

# Safety Data Sheet

acc. to OSHA HCS

Printing date 12/18/2013

Reviewed on 12/18/2013

## 1 Identification

- **Product identifier**
- **Trade name:** 70900W EFI Water Soluable White Stencil Ink
- **Article number:** 70900W, 70998, 70923
- **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
- **Emergency telephone number:**  
Infotrac: USA 1 800 535 5053  
International 352-323-3500 Call Collect


## 2 Hazard(s) identification

- **Classification of the substance or mixture**  
The product is not classified according to the Globally Harmonized System (GHS).

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  - **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Not applicable.
  - **Information concerning particular hazards for human and environment:**  
The product does not have to be labeled 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

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  - **Label elements**
  - **Labelling according to EU guidelines:**  
Observe the general safety regulations when handling chemicals.  
The product is not subject to identification regulations according to directives on hazardous materials.
  - **Classification system:**
  - **NFPA ratings (scale 0 - 4)**
- 

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

Health = 1  
Fire = 1  
Reactivity = 0
- **Other hazards**
  - **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.

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





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### 3 Composition/information on ingredients

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

- **Hazardous components**

108-01-0	2-dimethylaminoethanol  C R34;  Xn R20/21/22 R10 <hr style="border-top: 1px dashed black;"/>  H226;  H314;  H302; H312; H332	0.3%
533-74-4	dazomet (ISO)  Xn R22;  Xi R36;  N R50/53  H302; H319	0.03%
13463-67-7	titanium dioxide	29.7%
29911-28-2	Dipropylene Glycol Monobutyl Ether	3.5%

- **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

### 4 First-aid measures

- **Description of first aid measures**
- **General information:**  
 Seek immediate medical advice.  
 No special measures required.
- **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.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**  
 Dizziness  
 Disorientation
- **Indication of any immediate medical attention and special treatment needed**  
 No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **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 arising from the substance or mixture**  
 Nitrogen oxides (NOx)  
 Carbon monoxide (CO)
- **Advice for firefighters**
- **Protective equipment:** No special measures required.
- **Additional information**  
 Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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Collect contaminated fire fighting water separately. It must not enter the sewage system.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of the collected material according to regulations.
- **Reference to other sections**  
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.

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Keep receptacles tightly sealed.  
No special measures required.
- **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 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:** None.
- **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:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **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.  
Avoid contact with the eyes and skin.
- **Breathing equipment:** Use suitable respiratory protective device in case of insufficient ventilation.
- **Protection of hands:** Neoprene gloves
- **Material of gloves:** Nitrile rubber, NBR
- **Eye protection:** Goggles recommended during refilling.

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· **Body protection:** Protective work clothing

## 9 Physical and chemical properties

· **Information on basic physical and chemical properties**· **General Information**· **Appearance:**

<b>Form:</b>	Fluid
<b>Color:</b>	White
<b>Odor:</b>	Alcohol-like

· **Change in condition**

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	100 °C (212 °F)

· **Flash point:** 110 °C (230 °F)· **Auto igniting:** Product is not selfigniting.· **Danger of explosion:** Product does not present an explosion hazard.· **Vapor pressure at 20 °C (68 °F):** 23 hPa (17 mm Hg)· **Density at 20 °C (68 °F):** 1.3371 g/cm<sup>3</sup> (11.158 lbs/gal)· **Solubility in / Miscibility with**

<b>Water:</b>	Easily soluble.
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· **Solvent content:**

<b>Organic solvents:</b>	3.7 %
<b>VOC content:</b>	3.7 %
	142.6 g/l / 1.19 lb/gl

<b>Solids content:</b>	48.2 %
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· **Other information** No further relevant information available.

## 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:** Carbon monoxide and carbon dioxide

## 11 Toxicological information

· **Information on toxicological effects**· **Acute toxicity:**· **LD/LC50 values that are relevant for classification:**

13463-67-7 titanium dioxide

Oral	LD50	>20000 mg/kg (rat)
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Dermal	LD50	>10000 mg/kg (rabbit)
Inhalative	LC50/4 h	>6.82 mg/l (rat)
<b>108-01-0 2-dimethylaminoethanol</b>		
Oral	LD50	2000 mg/kg (rat)
Dermal	LD50	1370 mg/kg (rabbit)
Inhalative	LC50/4 h	3.25 mg/l (mouse)
<b>29911-28-2 Dipropylene Glycol Monobutyl Ether</b>		
Oral	LD50	3700 mg/kg (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 is not subject to classification according to internally approved calculation methods for preparations.  
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.

