

# Safety Data Sheet

Report Date 8/23/2022

Last Edit 5/18/2022

## Section 1 - Product Information

Interactive Inks & Coatings  
1610 Shanahan Drive  
South Elgin, IL 60177

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**Product Id #** OPDI-133  
**Trade Name** Over Print  
**Product Class** Waterbased Printing Ink / Ink Additive  
**Product Description** Direct Indirect Thermal

### HMIS Rating

Health 1

Flammability 1

Reactivity 0

Personal Protection B

## Section 2 - Hazardous Identification



**Signal Word** Warning

Acute-Hazardous to the Aquatic Environment - Category 2

Eye Damage/Irritation - Category 2B

Skin Corrosion/Irritation - Category 3

Toxic to Reproduction - Category 2

Causes mild skin irritation.

Causes eye irritation.

Suspected of damaging fertility or the unborn child.

Toxic to aquatic life.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. If exposed or concerned: Get medical advice/attention. If skin Irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash effected areas thoroughly after handling. Avoid release to the environment. Wear protective gloves and eye protection. Store in a closed container. Store locked up. Dispose of contents/container in accordance with local regulations.

## Section 3 - Composition/Information on Ingredients

Chemical Name	CAS #	%	PEL	TLV
water	7732-18-5	5.45 %	N/A	N/A
Styrene Acrylic Copolymer	Proprietary	82.48 %	N/A	N/A
Modifiers	Proprietary	3.63 %	n/a	n/a

## Section 4 - First aid measures

### 4.1: Description of first aid measures.

Remove all clothing that has been soiled by the product. When in doubt, or if symptoms persist, seek medical attention.

### 4.2: After inhalation

Remove yourself to fresh air if you feel unwell. Keep person warm and at rest. If breathing is irregular or respiratory arrest occurs, involve a doctor immediately.

### 4.3: After Skin Contact

Remove contaminated clothing. Wash skin with mild soap and water.

### 4.4: After Eye Contact

Remove any contact lenses. Flush eyes with running water for minimum 15 minutes. Involve a doctor.

### 4.5: After Swallowing

Call a doctor immediately. Rinse out mouth with fresh water.

## Section 5 - Fire Fighting Measures

### 5.1: Suitable extinguishing agents:

Water spray, dry powder, foam.

### 5.2: For safety reasons unsuitable extinguishing agents:

None Known

### 5.3: Advice for fire fighters protective equipment

Wear self-contained respiratory protective device. Wear fully protective suit.

## Section 6 - Accidental Release Measures

### 6.1: Personal Precautions, protective equipment and emergency procedures.

Ensure adequate ventilation. See section (8) of this document for additional information on personal protective equipment.

### 6.2: Environmental precautions

Avoid discharge into sewers, drains, spillways or soil.

### 6.3: Methods and material for containment and cleaning up

Clean with soap and water. Discard all waste in accordance with approved regulatory procedures.

## Section 7 - Handling and storage

### 7.1: Precautions for safe handling.

Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.

### 7.2: Information about protection against explosions and fires

Keep ignition sources away. Protect from heat. Avoid smoking while handling this product.

### 7.3: Conditions for safe storage

Store in a cool, well ventilated area. Keep container tightly closed until ready for use. Do not store in unlabeled containers. Do not eat, drink or smoke while handling this product. Wash hands and face before eating, drinking, or smoking.

## Section 8 - Personal Protection

### 8.1: Personal Protective and Hygienic measures

The usual precautionary measure for handling chemicals should be followed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work

### 8.2 Breathing equipment

If risk assessment determines it necessary, wear an approved respiratory device suitable for organic vapors.

### 8.3 Protection of hands

Wear protective gloves suitable for skin protection

### 8.4 Eye protection

Protective eye wear or face shield

**Section 9 - Physical and chemical properties.**

**9.1: General Properties.**

Physical Form: Liquid  
Color: See description  
Odor: Amine Odor  
Boiling point 212 Deg. F  
Melt Point: N/A  
Freeze Point: 32 Deg. F  
pH: 8-11  
Solubility in water: Miscible liquid.  
Vapor Pressure / Density- Equiv to water.

