperature:	450.0°C (842°F)
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Heating may cause an explosion.
· Vapor pressure at 20°C (68°F):	1.0 hPa (1 mm Hg)
· Density at 20°C (68°F):	1.00 g/cm ³
· Solubility in / Miscibility with Water:	Insoluble.
· Solvent content:	
Organic solvents:	0.0 %
VOC content:	0 g/l
· Solids content:	100.0 %

10 Stability and reactivity

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

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

13 Disposal considerations

- **Product:**
- **Recommendation:** Smaller quantities can be disposed of with household waste.

(Contd. on page 5)

USA

Material Safety Data Sheet
acc. to ISO/DIS 11014

Printing date 02/07/2008

Reviewed on 02/07/2008

Trade name: CMI-BK Contact Marking Black Ink

(Contd. of page 4)

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

14 Transport information

- **DOT regulations:**
- **Hazard class:** -
- **Label** D.O.T. NOT REGULATED

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

- **Maritime transport IMDG:**
- **IMDG Class:** -

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

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

15 Regulations

- **TSCA (Toxic Substances Control Act):**
All ingredients are listed or exempt.

8001-79-4	Castor oil
8001-22-7	Soybean Oil
1333-86-4	Carbon black
8030-76-0	lecethin f (kelcin)

- **Cancerogenity categories**

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

1333-86-4	Carbon black	2B	6.89%
-----------	--------------	----	-------

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

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

1333-86-4	Carbon black	A4	6.89%
-----------	--------------	----	-------

- **NIOSH (National Institute for Occupational Safety and Health)**

1333-86-4	Carbon black	Std 78-204, Guidelines 88-118	6.89%
-----------	--------------	-------------------------------	-------

- **State regulations**

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

1333-86-4	Carbon black	2,4 F5	6.89%
-----------	--------------	--------	-------

- **Minnesota Right To Know / Hazardous Substances**

1333-86-4	Carbon black	Codes: ANOR, Carcinogen	6.89%
-----------	--------------	-------------------------	-------

- **Product related hazard informations:**
Observe the general safety regulations when handling chemicals.

(Contd. on page 6)

USA

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 02/07/2008

Reviewed on 02/07/2008

Trade name: CMI-BK Contact Marking Black Ink

(Contd. of page 5)

The product is not subject to identification regulations according to directives on hazardous materials.

· National regulations:**· 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.

· 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: Reglement internationale concernent 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)

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)

USA