1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier
Product code 9542
Product name RFU Yellow 2G
Product category 9500 Series AquaPrint™ II Ready For Use Screen Ink

Other means of identification
Synonyms None

Recommended use of the chemical and restrictions on use
Recommended use Printing operations

Details of the supplier of the safety data sheet
UNITED STATES NAZDAR COMPANY
Nazdar Company
8501 Hedge Lane Terrace
Shawnee, KS 66227
Tel: 1-913-422-1888
Tel: 1-800-677-4657
Fax: 1-913-422-2294

UNITED KINGDOM NAZDAR LIMITED
Barton Road
Heaton Mersey
Stockport, England SK4 3EG
Tel: +44 161 442 2111

Emergency telephone number
USA: Chemtrec: 1-800-424-9300
Outside USA: Chemtrec: 1-703-527-3887
24 Hour Emergency Phone Number

2. HAZARDS IDENTIFICATION

Classification
Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements
Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Signal Word
None

Hazards not otherwise classified (HNOC)
No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>Trade Secret</th>
<th>Note</th>
</tr>
</thead>
</table>


1.2-Propylene glycol  57-55-6  1 - 5  *
Nonylphenol ethoxylate  9016-45-9  < 0.5  *

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

General Advice
Show this safety data sheet to the doctor in attendance.

Eye Contact
Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention if irritation develops and persists.

Skin Contact
Wash off immediately with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. If irritation (redness, rash, blistering) develops, get medical attention.

Inhalation
Remove person to fresh air and keep comfortable for breathing. If breathing is irregular or stopped, administer artificial respiration. Get medical attention immediately.

Ingestion
DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

Most important symptoms and effects, both acute and delayed
None under normal use conditions.

Indication of any immediate medical attention and special treatment needed
Notes to Physician
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Foam. Carbon dioxide (CO2). Dry chemical. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media
No information available.

Specific Hazards Arising from the Chemical
Thermal decomposition can lead to release of irritating gases and vapors. May emit toxic fumes under fire conditions.

Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool containers / tanks with water spray. Sealed containers may rupture when heated.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions
Remove all sources of ignition. Ventilate the area. Avoid contact with eyes, skin and clothing. Avoid breathing dust or vapor. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Environmental precautions
Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. Keep out of drains, sewers, ditches and waterways. Local authorities should be advised if significant spillages cannot be contained.

Methods and material for containment and cleaning up
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Use clean non-sparking tools to collect absorbed material.

7. HANDLING AND STORAGE
Precautions for safe handling

Handling
Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Ensure adequate ventilation.

Conditions for safe storage, including any incompatibilities

Storage
Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep container closed when not in use. Keep out of the reach of children. Do not freeze.

Incompatible Products

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters
Exposure limits

<table>
<thead>
<tr>
<th>Component</th>
<th>Ontario TWAEV</th>
</tr>
</thead>
</table>
| 1,2-Propylene glycol 57-55-6 | TWA: 10 mg/m³ (aerosol only)  
|                    | TWA: 50 ppm (aerosol and vapor)  
|                    | TWA: 155 mg/m³ (aerosol and vapor) |

Appropriate engineering controls

Engineering Measures
Provide a good standard of general ventilation. Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan. Users are advised to consider national Occupational Exposure Limits or other equivalent values. In case of insufficient ventilation, wear suitable respiratory equipment.

Individual protection measures, such as personal protective equipment

Eye/face Protection
Wear safety glasses with side shields (or goggles). If splashes are likely to occur: Wear suitable face shield. Ensure that eyewash stations and safety showers are close to the workstation location.

Skin Protection
Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory Protection
If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations
Handle in accordance with good industrial hygiene and safety practice. Wash hands before eating, drinking or smoking. Wash contaminated clothing before reuse. Avoid contact with eyes, skin and clothing. Wear suitable gloves and eye/face protection. Regular cleaning of equipment, work area and clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Appearance</th>
<th>Odor</th>
<th>Odor Threshold</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
<td>Colored Liquid</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic</td>
<td>No information available</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>7-9</td>
<td>No data available</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td></td>
<td>No data available</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boiling point/Boiling Range</td>
<td>&gt; 100 °C / 212 °F</td>
<td>No data available</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
10. STABILITY AND REACTIVITY

Reactivity
No information available.

Chemical stability
Stable under normal conditions.

Possibility of Hazardous Reactions
None under normal processing.

Conditions to avoid
Keep away from open flames, hot surfaces and sources of ignition. Do not freeze.

