

Safety Data Sheet

<sup>®</sup> Prepared in Accordance with HCS 29 C.F.R. 1910.1200

# 1. Identification of the Substance/Mixture and the Company/Undertaking

1.1	Product Identifier	NC27A1NL	Revision Date:	08/20/2021
	Product Name:	THERMO-LAG E100 S PART A	Supercedes Date:	08/21/2019
1.2	Relevant identified uses of the substance or mixture and uses advised against	Component of multicomponent industrial coatings - Industrial use.		
1.3	I.3 Details of the supplier of the safety data sheet			
	Manufacturer:	Carboline Company 2150 Schuetz Road St. Louis, MO USA 63146		
		Regulatory / Technical Information: Contact Carboline Technical Services at 1-800-848-4645		
	Datasheet Produced by:	Beebe, Hayli - regulatory@carboline.cor	n	
1.4	Emergency telephone number:	CHEMTREC 1-800-424-9300 (Inside US CHEMTREC +1 703 5273887 (Outside L HEALTH - Pittsburgh Poison Control 1-4	(S)	

# 2. Hazard Identification

## 2.1 Classification of the substance or mixture

Hazardous to the aquatic environment, Chronic, category 2 Eye Irritation, category 2 Flammable Liquid, category 3 Reproductive Toxicity, category 2 Skin Irritation, category 2 Skin Sensitizer, category 1

### 2.2 Label elements

### Symbol(s) of Product



Signal Word

Warning

### Named Chemicals on Label

MELAMINE, TOLUENE, ACRYLATE MONOMER, BISPHENOL A EPOXY RESIN

### HAZARD STATEMENTS

Flammable Liquid, category 3 Skin Irritation, category 2 Skin Sensitizer, category 1 Eye Irritation, category 2 Reproductive Toxicity, category 2 Hazardous to the aquatic environment, Chronic, category 2 <b>PRECAUTION PHRASES</b>	H226 H315 H317 H319 H361 H411	Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of damaging fertility or the unborn child. Toxic to aquatic life with long lasting effects.
	P210 P261 P273 P280 P284 P302+352 P305+351+338 P308+313	Keep away from heat/sparks/open flames/hot surfaces No smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/ face protection. Wear respiratory protection. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. IF exposed or concerned: Get medical advice/attention
	P333+313 P391 P403+233	If skin irritation or rash occurs: Get medical advice/attention. Collect spillage. Store in a well-ventilated place. Keep container tightly closed.

### 2.3 Other hazards

No Information

## Results of PBT and vPvB assessment:

The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

# 3. Composition/Information On Ingredients

### 3.2 Mixtures

Hazardous ingredients								
Name According to EEC	EINEC No.	CAS-No.	<u>%</u>	<b>Classifications</b>				
BISPHENOL A EPOXY RESIN	500-033-5	25068-38-6	25 - <50	H315-317-319-411				
MELAMINE PYROPHOSPHATE	239-590-1	15541-60-3	10 - <25	H319				

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MELAMINE	203-615-4	108-78-1	10 - <25	H361	Repr. 2
TITANIUM DIOXIDE	236-675-5	13463-67-7	2.5 - <10		
TOLUENE	203-625-9	108-88-3	2.5 - <10	H225-304-315-319-336-361-373	3
ACRYLATE MONOMER	239-701-3	15625-89-5	2.5 - <10	H315-317-319-335-400-410	

CAS-No.	M-Factors
25068-38-6	0
15541-60-3	0
108-78-1	0
13463-67-7	0
108-88-3	0
15625-89-5	0
Remarks:	CAS No. 25068-38-6 identified as CAS No. 1675-54-3, EC No. 216-823-5 under REACH Registration

Additional Information: The text for GHS Hazard Statements shown above (if any) is given in Section 16.

## 4. First-aid Measures

### 4.1 Description of First Aid Measures

**AFTER INHALATION:** Give oxygen or artificial respiration if needed. Remove person to fresh air. If signs/symptoms continue, get medical attention.

**AFTER SKIN CONTACT:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. If skin irritation persists, call a physician.

AFTER EYE CONTACT: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**AFTER INGESTION:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If swallowed, call a poison control centre or doctor immediately.

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

Harmful if swallowed. Irritating to eyes and skin. Risk of serious damage to the lungs (by aspiration). Vapours may cause drowsiness and dizziness. Toxic to aquatic organisms.

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

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11. When symptoms persist or in all cases of doubt seek medical advice.

