

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

- **Product identifier**
- **Trade name: ITW 1100**
- **Application of the substance / the preparation** Printing inks
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
ITW Inks
1 Missouri Research Park Drive
St. Charles, MO 63304-5685
- **Customer Sales & Service:**
877-342-4727 USA
636-300-2005 FAX
- **Information Department:** Email: info@itw-ink.com
- **Emergency telephone number:**
Contact Infotrac: (800) 535 5053 (US only)
International: +1 352 323 3500

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	5-20%
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- **SVHC**

This ink contains no SVHC's listed in Annex XV at the time of the revision of the MSDS listed in Section 16.

- **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** not applicable
 - **Information concerning particular hazards for human and environment:**
The product does not have 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:**
Observe the general safety regulations when handling chemicals
The product is not subject to identification regulations according to directives on hazardous materials.
 - **Safety phrases:**
Do not empty into drains.
 - **Classification system**
 - **NFPA Ratings (scale 0-4)**



Health = 1
Fire = 1
Reactivity = 0

(Contd. on page 2)

Material Safety Data Sheet

acc. to ISO/DIS 11014

02/09/2012

Revision date: 02/09/2012

Trade name: **ITW 1100**

(Contd. of page 1)

· **HMIS Rating (scale 0-4)**

HEALTH	1	Health - 1
FIRE	1	Flammability - 1
REACTIVITY	0	Reactivity - 0

- **Routes of Entry Ingestion**
- **Target Organs** None known
- **Irritancy** None known
- **Sensitizing Capability** None known
- **Reproductive Effects** None known
- **Cancer Information** Not known to be carcinogenic.

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.
- **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

- **Suitable extinguishing agents** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **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.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Reference to other sections** No dangerous substances are released.

7 Handling and storage

- **Handling**
- **Precautions for safe handling**
Wear chemical resistant goggles and gloves when handling.
Wash hands thoroughly after handling.
- **Information about protection against explosions and fires:** No special measures required.
- **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)

(Contd. on page 3)

USA

Material Safety Data Sheet

acc. to ISO/DIS 11014

02/09/2012

Revision date: 02/09/2012

Trade name: **ITW 1100**

(Contd. of page 2)

· **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

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

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

111-46-6 Diethylene glycol

WEEL | 10 mg/m³

· **Personal protective equipment**

· **General protective and hygienic measures**

The usual precautionary measures for handling chemicals should be followed.

· **Breathing equipment:** Not required.

· **Protection of hands:**



Protective gloves.

· **Material of gloves**

Butyl rubber, BR

Nitrile rubber, NBR

Natural rubber, NR

PVA gloves

Neoprene gloves

· **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

PVC gloves

· **Eye protection:** Goggles recommended during refilling.

9 Physical and chemical properties

· **General Information**

· **Appearance:**

Form: Liquid

Color: Black

· **Odor:** Characteristic

· **Change in condition**

Melting point/Melting range: undetermined

Boiling point/Boiling range: 100°C (212 °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):** 23 hPa (17 mm Hg)

· **Density at 20°C (68 °F):** 1.014 g/cm³ (8.462 lbs/gal)

(Contd. on page 4)

-USA-

Material Safety Data Sheet

acc. to ISO/DIS 11014

02/09/2012

Revision date: 02/09/2012

Trade name: ITW 1100

(Contd. of page 3)

· Solubility in / Miscibility with Water:	Not miscible or difficult to mix
· Solvent content:	
Organic solvents:	14 %
Water:	83 %
· Solids content:	3 %
· Other information	No further relevant information available.

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known

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:**
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.

12 Ecological information

- **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.
- **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.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation** Comply with all Federal, State, and Local regulations regarding disposal.
- **Uncleaned packagings:**
- **Recommendation:**
Disposal must be made according to official regulations.

(Contd. on page 5)

USA

Material Safety Data Sheet

acc. to ISO/DIS 11014

02/09/2012

Revision date: 02/09/2012

Trade name: ITW 1100

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

(Contd. of page 4)

14 Transport information

<ul style="list-style-type: none"> · UN-Number · DOT, ADR, ADN, IMDG, IATA 	Void
<ul style="list-style-type: none"> · UN proper shipping name · DOT, ADR, ADN, IMDG, IATA 	Void
<ul style="list-style-type: none"> · Transport hazard class(es) · DOT · Class 	Void Non-regulated Material
<ul style="list-style-type: none"> · ADR, ADN, IMDG, IATA · Class 	Void
<ul style="list-style-type: none"> · Packing group · DOT, ADR, IMDG, IATA 	Void
<ul style="list-style-type: none"> · Environmental hazards: · Marine pollutant: 	No
<ul style="list-style-type: none"> · Special precautions for user 	Not applicable.
<ul style="list-style-type: none"> · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	Not applicable.

15 Regulatory information

<ul style="list-style-type: none"> · Carcinogenity categories 	<ul style="list-style-type: none"> · EPA (Environmental Protection Agency)
	None of the ingredients is listed.
	<ul style="list-style-type: none"> · IARC (International Agency for Research on Cancer)
	None of the ingredients is listed.
	<ul style="list-style-type: none"> · NTP (National Toxicology Program)
	None of the ingredients is listed.
	<ul style="list-style-type: none"> · TLV (Threshold Limit Value established by ACGIH)
	None of the ingredients is listed.
	<ul style="list-style-type: none"> · MAK (German Maximum Workplace Concentration)
	None of the ingredients is listed.
	<ul style="list-style-type: none"> · NIOSH-Ca (National Institute for Occupational Safety and Health)
	All ingredients are listed
	<ul style="list-style-type: none"> · OSHA-Ca (Occupational Safety & Health Administration)
	All ingredients are listed.
<ul style="list-style-type: none"> · Product related hazard information: 	<ul style="list-style-type: none"> Observe the general safety regulations when handling chemicals The product is not subject to identification regulations according to directives on hazardous materials.
<ul style="list-style-type: none"> · Safety phrases: 	Do not empty into drains.

(Contd. on page 6)

Material Safety Data Sheet

acc. to ISO/DIS 11014

02/09/2012

Revision date: 02/09/2012

Trade name: ITW 1100

(Contd. of page 5)

- **National regulations**

- **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

- **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 has not been tested for heavy metals covered under the various CONEG laws. However, raw materials used to make this product do not contain mercury, lead, cadmium, or hexavalent chromium and none are added during manufacture.

- **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.

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:** Peter Gimse

- **File:** 3

- **Revision Information (All previous revisions obsolete):**

02-09-2012 Update for SVHC information.

Initial Release: 08/06/2008 New Manufacturer

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