**Section 10 - Stability and Reactivity**

**10.1: Stability and Reactivity**

Stable

**10.2: Incompatible materials**

Avoid strong oxidizing agents

**Section 11 - Toxicological Information**

The toxicological information below is listed from the individual raw ingredients in this mixture. They are not representative of the mixture as a whole. This mixture has not been tested for toxicological effects.

Information on toxicological effects

- Acute toxicity:
- LD/LC50 values that are relevant for classification:

LD50 oral > 5000 mg/kg (rat)

Remark: results of a similiar mixture

- Primary irritant effect:
- on the skin: possible after prolonged contact
- on the eye: possible after prolonged contact
- 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
- IARC (International Agency for Research on Cancer)  
None of the ingredients is listed.
- NTP (National Toxicology Program)  
None of the ingredients is listed.
- OSHA-Ca (Occupational Safety & Health Administration)  
None of the ingredients is listed.

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Acute toxicity

Oral:

Type of value: LD50

Species: rat

Value: > 5,000 mg/kg

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Inhalation:

Type of value: LC50

Species: rat

Exposure time: 4 h

not determined

Dermal:

Type of value: LD50

Species: rat

not determined

Irritation / corrosion

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Skin:  
Species: rabbit  
Result: non-irritant  
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Acute toxicity : No data developed.  
Skin corrosion/irritation : No data developed. None expected.  
Serious eye damage/irritation : No data developed. Treat as nuisance dust.  
Respiratory or skin sensitization : No data developed. Treat as nuisance dust.  
Germ cell mutagenicity : No data developed.  
Carcinogenicity : N.T.P. CARCINOGEN: No I.A.R.C. CARCINOGEN: No  
Reproductive toxicity : No.  
STOST-single exposure : No data developed. Treat as nuisance dust.  
STOST-repeated exposure : No data developed. Treat as nuisance dust.  
Aspiration hazard : No data developed. Aspiration is possible.

OTHER DATA:

MEDICAL CONDITIONS GENERALLY AGGREGATED BY EXPOSURE: May irritate people with skin problems, asthma and lung diseases. Susceptible individuals may have an allergic reaction  
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Information on likely routes of exposure

Inhalation:  
If handled correctly, not a relevant route of exposure. Information on effects are given below.  
Skin Contact:  
Relevant route of exposure. Information on effects are given below.  
Eye contact:  
Relevant route of exposure. Information on effects are given below.

Ingestion:  
If handled correctly, not a relevant route of exposure. Information on effects are given below.  
Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:  
No data available.  
Skin Contact:  
No data available.  
Eye contact:  
No data available.  
Ingestion:  
No data available.

Version: 1.0  
Revision Date: 03/15/2019  
6/10  
US 2019-06-12

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product:  
no data available  
Acute toxicity estimate : > 5,000 mg/kg  
Dermal

Product:

no data available  
Inhalation  
Product:  
no data available  
Repeated dose toxicity

Product:

no data available  
Skin Corrosion/Irritation  
Product:  
no data available  
Serious Eye Damage/Eye Irritation

Product:

no data available  
Respiratory or Skin Sensitization

Product:

no data available

Carcinogenicity

Product:

No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

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No carcinogens present or none present in regulated quantities  
US. National Toxicology Program (NTP) Report on Carcinogens:  
No carcinogens present or none present in regulated quantities  
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):  
No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

In vitro

Product:

No data available.

Components:

Octamethylcyclotetrasiloxane

gene mutation (OECD 471): negative

gene mutation (OECD 476): negative

Chromosomal aberration (OECD 473): negative

In vivo

Product:

No data available.

Components:

Octamethylcyclotetrasiloxane

Micronucleus test (OECD 474) inhalative (Rat): negative

Chromosomal aberration (OECD TG 478) Oral (Rat): negative

Reproductive toxicity

Product:

No data available.