- **Carcinogenic categories**

· <b>IARC (International Agency for Research on Cancer)</b>			
13463-67-7	titanium dioxide	2B	29,7%
7631-86-9	silicon dioxide, chemically prepared	3	1,98%
141-32-2	n-butyl acrylate	3	0,0003%
100-42-5	styrene	2B	0,0003%

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

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

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

## 14 Transport information

· <b>UN-Number</b>	Void
· <b>DOT, ADR, ADN, IMDG, IATA</b>	Void
· <b>UN proper shipping name</b>	Void
· <b>DOT, ADR, ADN, IMDG, IATA</b>	Void
· <b>Transport hazard class(es)</b>	Void
· <b>DOT, ADR, ADN, IMDG, IATA</b>	Void
· <b>Class</b>	Void
· <b>Packing group</b>	Void
· <b>DOT, ADR, IMDG, IATA</b>	Void
· <b>Environmental hazards:</b>	Not applicable.
· <b>Special precautions for user</b>	Not applicable.
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>UN "Model Regulation":</b>	-

## 15 Regulatory information

· <b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>		
· <b>Sara</b>		
· <b>Section 313 (Specific toxic chemical listings):</b>		
533-74-4	dazomet (ISO)	0,03%
141-32-2	n-butyl acrylate	0,0003%
100-42-5	styrene	0,0003%
· <b>SARA Title III Section 311/312 - Hazard Communication Standard (40 CFR 370)</b>		
13463-67-7	titanium dioxide	29,7%
108-01-0	2-dimethylaminoethanol	0,3%
533-74-4	dazomet (ISO)	0,03%
100-42-5	styrene	0,0003%
· <b>RCRA: Resource Conservation and Recovery Act / Code</b>		
533-74-4	dazomet (ISO)	U366 0,03%
· <b>TSCA (Toxic Substances Control Act):</b> All ingredients are listed or exempt.		
7732-18-5	water, distilled, conductivity or of similar purity	
13463-67-7	titanium dioxide	
990001-16-3	polymer	
29911-28-2	Dipropylene Glycol Monobutyl Ether	
7631-86-9	silicon dioxide, chemically prepared	

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21645-51-2	aluminium hydroxide
108-01-0	2-dimethylaminoethanol
533-74-4	dazomet (ISO)
141-32-2	n-butyl acrylate
100-42-5	styrene

· **US EPA TSCA Section 12(b): This product may contain trace amounts of substances for which Export Notification is required**

t-Butylcatechol (CAS # 98-29-3)

p-Methoxyphenol (CAS # 150-76-5)

· **Clean Air Act- Hazardous Air Pollutants**

108-01-0	2-dimethylaminoethanol	SOCMI	0,3%
100-42-5	styrene	SOCMI XOVI	0,0003%

· **Clean Water Act: Section 311(b)(2)(A) & Priority Pollutants**

100-42-5	styrene	RQ: 1000 lbs	0,0003%
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· **ACGIH Carcinogen**

13463-67-7	titanium dioxide	A4	29,7%
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· **Cancerogenity categories**

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

13463-67-7	titanium dioxide	A4	29,7%
141-32-2	n-butyl acrylate	A4	0,0003%
100-42-5	styrene	A4	0,0003%

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

13463-67-7	titanium dioxide	*	29,7%
100-42-5	styrene	Standard: 83-119, Guidelines 81-123	0,0003%

· **CERCLA- SARA Title III: 40 CFR Part 302, Table 302.4**

533-74-4	dazomet (ISO)	## pounds	0,03%
100-42-5	styrene	RQ: 1000 lbs	0,0003%

· **State regulations**

· **New Jersey Right-to-know**

533-74-4	dazomet (ISO)	DOT: 2588 Sub NO>: 3664	0,03%
100-42-5	styrene	DOT: 2055, Sub No: 1748	0,0003%

· **Massachusetts Right-to-know / Hazardous Substance Codes**

13463-67-7	titanium dioxide	4	29,7%
7631-86-9	silicon dioxide, chemically prepared	2,4,5 F5	1,98%
108-01-0	2-dimethylaminoethanol	6	0,3%
100-42-5	styrene	1,2,4,5,6,9 *E*C* F7 F8	0,0003%

· **Florida Hazardous / Toxic Substance Lists**

7631-86-9	silicon dioxide, chemically prepared	Toxic	1,98%
108-01-0	2-dimethylaminoethanol	Toxic	0,3%

· **Pennsylvania Hazardous Substances**

13463-67-7	titanium dioxide	Listed	29,7%
7631-86-9	silicon dioxide, chemically prepared	Listed	1,98%
108-01-0	2-dimethylaminoethanol	--	0,3%

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100-42-5	styrene	E	0,0003%
· <b>Michigan Hazardous Substance</b>			
100-42-5	styrene	--	0,0003%
· <b>Pennsylvania Non-hazardous present at 3% or greater (PA3)</b>			
100-42-5	styrene		0,0003%
· <b>Minnesota Right To Know / Hazardous Substances</b>			
13463-67-7	titanium dioxide	A	29,7%
7631-86-9	silicon dioxide, chemically prepared	Codes ANOR, Carcinogen	1,98%
100-42-5	styrene	ANO	0,0003%
· <b>Michigan Critical Material List</b>			
100-42-5	styrene	--	0,0003%
· <b>New York Right To Know / Hazardous Substances</b>			
100-42-5	styrene	RQ Air: 1000, RQ Land 1	0,0003%
· <b>Illinois Right To Know</b>			
533-74-4	dazomet (ISO)		S6
100-42-5	styrene		S5

· **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.

· **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**

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

R10 Flammable.

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R22 Harmful if swallowed.

R34 Causes burns.

R36 Irritating to eyes.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· **Contact:** Mike Rickert

· **Abbreviations and acronyms:**

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

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

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*ICAO: International Civil Aviation Organization**ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)**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**EINECS: European Inventory of Existing Commercial Chemical Substances**ELINCS: European List of Notified Chemical Substances**CAS: Chemical Abstracts Service (division of the American Chemical Society)**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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