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

1.1. Product identifier
Product form: Mixture
Trade name: Tempilstik® 600 °F (316 °C), 608 °F (320 °C)

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture: Temperature indicator

1.3. Details of the supplier of the safety data sheet
LA-CO Industries, Inc.
1201 Pratt Boulevard
Elk Grove Village, IL  60007-5746
Phone: (847) 956-7600
Fax: (847) 956-9885
E-mail: customer_service@laco.com

1.4. Emergency telephone number

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification in accordance with the Globally Harmonized Standard
Acute Tox. 4 (Oral) H302
Eye Irrit. 2A H319
Skin Sens. 1 H317
Carc. 1A H350
Full text of H-phrases: see section 16

2.2. Label elements

GHS labelling
Hazard pictograms (GHS): 

Signal word (GHS): Danger
Hazard statements (GHS): H302 - Harmful if swallowed
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H350 - May cause cancer

Precautionary statements (GHS): P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P261 - Avoid breathing dust, fume
P264 - Wash hands thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P272 - Contaminated work clothing must not be allowed out of the workplace
P280 - Wear eye protection, protective clothing, protective gloves
P301+P312 - If swallowed: Call a doctor, a POISON CENTER if you feel unwell
P302+P352 - If on skin: Wash with plenty of water
P305+P365+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P308+P313 - If exposed or concerned: Get medical advice/attention
P321 - Specific treatment (see First aid measures on this label)
P330 - Rinse mouth
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
P337+P313 - If eye irritation persists: Get medical advice/attention
P362+P364 - Take off contaminated clothing and wash it before reuse
P405 - Store locked up
P501 - Dispose of contents/container to an authorised waste collection point

SECTION 3: Composition/information on ingredients

3.1. Substance
Not applicable

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>% (w/w)</th>
<th>GHS classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,3,5-Triazine-2,4,6-triamine, polymer with formaldehyde, butylated</td>
<td>(CAS No) 68002-25-5</td>
<td>4.47</td>
<td>Flam. Liq. 3, H226</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>(CAS No) 50-00-0</td>
<td>0.24</td>
<td>Flam. Liq. 4, H227, Acute Tox. 3 (Dermal), H311, Acid Tox. 3 (Inhalation), H331, Skin Corr. 1B, H314, Skin Sens. 1, H317, Carc. 1A, H350, STOT SE 3, H335</td>
</tr>
<tr>
<td>Fluorescein</td>
<td>(CAS No) 2321-07-5</td>
<td>81.31 – 86.05</td>
<td>Acute Tox. 4 (Oral), H302, Eye Irrit. 2A, H319</td>
</tr>
</tbody>
</table>

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general: Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

First-aid measures after inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

First-aid measures after skin contact: Wash with plenty of soap and water. Wash contaminated clothing before reuse.

First-aid measures after eye contact: Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after skin contact: May cause an allergic skin reaction.

Symptoms/injuries after eye contact: Causes serious eye irritation.

Symptoms/injuries after ingestion: Swallowing a small quantity of this material will result in serious health hazard.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media


Unsuitable extinguishing media: None known.

5.2. Special hazards arising from the substance or mixture

Fire hazard: No specific fire or explosion hazard. Burning produces irritating, toxic and noxious fumes.

Reactivity: No dangerous reactions known.

5.3. Advice for firefighters

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not allow run-off from fire fighting to enter drains or water courses.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures: Avoid creating or spreading dust. Avoid contact with skin and eyes.
Tempilstik® 600 °F (316 °C), 608 °F (320 °C)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
according to Canadian Hazardous Products Regulations (HPR)

6.1.1. For non-emergency personnel
Protective equipment: Chemical goggles or safety glasses. Wear suitable protective clothing and gloves.
Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders
Protective equipment: Chemical goggles or safety glasses. Wear suitable protective clothing and gloves.
Emergency procedures: Ventilate area.

6.2. Environmental precautions
Avoid release to the environment.

6.3. Methods and material for containment and cleaning up
For containment: Avoid generating dust. Contain and collect as any solid.
Methods for cleaning up: Minimize generation of dust. On land, sweep or shovel into suitable containers.