Specific Target Organ Toxicity - Single Exposure

Version: 1.0

Revision Date: 03/15/2019

7/10

US 2019-06-12

Product:

no data available

Specific Target Organ Toxicity - Repeated Exposure

Product:

no data available

Aspiration Hazard

Product:

Not classified

Other effects:

Causes serious eye irritation.

Proprietary Amine Blend:

Acute Toxicity:

Oral: LD50: 1182 mg/kg (rat)

Skin: LD50: >3000 mg/kg (rabbit)

LC50 (Inhalation: 1641 ppm (rat, 4 hours)

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Take note of Directive 94/33/EC on the protection of young people at work

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

For the worker Inhalation Systemic effects - Long-term 1.76 mg/m<sup>3</sup>

Inhalation Systemic effects - Short-term 5.28 mg/m<sup>3</sup>

Dermal Systemic effects - Long-term 0.5 mg/kg bw/day

Dermal Systemic effects - Short-term 1.5 mg/kg bw/day

For the general population Inhalation Systemic effects - Long-term 0.43 mg/m<sup>3</sup>

Inhalation Systemic effects - Short-term 1.29 mg/m<sup>3</sup>

Dermal Systemic effects - Long-term 0.25 mg/kg bw/day

Dermal Systemic effects - Short-term 0.75 mg/kg bw/day

Oral Systemic effects - Long-term 0.25 mg/kg bw/day

Oral Systemic effects - Short-term 0.75 mg/kg bw/day

Toxicity

Fish 96h LC50 = 42 mg/L.

Aquatic invertebrates 48h LC50 = 166 mg/L.

Aquatic algae and cyanobacteria 72h LC50 = 15 mg/L.

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Germ cell mutagenicity  
Propylene glycol: negative  
Carcinogenicity  
No information available.  
Reproductive toxicity  
No information available.  
STOT - single exposure  
No information available.  
STOT - repeated exposure  
No information available.  
Aspiration hazard  
No information available.

Information on toxicological effects  
Acute toxicity  
LD50 dermal rabbit: >500 mg/kg  
Skin corrosion/irritation  
May cause skin irritation in susceptible persons.  
Serious eye damage/eye irritation  
Causes serious eye damage.  
Sensitization  
Not sensitising.

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Section 11. Toxicological information  
Acute toxicity  
Propylene glycol - LD50 Dermal Rabbit 21000 mg/kg  
LD50 Oral Rat 22000 to 31000  
mg/kg  
Product/ingredient name Test Endpoint Species Result  
Information on toxicological effects  
Irritation/Corrosion  
Sensitization  
Route of exposure Species Result  
Propylene glycol - skin Guinea pig Not sensitizing  
Product/ingredient name Test  
Mutagenicity  
Carcinogenicity  
Reproductive toxicity  
Teratogenicity  
Propylene glycol - Rat Negative - Oral  
Product/ingredient name Test Species Result/Result type  
Specific target organ toxicity (single exposure)  
Not available.  
Specific target organ toxicity (repeated exposure)  
Not available.  
Aspiration hazard  
Not available.  
Information on the likely  
routes of exposure  
: Not available.  
: No known significant effects or critical hazards.  
Potential acute health effects  
Eye contact  
Not available.  
Not available.  
Not available.  
Not available.  
11/11/2014. 00085361 6/11  
PROPYLENE GLYCOL (COMMERCIAL)  
Section 11. Toxicological information  
: No known significant effects or critical hazards.  
: No known significant effects or critical hazards.  
: No known significant effects or critical hazards.  
Inhalation  
Ingestion  
Skin contact  
Numerical measures of toxicity  
Not available.

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Acute toxicity estimates  
Other information : Not available.  
Potential chronic health effects  
General : No known significant effects or critical hazards.  
Carcinogenicity : No known significant effects or critical hazards.  
Mutagenicity : No known significant effects or critical hazards.  
Teratogenicity : No known significant effects or critical hazards.  
Developmental effects  
: No known significant effects or critical hazards.  
Fertility effects : No known significant effects or critical hazards.  
Symptoms related to the physical, chemical and toxicological characteristics  
Skin contact  
Ingestion  
Inhalation No specific data.  
No specific data.  
No specific data.  
:  
:  
:  
:  
Eye contact : No specific data.  
Delayed and immediate effects and also chronic effects from short and long term exposure  
Potential immediate effects  
: Not available.  
Short term exposure  
Potential delayed effects  
: Not available.  
Potential immediate effects  
: Not available.  
Long term exposure  
Potential delayed effects  
: Not available.

