

# Material Safety Data Sheet

acc. to ISO/DIS 11014

04/27/2011

Revision date: 04/27/2011

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

- **Product identifier**
- **Trade name: #I150 Black**
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation** Printing inks
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Universal Stenciling & Marking Systems PO Box 871  
St. Petersburg, FL, 33731
- 727-894-3027
- **Information Department:** sales@Universal-Marking.com
- **Emergency telephone number:**  
Contact Chemtrec: (800) 424 9300

## 2 Composition/information on ingredients


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

- **Dangerous components:**

111-46-6	Diethylene glycol	40-100%
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- **Additional information** For the wording of the listed risk phrases refer to section 16.

## 3 Hazards identification

- **Classification of the substance or mixture**
  - **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
  -  **Harmful**  
Harmful if swallowed.
  - **Information concerning particular hazards for human and environment:**  
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
  - **Classification system:**  
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
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- **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:**  
Harmful
  - **Hazard-determining components of labelling:**  
Diethylene glycol
  - **Risk phrases:**  
Harmful if swallowed.
  - **Safety phrases:**  
Keep out of the reach of children.  
Keep away from food, drink and animal feedingstuffs.  
Do not breathe gas/fumes/vapour/spray.  
Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point

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Wear suitable protective clothing.

If swallowed, seek medical advice immediately and show this container or label.

- **Classification system**
- **NFPA Ratings (scale 0-4)**



Health = 2  
Fire = 1  
Reactivity = 0

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



Health - 2  
Flammability - 1  
Reactivity - 0

- **Routes of Entry**

Ingestion

Inhalation

- **Target Organs** None known
- **Irritancy** Respiratory Tract
- **Sensitizing Capability** None known
- **Reproductive Effects** None known
- **Cancer Information** Not known to be carcinogenic.
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

## 4 First aid measures

- **Description of first aid measures**
- **General information**  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation** Supply fresh air; consult doctor in case of complaints.
- **After skin contact** Generally the product does not irritate the skin.
- **After eye contact** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing**  
If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label

## 5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents** Use fire fighting measures that suit the environment.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:**  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
Dilute with plenty of water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.

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- Ensure adequate ventilation.
- **Reference to other sections**  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## 7 Handling and storage

- **Handling**
- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.  
Wash hands thoroughly after handling.
- **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:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Maximum storage temperature:** 120 F (49 C)
- **Minimum storage temperature:** 35 F (2 C)

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

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

<b>111-46-6 Diethylene glycol</b>
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WEEL 10 mg/m <sup>3</sup>
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- **Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**  
Keep away from foodstuffs, beverages and feed.  
Wash hands before breaks and at the end of work.
- **Breathing equipment:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**



Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**  
Butyl rubber, BR  
Nitrile rubber, NBR  
Natural rubber, NR  
Neoprene gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Not suitable are gloves made of the following materials:** Leather gloves
- **Eye protection:** Goggles recommended during refilling.

## 9 Physical and chemical properties

### · Information on basic physical and chemical properties

#### · General Information

#### · Appearance:

Form:	Liquid
Color:	According to product specification
Odor:	Characteristic

· **pH-value at 20°C (68°F):** 7

#### · Change in condition

Melting point/Melting range: undetermined  
Boiling point/Boiling range: 245°C (473°F)

· **Flash point:** 146°C (295°F)

· **Ignition temperature:** 225°C (437°F)

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

#### · Explosion limits:

Lower:	0.7 Vol %
Upper:	22.0 Vol %

· **Vapor pressure at 20°C (68°F):** 0 hPa

· **Density at 20°C (68°F):** 1.1334 g/cm<sup>3</sup> (9.458 lbs/gal)

#### · Solubility in / Miscibility with

Water: Fully miscible

#### · Solvent content:

Organic solvents: 94.6 %

Solids content: 5.4 %

## 10 Stability and reactivity

### · Reactivity

#### · Chemical stability

#### · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

#### · Possibility of hazardous reactions

No dangerous reactions known

#### · Hazardous decomposition products:

No dangerous decomposition products known

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## 11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

### 111-46-6 Diethylene glycol

Oral	LD50	12565 mg/kg (rat)
Dermal	LD50	11890 mg/kg (rbt)

- **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

## 12 Ecological information

- **Toxicity**

- **Acquatic toxicity:** No further relevant information available.

- **Additional ecological information:**

- **General notes:**

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

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

## 13 Disposal considerations

- **Waste treatment methods**

- **Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Comply with all Federal, State, and Local regulations regarding disposal.

- **Uncleaned packagings:**

- **Recommendation:**

Disposal must be made according to official regulations.

Comply with all Federal, State, and Local regulations regarding disposal.

- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14 Transport information

- **DOT regulations:**

- **Hazard class:** -

Non-regulated Material

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

- **ADR/RID class:** -

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- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Marine pollutant:** No
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -
- **Special precautions for user** Not applicable.

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Carcinogenity categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

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

7647-01-0 | hydrogen chloride

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· **NTP (National Toxicology Program)**

None of the ingredients is listed.

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

7647-01-0 | hydrogen chloride

A4

· **MAK (German Maximum Workplace Concentration)**

None of the ingredients is listed.

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

All ingredients are listed

· **OSHA-Ca (Occupational Safety & Health Administration)**

All ingredients are listed.

· **Product related hazard information:**

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

· **Hazard symbols:**

Harmful

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

Diethylene glycol

· **Risk phrases:**

Harmful if swallowed.

· **Safety phrases:**

Keep out of the reach of children.

Keep away from food, drink and animal feedingstuffs.

Do not breathe gas/fumes/vapour/spray.

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point

Wear suitable protective clothing.

If swallowed, seek medical advice immediately and show this container or label.

· **National regulations**

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

· **Other regulations, limitations and prohibitive regulations**

· **OSHA Regulations**

Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): Not listed

OSHA Specifically Regulated Substance (29 CFR 1910.): Not listed

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· **Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III, Section 313:**

*This product does not contain chemicals listed as toxic chemicals at levels which require reporting under SARA Title III Section 313.*

· **CONEG:**

*This product meets CONEG and RoHS legislation for low levels of Lead, Cadmium, Mercury, Hexavalent Chrome, and Brominated flame retardants.  
Red and Green Only:*

· **Toxic Substances Control Act TSCA Status:**

*All components of this product are listed in the EPA's Inventory of Chemical Substances as required under the Toxic Substances Control Act (TSCA).*

· **California Proposition 65 (Chemicals known to cause cancer):**

*This product contains no ingredients on the California Proposition 65 List known to cause cancer.*

· **California Proposition 65 (Chemicals known to cause reproductive toxicity):**

*This product contains no ingredients on the California Proposition 65 known to cause reproductive toxicity.*

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

· **MSDS Created By:** Jacqueline Cullum

· **File:** 327

· **Revision Information (All previous revisions obsolete):** 3/28/2008 New SDS Created

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