6.4. Reference to other sections
Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling: Avoid breathing dust, fume. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
Hygiene measures: Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions: Keep container tightly closed.
Incompatible products: Strong oxidizers. Strong bases.
Prohibitions on mixed storage: Keep away from incompatible materials.
Storage area: Store in dry, cool, well-ventilated area.

7.3. Specific end use(s)
Temperature indicator.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th></th>
<th>Tempilstik® 600 °F (316 °C), 608 °F (320 °C)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td>Not applicable</td>
</tr>
<tr>
<td></td>
<td>OSHA</td>
</tr>
<tr>
<td></td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

Fluorescein (2321-07-5)

|          | ACGIH                                      |
|          | Not applicable                             |
|          | OSHA                                       |
|          | Not applicable                             |

Formaldehyde (50-00-0)

|          | ACGIH                                      |
|          | ACGIH Ceiling (mg/m³)                      | 0.37 mg/m³ |
|          | ACGIH                                      |
|          | ACGIH Ceiling (ppm)                        | 0.3 ppm    |
|          | ACGIH                                      |
|          | Remark (ACGIH)                             | URT & eye ir; SEN; A2 |
|          | OSHA                                       |
|          | OSHA PEL (TWA) (ppm)                       | 0.75 ppm   |
|          | OSHA                                       |
|          | OSHA PEL (STEL) (ppm)                      | 2 ppm      |
|          | Canada (Quebec)                            |
|          | PLAFOND (mg/m³)                            | 3 mg/m³    |
|          | Canada (Quebec)                            |
|          | PLAFOND (ppm)                              | 2 ppm      |
|          | Canada (Quebec)                            |
|          | Notations and remarks                      | (C2)       |

1,3,5-Triazine-2,4,6-triamine, polymer with formaldehyde, butylated (68002-25-5)

|          | ACGIH                                      |
|          | Not applicable                             |
|          | OSHA                                       |
|          | Not applicable                             |
Tempilstik® 600 °F (316 °C), 608 °F (320 °C)

Safety Data Sheet

8.2. Exposure controls

Appropriate engineering controls : Avoid dispersal of dust in the air (ie, clearing dust surfaces with compressed air). Ensure good ventilation of the work station.

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear dust impervious gloves.

Eye protection : Chemical goggles or safety glasses.

Skin and body protection : Long sleeved protective clothing.

Respiratory protection : In case of inadequate ventilation wear respiratory protection. Use air-purifying respirator equipped with particulate filtering cartridges.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : A solid crayon-like marker.
Colour : Variable.
Odour : odourless.
Odour threshold : No data available
pH : No data available
Relative evaporation rate (butyl acetate=1) : No data available
Melting point : No data available
Freezing point : No data available
Boiling point : No data available
Flash point : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapour pressure : No data available
Relative vapour density at 20 °C : No data available
Relative density : No data available
Solubility : No data available
Log Pow : No data available
Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

9.2. Other information

VOC content : 0 %

SECTION 10: Stability and reactivity

10.1. Reactivity
No dangerous reactions known.

10.2. Chemical stability
The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions
Hazardous polymerization will not occur.

10.4. Conditions to avoid
Keep away from incompatible materials. Avoid dust formation.

10.5. Incompatible materials
Strong bases. Strong oxidizers.

10.6. Hazardous decomposition products
Thermal decomposition generates: Carbon dioxide. Carbon monoxide.

SECTION 11: Toxicological information
11.1. Information on toxicological effects

**Acute toxicity**

<table>
<thead>
<tr>
<th>Substance/Composition</th>
<th>Oral: Harmful if swallowed.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tempilstik® 600 °F (316 °C), 608 °F (320 °C)</td>
<td></td>
</tr>
<tr>
<td>ATE CLP (oral)</td>
<td>674.303 mg/kg bodyweight</td>
</tr>
</tbody>
</table>

