according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations according to Canadian Hazardous Products Regulations (HPR) Date of issue: 04/20/2015 Version: 1.0

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

1.1. **Product identifier**

Product form

Trade name

LA-CO Industries, Inc.

: Mixture

: 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

Emergency number

: 24-hour emergency: CHEMTREC- U.S. : 1-800-424-9300 International: +1-703-527-3887

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)

	GHS07 GHS	08	
Signal word (GHS)	: Danger		
Hazard statements (GHS)	: H302 - Harmful if swallov H317 - May cause an alle H319 - Causes serious e H350 - May cause cance	ergic skin reaction ye irritation	
Precautionary statements (GHS)	P261 - Avoid breathing d P264 - Wash hands thord P270 - Do not eat, drink d P272 - Contaminated wo P280 - Wear eye protecti P301+P312 - If swallowe P302+P352 - If on skin: V P305+P351+P338 - If in lenses, if present and eas P308+P313 - If exposed P321 - Specific treatmen P330 - Rinse mouth P333+P313 - If skin irrita P337+P313 - If eye irritat	il all safety precautions have been read and understuust, fume	ell
20/04/2015	EN (English)	SDS Ref.: LACO1504030	1/1

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P501 - Dispose of contents/container to an authorised waste collection point

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	% (w/w)	GHS classification
Fluorescein	(CAS No) 2321-07-5	81.31 – 86.05	Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319
1,3,5-Triazine-2,4,6-triamine, polymer with formaldehyde, butylated	(CAS No) 68002-25-5	4.47	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312
formaldehyde	(CAS No) 50-00-0	0.24	Flam. Liq. 4, H227 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1B, H314 Skin Sens. 1, H317 Carc. 1A, H350 STOT SE 3, H335

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. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: 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.
First-aid measures after ingestion	: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.
4.2. Most important symptoms and effect	ts, both acute and delayed
Symptoms/injuries	: May cause cancer.
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 measure	S
5.1. Extinguishing media	
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Sand. Water spray.
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: Assidental release m	

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.

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6.1.1.	For non-emergency personne	
-	• • •	
	re equipment	: Chemical goggles or safety glasses. Wear suitable protective clothing and gloves.
Emergen	ncy procedures	: Evacuate unnecessary personnel.
6.1.2.	For emergency responders	
Protectiv	e equipment	: Chemical goggles or safety glasses. Wear suitable protective clothing and gloves.
Emergen	ncy procedures	: Ventilate area.
6.2.	Environmental precautions	
Avoid rel	lease to the environment.	
6.3.	Methods and material for con	tainment and cleaning up
For conta	ainmont	· Avoid generating dust. Contain and collect as any colid
		: Avoid generating dust. Contain and collect as any solid.
	for cleaning up	: Minimize generation of dust. On land, sweep or shovel into suitable containers.
Methods 6.4.	for cleaning up Reference to other sections	
Methods 6.4. Section 1	for cleaning up Reference to other sections	: Minimize generation of dust. On land, sweep or shovel into suitable containers. 7: safe handling. Section 8: personal protective equipment.
Methods 6.4. Section 1	for cleaning up Reference to other sections 13: disposal information. Section ON 7: Handling and stora	: Minimize generation of dust. On land, sweep or shovel into suitable containers. 7: safe handling. Section 8: personal protective equipment.
Methods 6.4. Section 1 SECTIO 7.1.	for cleaning up Reference to other sections 13: disposal information. Section	: Minimize generation of dust. On land, sweep or shovel into suitable containers. 7: safe handling. Section 8: personal protective equipment.
Methods 6.4. Section 1 SECTIO 7.1. Precautio	for cleaning up Reference to other sections 13: disposal information. Section ON 7: Handling and stora Precautions for safe handling	 Minimize generation of dust. On land, sweep or shovel into suitable containers. 7: safe handling. Section 8: personal protective equipment. age Avoid breathing dust, fume. Obtain special instructions before use. Do not handle until all safety
Methods 6.4. Section 1 SECTIO 7.1. Precautio	for cleaning up Reference to other sections 13: disposal information. Section ON 7: Handling and stora Precautions for safe handling ons for safe handling measures	 Minimize generation of dust. On land, sweep or shovel into suitable containers. 7: safe handling. Section 8: personal protective equipment. age Avoid breathing dust, fume. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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

