



**RAI Products**  
Traffic Control and ITS Solutions

## SAFETY DATA SHEET

Revision date 23-Feb-2018

Version 11

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### Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product identifier**

**Product Code** 40453.G01

**Product Name** PRO-SEAL 6006

**Other means of identification**

No information available

**Recommended use of the chemical and restrictions on use**

Fillers and putty

**Details of the supplier of the safety data sheet**

*See section 16 for more information*

RAI Products  
421 Rountree Road

Charlotte, NC 28217

888-776-7325

**E-mail address** [Info@RAIProducts.com](mailto:Info@RAIProducts.com)

**Emergency telephone number**

United States of America ChemTel: 800-255-3924

### Section 2: HAZARDS IDENTIFICATION

**Classification**

|  |             |
|--|-------------|
| Skin corrosion/irritation                          | Category 2  |
| Serious eye damage/eye irritation                  | Category 2  |
| Carcinogenicity                                    | Category 1B |
| Reproductive toxicity                              | Category 2  |
| Specific target organ toxicity (repeated exposure) | Category 1  |
| Flammable liquids                                  | Category 3  |

**Label elements**



Signal word

**DANGER**

#### HAZARD STATEMENTS

Flammable liquid and vapor

Causes skin irritation

Causes serious eye irritation

May cause cancer

Suspected of damaging fertility or the unborn child

Causes damage to the following organs through prolonged or repeated exposure: Ears

#### PREVENTION

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Wash face, hands and any exposed skin thoroughly after handling. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ ventilating/ lighting/ equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

#### RESPONSE

IF exposed or concerned: Get medical advice/attention.

##### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

##### Skin

If skin irritation occurs: Get medical advice/attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. Wash contaminated clothing before reuse.

##### Inhalation

IF INHALED: Call a POISON CENTER or doctor if you feel unwell.

##### Ingestion

Do NOT induce vomiting. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

##### Fire

In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction.

#### STORAGE

Store locked up. Store in a well-ventilated place. Keep cool.

#### DISPOSAL

Dispose of contents/containers in accordance with local regulations.

#### HAZARDS NOT OTHERWISE CLASSIFIED (HNOC)

No information available.

#### OTHER HAZARDS

Not applicable.

#### UNKNOWN ACUTE TOXICITY

0% of the mixture consists of ingredient(s) of unknown toxicity.

### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name       | CAS No   | weight-% |
|---------------------|----------|----------|
| Styrene             | 100-42-5 | 10 - 25  |
| N,N-Dimethylaniline | 121-69-7 | 0.3 - 1  |

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

## Section 4: FIRST AID MEASURES

### First Aid Measures

#### **General advice**

IF exposed or concerned: Get medical advice/attention.

#### **Eye contact**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### **Skin Contact**

If skin irritation occurs: Get medical advice/attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. Wash contaminated clothing before reuse.

#### **Inhalation**

IF INHALED: Call a POISON CENTER or doctor if you feel unwell.

#### **Ingestion**

Do NOT induce vomiting. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

### Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

### Indication of any immediate medical attention and special treatment needed

**Note to physicians** Treat symptomatically.

## Section 5: FIRE FIGHTING MEASURES

### Suitable extinguishing media

Dry chemical, CO<sub>2</sub>, water spray or alcohol-resistant foam.

Not to be used for safety reasons: Strong water jet

### Specific hazards arising from the chemical

Burning produces heavy smoke. Fire may produce irritating and/or toxic gases. In the event of fire and/or explosion do not breathe fumes.

### Special protective equipment for fire-fighters

Wear self-contained breathing apparatus and protective suit. Cool containers with flooding quantities of water until well after fire is out. Do not allow run-off from fire-fighting to enter drains or water courses.

## Section 6: ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

#### **Personal precautions**

Avoid breathing vapors or mists. Remove all sources of ignition. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas. Take precautionary measures against static discharges.

#### **For emergency responders**

Use personal protection recommended in Section 8.

### Environmental precautions

Do not allow into any sewer, on the ground or into any body of water. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

### **Methods and material for containment and cleaning up**

#### **Methods for containment**

Prevent further leakage or spillage if safe to do so.