Incompatible materials

Hazardous Decomposition Products
Thermal decomposition can lead to release of irritating gases and vapors. Carbon dioxide (CO2). Carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

<table>
<thead>
<tr>
<th>Route</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>There is no data for this product.</td>
</tr>
<tr>
<td>Eye Contact</td>
<td>There is no data for this product.</td>
</tr>
<tr>
<td>Skin Contact</td>
<td>There is no data for this product.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>There is no data for this product.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Oral LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,2-Propylene glycol</td>
<td>20000 mg/kg (Rat)</td>
</tr>
</tbody>
</table>
### Information on toxicological effects

#### Symptoms
There is no data for this product.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

- **Skin corrosion/irritation**: There is no data for this product.
- **Eye damage/irritation**: There is no data for this product.
- **Irritation**: There is no data for this product.
- **Corrosivity**: There is no data for this product.
- **Sensitisation**: There is no data for this product.
- **Mutagenic Effects**: There is no data for this product.
- **Reproductive Effects**: There is no data for this product.
- **STOT - single exposure**: There is no data for this product.
- **STOT - repeated exposure**: There is no data for this product.
- **Chronic Toxicity**: There is no data for this product.
- **Aspiration hazard**: There is no data for this product.
- **Carcinogenicity**: This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

### Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document

- **ATEmix (oral)**: 904,977.00 mg/kg
- **ATEmix (dermal)**: 941,176.00 mg/kg

### 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

None known

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

<table>
<thead>
<tr>
<th>Component</th>
<th>Algae/aquatic plants</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,2-Propylene glycol 57-55-6</td>
<td>96h EC50 Pseudokirchneriella subcapitata: 19000 mg/L</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Fish</th>
</tr>
</thead>
</table>
| 1,2-Propylene glycol 57-55-6 | 96h LC50 Oncorhynchus mykiss: 41 - 47 mL/L [static]  
96h LC50 Pimephales promelas: 51400 mg/L [static]  
96h LC50 Oncorhynchus mykiss: 51600 mg/L [static]  
96h LC50 Pimephales promelas: 710 mg/L |

<table>
<thead>
<tr>
<th>Component</th>
<th>Crustacea</th>
</tr>
</thead>
</table>
| 1,2-Propylene glycol 57-55-6 | 48h EC50 Daphnia magna: >1000 mg/L [static]  
24h EC50 Daphnia magna: >10000 mg/L |

#### Persistence and Degradability
No information available.

**Bioaccumulation**
No information available.

**Other adverse effects**
No information available

### 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**

**Waste Disposal Methods**
Contain and dispose of waste according to local regulations.

**Contaminated Packaging**
Empty containers should be taken to an approved waste handling site for recycling or disposal.

### 14. TRANSPORT INFORMATION

**DOT**
Proper Shipping Name: Not regulated
Printing Ink

**ICAO / IATA / IMDG / IMO**
Proper Shipping Name: Not Regulated
Printing Ink

### 15. REGULATORY INFORMATION

**International Inventories**
All components are listed on the TSCA Inventory. For further information, please contact: Supplier (manufacturer/importer/downstream user/distributor).

**U.S. Federal Regulations**

**SARA 313**
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**
This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

**U.S. State Regulations**

<table>
<thead>
<tr>
<th>Component</th>
<th>Minnesota Right To Know</th>
<th>New Jersey Right To Know</th>
<th>Pennsylvania Right To Know</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,2-Propylene glycol 57-55-6</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

**California Prop. 65**
This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects
Canada

<table>
<thead>
<tr>
<th>Component</th>
<th>NPRI - National Pollutant Release Inventory</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,2-Propylene glycol 57-55-6</td>
<td>Part 4 Substance as set out in Section 65 of the List of Toxic Substances in Schedule 1 of the Canadian Environmental Protection Act, 1999</td>
</tr>
</tbody>
</table>

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>HMIS:</th>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>X</td>
</tr>
</tbody>
</table>

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION
TWA (time-weighted average)
STEL (Short Term Exposure Limit)
Ceiling Maximum limit value

ACGIH: (American Conference of Governmental Industrial Hygienists)
A1 - Known Human Carcinogen
A2 - Suspected Human Carcinogen
A3 - Animal Carcinogen

IARC: (International Agency for Research on Cancer)
Group 1 - Carcinogenic to Humans
Group 2A - Probably Carcinogenic to Humans
Group 2B - Possibly Carcinogenic to Humans

NTP: (National Toxicity Program)
Known - Known Carcinogen
Reasonably Anticipated to be a Human Carcinogen

OSHA: (Occupational Safety & Health Administration)
X - Present

Revision Date May-30-2015

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of MSDS