**Fluorescein (2321-07-5)**

| LD50 oral rat | 600 mg/kg |
| ATE CLP (oral) | 600,000 mg/kg bodyweight |

**formaldehyde (50-00-0)**

| LC50 inhalation rat (ppm) | 31.7 ppm |
| ATE CLP (oral) | 100,000 mg/kg bodyweight |
| ATE CLP (dermal) | 300,000 mg/kg bodyweight |
| ATE CLP (dust,mist) | 0.500 mg/l/4h |

**1,3,5-Triazine-2,4,6-triamine, polymer with formaldehyde, butylated (68002-25-5)**

| LD50 oral rat | > 1100 mg/kg |
| LD50 dermal rabbit | 1800 mg/kg |
| LC50 inhalation rat (mg/l) | > 6 mg/l/4h |
| ATE CLP (dermal) | 1800,000 mg/kg bodyweight |

**Skin corrosion/irritation**

Not classified

**Serious eye damage/irritation**

Causes serious eye irritation.

**Respiratory or skin sensitisation**

May cause an allergic skin reaction.

**Germ cell mutagenicity**

Not classified

**Carcinogenicity**

May cause cancer.

**formaldehyde (50-00-0)**

| IARC group | 1 - Carcinogenic to humans |
| National Toxicology Program (NTP) Status | 2 - Known Human Carcinogens |
| Reproductive toxicity | Not classified |
| Specific target organ toxicity (single exposure) | Not classified |
| Specific target organ toxicity (repeated exposure) | Not classified |
| Aspiration hazard | Not classified |

**Potential adverse human health effects and symptoms**

**Symptoms/injuries after skin contact**

May cause an allergic skin reaction.

**Symptoms/injuries after eye contact**

Causes serious eye irritation.

**Symptoms/injuries after ingestion**

Swallowing a small quantity of this material will result in serious health hazard.

**Likely routes of exposure**

Inhalation;Skin and eye contact

**SECTION 12: Ecological information**

**12.1 Toxicity**

**formaldehyde (50-00-0)**

| LC50 fish 1 | 31.8 (21.1 - 47.7) mg/l 96 h |
| EC50 Daphnia 1 | 1.9 mg/l 48 h |

**12.2 Persistence and degradability**

**formaldehyde (50-00-0)**

**Persistence and degradability**

Readily biodegradable.

**12.3. Bioaccumulative potential**

**formaldehyde (50-00-0)**

| BCF fish 1 | < 1 |
| Log Pow | 0.35 |

**12.4. Mobility in soil**

No additional information available

**12.5. Other adverse effects**

No additional information available
SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal recommendations: Do not dispose of waste into sewer.
Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

In accordance with DOT and TDG
Not considered a dangerous good for transport regulations
Proper Shipping Name (ADR): Not applicable

Transport by sea
No additional information available

Air transport
No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

Fluorescein (2321-07-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

formaldehyde (50-00-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
RQ (Reportable quantity, section 304 of EPA's List of Lists): 100 lb
SARA Section 302 Threshold Planning Quantity (TPQ): 500 lb
SARA Section 311/312 Hazard Classes: Immediate (acute) health hazard, Delayed (chronic) health hazard
SARA Section 313 - Emission Reporting: 0 %

1,3,5-Triazine-2,4,6-triamine, polymer with formaldehyde, butylated (68002-25-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e., Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C)).

15.2. International regulations

CANADA

Fluorescein (2321-07-5)
Listed on the Canadian DSL (Domestic Substances List) inventory.

formaldehyde (50-00-0)
Listed on the Canadian DSL (Domestic Substances List) inventory.

1,3,5-Triazine-2,4,6-triamine, polymer with formaldehyde, butylated (68002-25-5)
Listed on the Canadian DSL (Domestic Substances List) inventory.

