

Print Date  
Jun-01-2015

Revision Date  
May-31-2015

Revision Number  
1

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

### Product identifier

Product code **RE190**  
Product name **Thinner**  
Product category **Ink Product**

### 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                                      | UNITED KINGDOM             |
| Nazdar Company                                     | Nazdar Limited             |
| 8501 Hedge Lane Terrace                            | Barton Road                |
| Shawnee, KS 66227                                  | Heaton Mersey              |
| Tel: 1-913-422-1888                                | Stockport, England SK4 3EG |
| Tel: 1-800-677-4657                                | Tel: +44 161 442 2111      |
| Fax: 1-913-422-2294                                |                            |
| <a href="http://www.nazdar.com">www.nazdar.com</a> |                            |

### 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

|                       |                      |
|-----------------------|----------------------|
| Reproductive toxicity | Category 1B - (H360) |
| Flammable liquids     | Category 3 - (H226)  |

### Label elements



### Signal Word

Danger

### Hazard Statements

H360 - May damage fertility or the unborn child  
H226 - Flammable liquid and vapor

### Precautionary Statements

P201 - Obtain special instructions before use  
P280 - Wear protective gloves/protective clothing/eye protection/face protection

P308 + P313 - IF exposed or concerned: Get medical advice/attention  
 P202 - Do not handle until all safety precautions have been read and understood  
 P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

**Hazards not otherwise classified (HNOC)**

No information available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Mixture**

| Component                                   | CAS-No     | Weight % | Trade Secret | Note |
|---|------------|----------|--------------|------|
| Propylene glycol monomethyl ether acetate   | 108-65-6   | 60 - 100 | *            |      |
| Dipropylene glycol monomethyl ether acetate | 88917-22-0 | 10 - 30  | *            |      |

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

### 4. FIRST AID MEASURES

**Description of first aid measures**

|                       |   |
|-----------------------|---|
| <b>General Advice</b> | Show this safety data sheet to the doctor in attendance.  |
| <b>Eye Contact</b>    | 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. |
| <b>Skin Contact</b>   | 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.                |
| <b>Inhalation</b>     | Remove person to fresh air and keep comfortable for breathing. If breathing is irregular or stopped, administer artificial respiration. Get medical attention immediately.                          |
| <b>Ingestion</b>      | 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 (CO<sub>2</sub>). 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.

**Incompatible Products** Strong acids. Strong bases. Strong oxidizing agents. Reducing agent.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Control parameters**

#### **Exposure limits**

| <b>Component</b>  | <b>Ontario TWAEV</b>  |
|---|---|
| Propylene glycol monomethyl ether acetate<br>108-65-6     | TWA: 50 ppm<br>TWA: 270 mg/m <sup>3</sup>   |
| Dipropylene glycol monomethyl ether acetate<br>88917-22-0 | TWA: 100 ppm<br>TWA: 776 mg/m <sup>3</sup><br>STEL: 150 ppm<br>STEL: 1164 mg/m <sup>3</sup> |

### **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**

|                       |                |                       |                          |
|-----------------------|----------------|-----------------------|--------------------------|
| <b>Physical State</b> | Liquid         | <b>Appearance</b>     | Water-white              |
| <b>Odor</b>           | Characteristic | <b>Odor Threshold</b> | No information available |

| <u>Property</u>                        | <u>Values</u>     | <u>Remarks • Method</u> |
|--|-------------------|-------------------------|
| pH                                     |                   | No data available       |
| Melting point/freezing point           |                   | No data available       |
| Boiling point/Boiling Range            | > 149 °C / 300 °F |                         |
| Flash Point                            | 43 °C / 110 °F    | Tag closed cup          |
| Evaporation rate                       |                   | No data available       |
| Flammability Limit in Air              |                   |                         |
| Upper flammability limit               |                   | No data available       |
| Lower flammability limit               |                   | No data available       |
| Vapor Pressure                         |                   | No data available       |
| Vapor Density                          |                   | No data available       |
| Specific Gravity                       | 0.97              |                         |
| Water Solubility                       |                   | No data available       |
| Solubility in other solvents           |                   | No data available       |
| Partition coefficient: n-octanol/water |                   | No data available       |
| Autoignition Temperature               |                   | No data available       |
| Decomposition temperature              |                   | No data available       |
| Kinematic viscosity                    |                   | No data available       |
| Dynamic viscosity                      |                   | No data available       |