## 5. Fire-fighting Measures

#### 5.1 Extinguishing Media:

Carbon Dioxide, Dry Chemical, Foam, Water Fog

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Flammable liquid. Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Vapors may travel to areas away from work site before igniting/flashing back to vapor source. Provide adequate ventilation. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Electrical installations / working materials must comply with the technological safety standards. Wear shoes with conductive soles.

### FOR SAFETY REASONS NOT TO BE USED: No Information

- 5.2 Special hazards arising from the substance or mixture No Information
- 5.3 Advice for firefighters

SPECIAL FIREFIGHTING PROCEDURES: In the event of fire, wear self-contained breathing apparatus. Cool containers / tanks with water spray. Flammable.

SPECIAL FIREFIGHTING PROTECTION EQUIPMENT: No Information

### 6. Accidental Release Measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Wear personal protective equipment. For personal protection see section 8.

#### 6.2 Environmental precautions

Do not allow material to contaminate ground water system. Prevent product from entering drains.

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

Prevent further leakage or spillage if safe to do so. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

#### 6.4 Reference to other sections

No Information

## 7. Handling and Storage

#### 7.1 Precautions for safe handling

**INSTRUCTIONS FOR SAFE HANDLING :** Keep containers dry and tightly closed to avoid moisture absorption and contamination. Prepare the working solution as given on the label(s) and/or the user instructions. Do not breathe vapours or spray mist. Ensure all equipment is electrically grounded before beginning transfer operations. Do not use sparking tools. Do not get in eyes, on skin, or on clothing. Use only with adequate ventilation/personal protection. Wash thoroughly after handling.

**PROTECTION AND HYGIENE MEASURES :** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke.

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

CONDITIONS TO AVOID: Heat, flames and sparks. STORAGE CONDITIONS: Keep container closed when not in use. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.

#### 7.3 Specific end use(s)

No specific advice for end use available.

## 8. Exposure Controls/Personal Protection

### 8.1 Control parameters

Ingredients with Occupational Exposure Limits (US)

Name	CAS-No.	ACGIH TWA	ACGIH STEL	ACGIH Ceiling
<b>BISPHENOL A EPOXY RESIN</b>	25068-38-6	N/E	N/E	N/E
MELAMINE PYROPHOSPHATE	15541-60-3	N/E	N/E	N/E
MELAMINE	108-78-1	N/E	N/E	N/E
TITANIUM DIOXIDE	13463-67-7	10 mg/m3	N/E	N/E
TOLUENE	108-88-3	20 PPM	N/E	N/E
ACRYLATE MONOMER	15625-89-5	N/E	N/E	N/E

Name	CAS-No.	<u>OSHA PEL</u>	<u>OSHA STEL</u>
BISPHENOL A EPOXY RESIN	25068-38-6	N/E	N/E
MELAMINE PYROPHOSPHATE	15541-60-3	N/E	N/E
MELAMINE	108-78-1	N/E	N/E
TITANIUM DIOXIDE	13463-67-7	15 MGM3	N/E
TOLUENE	108-88-3	200 ppm	560 MGM3, 150 PPM
ACRYLATE MONOMER	15625-89-5	N/E	N/E

**FURTHER ADVICE:** Refer to the regulatory exposure limits for the workforce enforced in each country. Some components may not have been classified under the EU CLP Regulation.

#### 8.2 Exposure controls

### Personal Protection

**RESPIRATORY PROTECTION:** In order to avoid inhalation of spray-mist and sanding dust, all spraying and sanding must be done wearing adequate respirator. Use only with ventilation to keep levels below exposure guidelines reported in this document. User should test and monitor exposure levels to ensure all personnel are below guidelines. If not sure, or not able to monitor, use State or federally approved supplied air respirator. For silica containing coatings in a liquid state, and/or if no exposure limits are established above, air-supplied respirators are generally not required.

#### EYE PROTECTION: Safety glasses with side-shields.

**HAND PROTECTION:** Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Impervious gloves. Request information on glove permeation properties from the glove supplier. Lightweight protective clothing

**OTHER PROTECTIVE EQUIPMENT:** Ensure that eyewash stations and safety showers are close to the workstation location. **ENGINEERING CONTROLS:** Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas.