EU-Regulations

Fluorescein (2321-07-5)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

formaldehyde (50-00-0)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

1,3,5-Triazine-2,4,6-triamine, polymer with formaldehyde, butylated (68002-25-5)
Listed on ELINCS (European List of Notified Chemical Substances)

National regulations

Tempilstik® 600 °F (316 °C), 608 °F (320 °C)
All components are listed on the EEC inventory European Inventory of Existing Commercial Chemical Substances (EINECS).
All ingredients are listed in the Toxic Substances Control Act (TSCA).
All ingredients are listed on the Canadian Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL).
**Tempilstik® 600 °F (316 °C), 608 °F (320 °C)**

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

according to Canadian Hazardous Products Regulations (HPR)

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**15.3. US State regulations**

<table>
<thead>
<tr>
<th>formaldehyde (50-00-0)</th>
<th>U.S. - California - Proposition 65 - Carcinogens List</th>
<th>U.S. - California - Proposition 65 - Developmental Toxicity</th>
<th>U.S. - California - Proposition 65 - Reproductive Toxicity - Female</th>
<th>U.S. - California - Proposition 65 - Reproductive Toxicity - Male</th>
<th>No significance risk level (NSRL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

**formaldehyde (50-00-0)**

- U.S. - Minnesota - Hazardous Substance List
- U.S. - New Jersey - Right to Know Hazardous Substance List
- U.S. - New York - Right to Know List of Hazardous Chemicals
- U.S. - Pennsylvania - List of Hazardous Substances

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**SECTION 16: Other information**

**Indication of changes**: Original Document.

**Data sources**: ACGIH (American Conference of Government Industrial Hygienists).


**Abbreviations and acronyms**: ATE: Acute Toxicity Estimate. CAS (Chemical Abstracts Service) number.

CLP: Classification, Labelling, Packaging.

EC50: Environmental Concentration associated with a response by 50% of the test population.

GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).

LD50: Lethal Dose for 50% of the test population.

OSHA: Occupational Safety & Health Administration.

PBT: Persistent, Bioaccumulative, Toxic.

TWA: Time Weight Average.

TSCA: Toxic Substances Control Act.

**Other information**: None.

**NFPA health hazard**: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

**NFPA fire hazard**: 1 - Must be preheated before ignition can occur.

**NFPA reactivity**: 0 - Normally stable, even under fire exposure conditions, and not reactive with water.

**Full text of H-phrases**:

- **Acute Tox. 3 (Dermal)**: Acute toxicity (dermal), Category 3
- **Acute Tox. 3 (Inhalation)**: Acute toxicity (inhal.), Category 3
- **Acute Tox. 3 (Oral)**: Acute toxicity (oral), Category 3
- **Acute Tox. 4 (Dermal)**: Acute toxicity (dermal), Category 4
- **Acute Tox. 4 (Oral)**: Acute toxicity (oral), Category 4
- **Carc. 1A**: Carcinogenicity, Category 1A
- **Eye Dam. 1**: Serious eye damage/eye irritation, Category 1
- **Eye Irrit. 2A**: Serious eye damage/eye irritation, Category 2A
- **Flam. Liq. 3**: Flammable liquids, Category 3
- **Flam. Liq. 4**: Flammable liquids, Category 4
- **Skin Corr. 1B**: Skin corrosion/irritation, Category 1B
- **Skin Irrit. 2**: Skin corrosion/irritation, Category 2
- **Skin Sens. 1**: Sensitisation — Skin, category 1
- **STOT SE 3**: Specific target organ toxicity — Single exposure, Category 3, Narcosis
- **STOT SE 3**: Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
- **HZ26**: Flammable liquid and vapour
- **HZ27**: Combustible liquid
## Tempilstik® 600 °F (316 °C), 608 °F (320 °C)

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
according to Canadian Hazardous Products Regulations (HPR)

<table>
<thead>
<tr>
<th>H301</th>
<th>Toxic if swallowed</th>
</tr>
</thead>
<tbody>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H311</td>
<td>Toxic in contact with skin</td>
</tr>
<tr>
<td>H312</td>
<td>Harmful in contact with skin</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H331</td>
<td>Toxic if inhaled</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation</td>
</tr>
<tr>
<td>H336</td>
<td>May cause drowsiness or dizziness</td>
</tr>
<tr>
<td>H338</td>
<td>Causes severe eye damage</td>
</tr>
</tbody>
</table>

### SDS Prepared by:
The Redstone Group, LLC
6077 Frantz Rd.
Suite 206
Dublin, OH USA 43016
T 614-923-7472
www.redstonegrp.com

LACO NA GHS SDS

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.