#### **Methods for cleaning up**

Dispose of waste product or used containers according to local regulations. Clean with detergents. Avoid solvent cleaners. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labeled containers.

## **Section 7: HANDLING AND STORAGE**

### **Precautions for safe handling**

#### **Advice on safe handling**

Prevent the creation of flammable or explosive concentrations of vapor in air and avoid vapor concentration higher than the occupational exposure limits. Operators should wear anti-static footwear and clothing and floors should be of the conducting type. Use personal protection recommended in Section 8. Never use pressure to empty container. Comply with the health and safety at work laws. Prevent product from entering drains. Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Do not breathe dust/fume/gas/mist/vapors/spray. Use only in well-ventilated areas. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded.

#### **General Hygiene Considerations**

Avoid contact with skin, eyes or clothing. When using do not eat, drink or smoke. Wash contaminated clothing before reuse.

### **Conditions for safe storage, including any incompatibilities**

#### **Storage Conditions**

Keep/store only in original container. Store in accordance with local regulations. Keep unauthorized personnel away. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Keep tightly closed in a dry and cool place.

#### **Incompatible materials**

Bases. Strong oxidizing agents. Acids. Alkali. Aluminum. Copper. Halogens.

## **Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Control parameters**

#### **Exposure Limits**

If S\* appears in the OEL table, it indicates this chemical contains a skin notation.

| <b>Chemical Name</b>            | <b>ACGIH TLV</b>                 | <b>OSHA PEL</b>                               | <b>NIOSH IDLH</b>  |
|---------------------------------|----------------------------------|---|--|
| Styrene<br>100-42-5             | STEL: 40 ppm<br>TWA: 20 ppm      | TWA: 100 ppm<br>Ceiling: 200 ppm              | IDLH: 700 ppm<br>TWA: 50 ppm<br>TWA: 215 mg/m <sup>3</sup><br>STEL: 100 ppm<br>STEL: 425 mg/m <sup>3</sup> |
| N,N-Dimethylaniline<br>121-69-7 | STEL: 10 ppm<br>TWA: 5 ppm<br>S* | TWA: 5 ppm<br>TWA: 25 mg/m <sup>3</sup><br>S* | IDLH: 100 ppm<br>TWA: 5 ppm<br>TWA: 25 mg/m <sup>3</sup><br>STEL: 10 ppm<br>STEL: 50 mg/m <sup>3</sup>     |

### **Appropriate engineering controls**

#### **Engineering Controls**

Ensure adequate ventilation, especially in confined areas. Provide local exhaust ventilation. 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).

### **Skin and body protection**

Wear suitable protective clothing. Personnel should wear anti-static clothing made of natural fiber or of high temperature resistant synthetic fiber.

### **Hand Protection**

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. Gloves should be replaced regularly and if there is any sign of damage to the glove material. Always ensure that gloves are free from defects and that they are stored and used correctly. The performance or effectiveness of the glove may be reduced by physical / chemical damage and poor maintenance. Wear protective gloves.

### **Respiratory protection**

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

### **Thermal Protection**

No information available

## **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

### **Information on basic physical and chemical properties**

|                                      |                                  |
|--------------------------------------|----------------------------------|
| <b>Physical state</b>                | liquid                           |
| <b>Appearance</b>                    | No information available         |
| <b>Odor</b>                          | Aromatic                         |
| <b>Color</b>                         | dark green                       |
| <b>Odor Threshold</b>                | No information available         |
| <b>pH value</b>                      | No information available         |
| <b>Melting point/freezing point</b>  | No information available         |
| <b>Boiling point / boiling range</b> | No information available °C / °F |
| <b>flash point</b>                   | 29 °C / 84 °F                    |
| <b>evaporation rate</b>              | No information available         |
| <b>Flammability (solid, gas)</b>     | No information available         |
| <b>Flammability Limit in Air</b>     |                                  |
| <b>Upper flammability limit:</b>     | No information available         |
| <b>Lower flammability limit:</b>     | No information available         |
| <b>Vapor Pressure</b>                | No information available         |
| <b>vapor density</b>                 | No information available         |
| <b>Density (lbs per US gallon)</b>   | 12.4                             |
| <b>specific gravity</b>              | 1.49                             |
| <b>Solubility(ies)</b>               | No information available         |
| <b>Partition coefficient</b>         | No information available         |
| <b>Autoignition temperature</b>      | No information available         |
| <b>Decomposition temperature</b>     | No information available         |
| <b>Kinematic viscosity</b>           | 1400 mm <sup>2</sup> per second  |
| <b>Dynamic viscosity</b>             | No information available         |