**Explosive Properties** No data available  
**Oxidizing Properties** No data available

**Other Information**

**Photochemically Reactive** No  
**Weight Per Gallon (lbs/gal)** 8.09

| VOC by weight %<br>(less water) | VOC by volume %<br>(less water) | VOC lbs/gal<br>(less water) | VOC grams/liter<br>(less water) |
|---------------------------------|---------------------------------|-----------------------------|---------------------------------|
| 100                             | 100                             | 8.09                        | 969.16                          |

**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.

**Incompatible materials**  
 Strong acids. Strong bases. Strong oxidizing agents. Reducing agent.

**Hazardous Decomposition Products**

Thermal decomposition can lead to release of irritating gases and vapors. Carbon dioxide (CO<sub>2</sub>). Carbon monoxide.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

|                     |                                    |
|---------------------|------------------------------------|
| <b>Inhalation</b>   | There is no data for this product. |
| <b>Eye Contact</b>  | There is no data for this product. |
| <b>Skin Contact</b> | There is no data for this product. |
| <b>Ingestion</b>    | There is no data for this product. |

| Component   | Oral LD50          |
|---|--------------------|
| Propylene glycol monomethyl ether acetate<br>108-65-6 | 8532 mg/kg ( Rat ) |

| Component   | LD50 Dermal           |
|---|-----------------------|
| Propylene glycol monomethyl ether acetate<br>108-65-6 | 5000 mg/kg ( Rabbit ) |

**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**

|                                  |  |
|----------------------------------|--|
| <b>Skin corrosion/irritation</b> | There is no data for this product.   |
| <b>Eye damage/irritation</b>     | There is no data for this product.   |
| <b>Irritation</b>                | There is no data for this product.   |
| <b>Corrosivity</b>               | There is no data for this product.   |
| <b>Sensitisation</b>             | There is no data for this product.   |
| <b>Mutagenic Effects</b>         | There is no data for this product.   |
| <b>Reproductive Effects</b>      | There is no data for this product.   |
| <b>STOT - single exposure</b>    | There is no data for this product.   |
| <b>STOT - repeated exposure</b>  | There is no data for this product.   |
| <b>Chronic Toxicity</b>          | There is no data for this product.   |
| <b>Aspiration hazard</b>         | There is no data for this product.   |
| <b>Carcinogenicity</b>           | 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

|                        |                     |
|------------------------|---------------------|
| <b>ATEmix (oral)</b>   | 10,718.00 mg/kg     |
| <b>ATEmix (dermal)</b> | 6,282.00 mg/kg mg/l |

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

None known

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

| Component   | Fish  |
|---|---|
| Propylene glycol monomethyl ether acetate<br>108-65-6 | 96h LC50 Pimephales promelas: 161 mg/L [static] |

| Component   | Crustacea                         |
|---|-----------------------------------|
| Propylene glycol monomethyl ether acetate<br>108-65-6 | 48h EC50 Daphnia magna: >500 mg/L |

**Persistence and Degradability**

No information available.

**Bioaccumulation**

No information available.

| Component   | Partition coefficient |
|---|-----------------------|
| Propylene glycol monomethyl ether acetate<br>108-65-6 | 0.43                  |

**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**

In the U.S. and Canada, this material may be reclassified as a combustible liquid and is not regulated, via surface transportation, in containers less than 119 gallons or 450 liters [per 49 CFR 173.150 (f)] [per Transportation of Dangerous Goods Regulations/Clear Language Part 1.33].

|                             |                               |
|-----------------------------|-------------------------------|
| <b>UN/ID no.</b>            | UN1210                        |
| <b>Proper Shipping Name</b> | Printing Ink Related Material |
| <b>Hazard Class</b>         | 3                             |
| <b>Packing Group</b>        | III                           |

**ICAO / IATA / IMDG / IMO**

|                             |                               |
|-----------------------------|-------------------------------|
| <b>UN/ID no.</b>            | UN1210                        |
| <b>Proper Shipping Name</b> | Printing Ink Related Material |
| <b>Hazard Class</b>         | 3                             |
| <b>Packing Group</b>        | III                           |

### 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**

