

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 02/16/2009

Reviewed on 02/16/2009

1 Identification of substance

- **Product details**
- **Trade name:** CMI-R Red Contact Marking Ink
- **Article number:** CMI-R-4, CMI-R-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.
- **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**

2425-85-6	1-(4-methyl-2-nitrophenylazo)-2-naphthol	13.13%
5468-75-7	Yellow AAOT Pigment 14	0.69%
112945-52-5	Amorphous Fumed Silica, Silicon Dioxide, Crystalline Free	0.34%
8001-22-7	Soybean Oil	11.14%
8001-79-4	Castor oil	62.61%

- **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:**
No hazards to be particularly mentioned.
- **Potential Chronic Health Effects** Irritation of skin or organs.
- **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)**



- **HMIS-ratings (scale 0 - 4)**
- | | | |
|------------|---|----------------|
| HEALTH | 1 | Health = 1 |
| FIRE | 1 | Fire = 1 |
| REACTIVITY | 0 | Reactivity = 0 |

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· *GHS label elements Void*

4 First aid measures

- **General information:** Involve doctor immediately.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **Information for doctor:**
- **The following symptoms may occur:**
 - Dizziness
 - Unconsciousness
 - Headache
 - Breathing difficulty
 - Thirst
 - Cramp
 - Gastric or intestinal disorders
 - Allergic reactions

5 Fire fighting measures

- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire fighting measures that suit the environment.
- **Special hazards caused by the material, its products of combustion or resulting gases:**
Nitrogen oxides (NO_x)
Carbon monoxide (CO)
- **Protective equipment:**
Wear fully protective suit.
Wear self-contained respiratory protective device.
- **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 clothing.
Ensure adequate ventilation
- **Measures for environmental protection:**
Prevent from spreading (e.g. by damming-in or oil barriers).
Keep contaminated washing water and dispose of appropriately.
- **Measures for cleaning/collecting:** Dispose of the collected material according to regulations.
- **Additional information:**
No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

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7 Handling and storage

- **Handling:**
- **Information for safe handling:**
Keep away from heat and direct sunlight.
Store in cool, dry place in tightly closed receptacles.
- **Information about protection against explosions and fires:**
Protect from heat.
Protect against electrostatic charges.
Prevent impact and friction.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool location.
Store only in the original receptacle.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**
Store in dry conditions.
Protect from humidity and water.

8 Exposure controls and personal protection

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

2425-85-6 1-(4-methyl-2-nitrophenylazo)-2-naphthol	
TLV	10 (nuisance dust) mg/m ³
5468-75-7 Yellow AAOT Pigment 14	
TLV	Short-term value: 10 as nuisance mg/m ³
112945-52-5 Amorphous Fumed Silica, Silicon Dioxide, Crystalline Free	
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 ventilation.
- **Protection of hands:** Neoprene gloves
- **Eye protection:** Not required.

9 Physical and chemical properties

- **General Information**

Form:	Fluid
Color:	Red
Odor:	Weak, characteristic

- **Change in condition**

Melting point/Melting range: Undetermined.

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Boiling point/Boiling range:	351°C (664°F)
· Flash point:	255°C (491°F)
· Ignition temperature:	450.0°C (842°F)
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Vapor pressure at 20°C (68°F):	1.0 hPa (1 mm Hg)
· Density at 20°C (68°F):	1.02 g/cm ³
· Solubility in / Miscibility with Water:	Insoluble.
· Solvent content:	
Organic solvents:	0.0 %
VOC content:	0 %
· 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:** Carbon monoxide and carbon dioxide

11 Toxicological information

- **Acute toxicity:**
 - **LD/LC50 values that are relevant for classification:**
- | | | |
|-----------------------------------------|------|-------------------|
| 5468-75-7 Yellow AAOT Pigment 14 | | |
| Oral | LD50 | >5000 mg/kg (rat) |
- **Primary irritant effect:**
 - **on the skin:** No irritant effect.
 - **on the eye:** No irritating effect.
 - **Sensitization:** No sensitizing effects known.

13 Disposal considerations

- **Product:**
- **Recommendation:** Hand over to hazardous waste disposers.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **DOT regulations:**
- **Hazard class:** -

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- 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
2425-85-6	1-(4-methyl-2-nitrophenylazo)-2-naphthol
8030-76-0	lecethin f (kelcin)
8001-22-7	Soybean Oil
112945-52-5	Amorphous Fumed Silica, Silicon Dioxide, Crystalline Free

- Cancerogenity categories

· IARC (International Agency for Research on Cancer)		
2425-85-6	1-(4-methyl-2-nitrophenylazo)-2-naphthol	3
		13.13%

- NTP (National Toxicology Program)

None of the ingredients is listed.

- Product related hazard informations:

Observe the general safety regulations when handling chemicals.

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)

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GHS: Globally Harmonized System of Classification and Labelling of Chemicals

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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