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**

.1. Control parameters			
Tempilstik® 600 °F (316 °C), 608 °F (320 °C)			
ACGIH	Not applicable		
OSHA	Not applicable	Not applicable	
Fluorescein (2321-07-5)	Fluorescein (2321-07-5)		
ACGIH	Not applicable		
OSHA	Not applicable		
formaldehyde (50-00-0)			
ACGIH	ACGIH Ceiling (mg/m³)	0.37 mg/m ³	
ACGIH	ACGIH Ceiling (ppm)	0.3 ppm	
ACGIH	Remark (ACGIH)	URT & eye irr; SEN; A2	
OSHA	OSHA PEL (TWA) (ppm)	0.75 ppm	
OSHA	OSHA PEL (STEL) (ppm)	2 ppm	
Canada (Quebec)	PLAFOND (mg/m³)	3 mg/m ³	
Canada (Quebec)	PLAFOND (ppm)	2 ppm	
Canada (Quebec)			
1,3,5-Triazine-2,4,6-triamine, polymer with formaldehyde, butylated (68002-25-5)			
ACGIH	Not applicable		
OSHA	Not applicable		

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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

Appearance: A solid crayon-like marker.Colour: Variable.Odour: odourless.Odour threshold: no data availablepH: No data availableRelative evaporation rate (butyl acetate=1): No data availableMelting point: No data availableFreezing point: No data availableBoiling point: No data availableFreezing point: No data availableFash point: No data availableParmability (solid, gas): No data availableVapour pressure: No data availableRelative density: No data availableSolubility: No data availableLog Pow: No data availableLog Kow: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data availableExplosive limits: No data availableVOC content: 0 %	Physical state	: Solid
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Odour threshold: No data availablepH: No data availableRelative evaporation rate (butyl acetate=1): No data availableMelting point: No data availableFreezing point: No data availableBoiling point: No data availableFreezing point: No data availableBoiling point: No data availableFlash point: No data availableAuto-ignition temperature: No data availableDecomposition temperature: No data availablePlammability (solid, gas): No data availableVapour pressure: No data availableRelative density: No data availableSolubility: No data availableLog Pow: No data availableLog Kow: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data availableOxidising properties: No data availableP.2. Other information	Colour	: Variable.
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Oxidising properties : No data available Explosive limits : No data available 9.2. Other information	Viscosity, dynamic	: No data available
Explosive limits : No data available 9.2. Other information	Explosive properties	: No data available
9.2. Other information	Oxidising properties	: No data available
	Explosive limits	: No data available
VOC content : 0 %		0.01
	VUC 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

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11.1. Information on toxicological effects Acute toxicity	: Oral: Harmful if swallowed.
Tempilstik® 600 °F (316 °C), 608 °F (320 °C)	
ATE CLP (oral)	674.303 mg/kg bodyweight
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 f	ormaldehyde, 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 s	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 eve contact

Likely routes of exposure : Inhalation;Skin and eye contact

SECTION 12:	Ecological	information
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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

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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 informa	tion
SECTION 14: Transport informa	tion
In accordance with DOT and TDG	
•	

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	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).

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15.3. US State regulations					
formaldehyde (50-00-0)					
U.S California - Proposition 65 - Carcinogens List Yes	U.S California - Proposition 65 - Developmental Toxicity No	U.S California - Proposition 65 - Reproductive Toxicity - Female No	U.S California - Proposition 65 - Reproductive Toxicity - Male No	No significance risk level (NSRL)	
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					

Indication of changes	: Original Document.
Data sources	: ACGIH (American Conference of Governement Industrial Hygienists).
	European Chemicals Agency (ECHA) C&L Inventory database. Accessed at <u>http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database</u> .
	Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition.
	National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition.
	OSHA 29CFR 1910.1200 Hazard Communication Standard.
	TSCA Chemical Substance Inventory. Accessed at http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html.
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
H226	Flammable liquid and vapour
H227	Combustible liquid
	•

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H301	Toxic if swallowed
H302	Harmful if swallowed
H311	Toxic in contact with skin
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H331	Toxic if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H350	May cause cancer

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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