## Section 12 - Ecological Information

### 12.1: Ecological Information

Possible color nuisance

## Section 13 - Disposal

### 13.1: Disposal

Dispose of all waste in accordance with all applicable federal, state and local regulations. Do not flush into public sewer or water systems.

## Section 14 - Transportation Information

### 14.1: Transportation Information

ADR/RID Class - Not registered

ADNR Class - Not registered

IMDG Class - Not registered

IATA Class - Not registered

## Section 15 - Regulatory Substances

### R100 - Section 355 (Extremely hazardous Substances):

To the best of our knowledge, this product does not contain any products listed in reportable Levels.

### R101 - Section 313 (Specific toxic chemical listings)

To the best of our knowledge, this product does not contain any products listed in reportable Levels.

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**R102 - TSCA (Toxic Substances Control Act)**

Chemical components of our water-based products are listed or have been registered for inclusion on the section 8(B) Chemical Substance Inventory List (40 DFR 372)

**R103 - Proposition 65: Chemicals Known to cause Cancer**

2-ethylhexyl acrylate, CAS# 103-11-7, &lt;100ppm  
formaldehyde CAS#50-00-0 &lt;0.09%&#x0D;styrene CAS#100-42-5 &lt;0.09%&#x0D;2-ethylhexyl acrylate CAS# 103-11-7 &lt;0.005%

**R104 - Proposition 65: Chemicals known to cause reproductive harm**

To the best of our knowledge, this product does not contain any products listed in reportable Levels.

**R105 - REACH: (SVHC) Substances of Very High Concern:**

alpha-(4-(1,1,3,3-Tetramethylbutyl)phenyl)-omega-hydroxypoly(oxy-1,2-ethanediyl), CAS # 9002-93-1 &lt;0.05%  
CAS# 108-01-0

**Section 16 - Other Information**

**16.1: Regulatory Statements**

EICC (Country of Origin) and (ROHS).

Interactive Inks and Coatings certifies that heavy metals (defined as Cadmium, Lead, mercury, and hexavalent-chromium) as well as (polybrominated biphenyles and polybrominated biphenyl ethers) are not intentionally introduced into our products and trace level impurities will not exceed the maximum concentration levels of 100 PPM (total) in packaging and/or packaging components. With regards to the use of the "Conflict Minerals" listed in the Dodd-Frank Wall Street Reform and Consumer Protection Act; Tantalum (Ta), Tin (Sn), Gold (AU), and Tungsten (W) are not intentionally introduced in the manufacturing of any of Interactive Inks and Coatings products. Interactive Inks and Coatings does not maintain any business relationship, as it pertains to the production of printing ink, with the Smelter industry.

Based on information obtained from our suppliers and to the best of our knowledge, Materials used in the manufacturing of our water-based products are not in-themselves nor are any external additions made of DMF (dimethyl fumarate), asbestos, Phthalates, fluorocarbons, chlorinated poly nuclear aromatics, BHT (butylated hydroxy toluene), bovine or animal by products, nor are there any materials used which are derived from old growth or rain forest timber. Further our products do not contain reportable levels of any ozone depleting chemicals or HAPS. Compliant with the European Union ROHS (Restricted Hazardous Substances) Directive 2002/95/EC.

**16.2 Other Information**

The data are based on the current state of our knowledge, and are intended to describe the product with regard to the requirements of safety. The data should not be taken to imply any guarantee of a particular or general specification. It is the responsibility of the user of the product to ensure to his satisfaction that the product is suitable for the intended purpose and method to use. We do not accept responsibility for any harm caused by the use of this information. Furthermore nothing contained herein shall be construed as recommendation to use any product in conflict with existing patents covering any material or its use. In all cases, our general conditions of sale apply.

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