### **Other information**

## **Section 10: STABILITY AND REACTIVITY**

|   |                                 |
|---|---------------------------------|
| <b>Reactivity</b>                         | No information available.       |
| <b>Chemical stability</b>                 | Stable under normal conditions. |
| <b>Possibility of Hazardous Reactions</b> | None under normal processing.   |
| <b>Hazardous polymerization</b>           | None under normal processing.   |

**Conditions to avoid** Heat, flames and sparks.

**Incompatible materials** Bases. Strong oxidizing agents. Acids. Alkali. Aluminum. Copper. Halogens.

**Hazardous Decomposition Products** Carbon monoxide. Carbon dioxide (CO2). Hydrocarbons.

## Section 11: TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Eye contact**  
Causes serious eye irritation

**Skin Contact**  
Causes skin irritation

**Ingestion**  
Not applicable

**Inhalation**  
Not applicable

### Numerical measures of toxicity - Component Information

| Chemical Name                   | Oral LD50            | Dermal LD50             | Inhalation LC50              |
|---------------------------------|----------------------|-------------------------|------------------------------|
| Styrene<br>100-42-5             | = 1000 mg/kg ( Rat ) | -                       | = 11.7 mg/L ( Rat ) 4 h      |
| N,N-Dimethylaniline<br>121-69-7 | = 951 mg/kg ( Rat )  | = 1770 µL/kg ( Rabbit ) | > 0.5 - 5.0 mg/L ( Rat ) 4 h |

### Numerical measures of toxicity - Product Information

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

**ATEmix (oral)** 23779 Mg/kg  
**ATEmix (dermal)** 71336 Mg/kg  
**ATEmix (inhalation-dust/mist)** 7.1 mg/l  
**ATEmix (inhalation-vapor)** 51 mg/l

**UNKNOWN ACUTE TOXICITY** 0% of the mixture consists of ingredient(s) of unknown toxicity.

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

| Chemical Name       | ACGIH | IARC     | NTP                    | OSHA |
|---------------------|-------|----------|------------------------|------|
| Styrene<br>100-42-5 |       | Group 2B | Reasonably Anticipated | X    |

*IARC (International Agency for Research on Cancer)  
 Group 2B - Possibly Carcinogenic to Humans.  
 NTP (National Toxicology Program)  
 Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen.  
 OSHA (Occupational Safety and Health Administration of the US Department of Labor)  
 X - Present.*

**Skin corrosion/irritation** Causes skin irritation

**Serious eye damage/eye irritation** Causes serious eye irritation

**Skin sensitization** Not applicable

**Respiratory sensitization** Not applicable

**Germ cell mutagenicity** Not applicable

**Carcinogenicity** May cause cancer

**Reproductive Toxicity** Suspected of damaging fertility or the unborn child

**Specific target organ toxicity (single exposure)** Not applicable

**Specific target organ toxicity (repeated exposure)**  
Causes damage to the following organs through prolonged or repeated exposure: Ears

**Aspiration hazard** Not applicable

## Section 12: ECOLOGICAL INFORMATION

**Ecotoxicity**

Environmental precautions Prevent product from entering drains.

**Persistence and degradability**

No information available

**Bioaccumulation**

No information available

**Mobility**

No information available

**Other adverse effects**

No information available

**Section 13: DISPOSAL CONSIDERATIONS****Waste treatment methods****Disposal of wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging**

Improper disposal or reuse of this container may be dangerous and illegal. Empty containers must be scrapped or reconditioned.

**Section 14: TRANSPORT INFORMATION**

|   | <b>DOT</b>                             | <b>IMDG</b>    | <b>IATA</b>              |
|---|--|----------------|--------------------------|
| 14.1 UN/ID no   | UN1866                                 | UN1866         | UN1866                   |
| 14.2 Proper shipping name   | Resin solution                         | Resin solution | Resin solution           |
| 14.3 Hazard Class   | 3                                      | 3              | 3                        |
| 14.4 Packing Group  | III                                    | III            | III                      |
| 14.5 Environmental hazard   |  |                |                          |
| 14.6 Special Provisions   | B1, B52, IB3, T2, TP1                  | 223, 955       | A3                       |
|   | <b>Emergency Response Guide Number</b> | <b>EmS-No</b>  |                          |
|   | 127                                    | F-E, S-E       |                          |
| 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code |  |                | No information available |

The supplier may apply one of the following exceptions: Combustible Liquid (49 CFR 173.150(f)); Consumer Commodity (49 CFR 173.150(c), ICAO/IATA SP A112); Limited Quantity (49 CFR 173.150(b), ICAO Part 3 Chapter 4, IATA 2.7, IMDG Chapter 3.4); Viscous Liquid (49 CFR 173.121(b), IMDG 2.3.2.2, IATA 3.3.3.1.1, ICAO 3.2.2, ADR 2.2.3.1.5); Does Not Sustain Combustion (49 CFR 173.120(a), IATA 3.3.1.3, ICAO 3.1.3, IMDG 2.3.1.3, ADR 2.2.3.1.1 Note 1); or others as allowed under hazardous materials/dangerous goods regulations.

**Section 15: REGULATORY INFORMATION****International Inventories****TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

All components are listed or exempt from listing.

**DSL** - Canadian Domestic Substances List

Not all components are listed or exempt from listing

**US Federal Regulations**

| Chemical Name                              | SARA 313 - Threshold Values % | Metals | Hazardous air pollutants (HAPs) content |
|--|-------------------------------|--------|---|
| Styrene<br>100-42-5<br>10 - 25             | 0.1                           |        | Present                                 |
| N,N-Dimethylaniline<br>121-69-7<br>0.3 - 1 | 1                             |        | Present                                 |

**SARA 311/312 Hazard Categories**

|                                   |     |
|-----------------------------------|-----|
| Acute health hazard               | Yes |
| Chronic Health Hazard             | Yes |
| Fire hazard                       | Yes |
| Sudden release of pressure hazard | No  |
| Reactive Hazard                   | Yes |

| Chemical Name       | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Styrene<br>100-42-5 | 1000 lb                     |                        |                           | X                          |

| Chemical Name                   | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ)                  |
|---------------------------------|--------------------------|----------------|---|
| Styrene<br>100-42-5             | 1000 lb                  |                | RQ 1000 lb final RQ<br>RQ 454 kg final RQ |
| N,N-Dimethylaniline<br>121-69-7 | 100 lb                   |                | RQ 100 lb final RQ<br>RQ 45.4 kg final RQ |

**US State Regulations****Rule 66 status of product**

Not photochemically reactive.

**California Proposition 65**

WARNING! This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

**U.S. EPA Label information****EPA Pesticide registration number** Not applicable**U.S. State Right-to-Know Regulations**

|  |
|--|
| Chemical Name  |
| Proprietary Non-Hazardous Ingredient - Proprietary CAS |
| Proprietary Inert                                      |
| Styrene<br>100-42-5                                    |
| Magnesium carbonate<br>546-93-0                        |
| N,N-Dimethylaniline<br>121-69-7                        |

**Section 16: OTHER INFORMATION****HMIS****Health hazards** 3\*

\* = Chronic Health Hazard

**Flammability** 3**Physical hazards** 1**Personal Protection** X**Prepared By** Regulatory Department**Revision date** 23-Feb-2018**Revision Note** No information available**Disclaimer**



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**End of Safety Data Sheet**