## 9. Physical and Chemical Properties

9.1	Information on basic physical and chemical properties Appearance:	s Viscous, White Liquid
	Physical State	Liquid
	Odor	Ероху
	Odor threshold	N/D
	рН	N/D
	Melting point / freezing point (°C)	N/D
	Boiling point/range (°C)	201 F (94 C) - 601 F (316 C)
	Flash Point (°C)	95F (35C)
	Evaporation rate	Slower Than Ether
	Flammability (solid, gas)	Not determined
	Upper/lower flammability or explosive limits	1.1 - 12.7

	Vapour Pressure, mmHg	N/D
	Vapour density	Heavier than Air
	Relative density	Not determined
	Solubility in / Miscibility with water	N/D
	Partition coefficient: n-octanol/water	Not determined
	Auto-ignition temperature (°C)	Not determined
	Decomposition temperature (°C)	Not determined
	Viscosity	Unknown
	Explosive properties	Not determined
	Oxidising properties	Not determined
9.2	Other information	
	VOC Content g/l:	64
	Specific Gravity (g/cm3)	1.399

# 10. Stability and Reactivity

#### 10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

### 10.2 Chemical stability

Stable under normal conditions.

## **10.3 Possibility of hazardous reactions** Hazardous polymerisation does not occur.

# 10.4 Conditions to avoid

Heat, flames and sparks.

## 10.5 Incompatible materials

Strong oxidizing agents.

# 10.6 Hazardous decomposition products

Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.

# 11. Toxicological Information

11.1	Information on toxicological effe	ects
	Acute Toxicity:	
	Oral LD50:	N/D
	Inhalation LC50:	N/D
	Irritation:	Eye Irritation and Skin Irritation, category 2
	Corrosivity:	Unknown
	Sensitization:	Skin Sensitizer, category 1
	Repeated dose toxicity:	Unknown
	Carcinogenicity:	Unknown
	Mutagenicity:	Unknown
	Toxicity for reproduction:	Reproductive Toxicity, category 2
	STOT-single exposure:	Unknown
	STOT-repeated exposure:	Unknown
	Aspiration hazard:	Unknown

If no information is available above under Acute Toxicity then the acute effects of this product have not been tested. Data on individual components are tabulated below:

<u>CAS-No.</u>	Chemical Name	Oral LD50	Dermal LD50	Vapor LC50	Gas LC50	<u>Dust/Mist</u> LC50
25068-38-6	BISPHENOL A EPOXY RESIN	11400 mg/kg, rat, oral	23000 mg/kg, dermal, rabbit	>20 mL/kg skin, sensitizer		
15541-60-3	MELAMINE PYROPHOSPHATE	>5000 mg/kg, oral, rat		Not Available	0.000	0.000
108-78-1	MELAMINE	3161 mg/kg, oral, rat	Not Available	3248 mg/m3 8 Hr, Inh, Rat	0.000	0.000
13463-67-7	TITANIUM DIOXIDE	25000 mg/kg, oral (rat)	Not Available	Not Available	No Information	No Information
108-88-3	TOLUENE	5000 mg/kg rat oral	12267 mg/kg, dermal, rabbit	8000 ppm/4 hrs, rat, inhalation	0.000	0.000
15625-89-5	ACRYLATE MONOMER	5000 mg/kg, oral, rat	5170 mg/kg, dermal, rabbit	Not Available	0.000	0.000

### Additional Information:

No Information

12.	Ecol	ogical Information				
12.1	12.1 Toxicity:					
	EC	50 48hr (Daphnia):	Unkno	wn		
	IC5	0 72hr (Algae):	Unkno	wn		
	LC	50 96hr (fish):	Unkno	wn		
12.2	Persis	tence and degradability:	Unkno	wn		
12.3	Bioaco	cumulative potential:	Unkno	wn		
12.4 Mobility in soil:		Unknown				
12.5 Results of PBT and vPvB assessment:		The pro	oduct does not meet the	e criteria for PBT/VPv	B in accordance with Annex XIII.	
12.6	Other	adverse effects:	Unkno	wn		
<u>CAS-I</u>	<u>No.</u>	Chemical Name		<u>EC50 48hr</u>	<u>IC50 72hr</u>	<u>LC50 96hr</u>
25068	3-38-6	<b>BISPHENOL A EPOXY RESIN</b>		2.1 mg/l (daphnia)	11 mg/l (algae)	1.3 mg/l (fish)
15541	1-60-3	MELAMINE PYROPHOSPHATE		No information	No information	No information
108-7	8-1	MELAMINE		No information	No information	No information
13463	3-67-7	TITANIUM DIOXIDE		No information	No information	No information
108-8	8-3	TOLUENE		6 mg/l (Daphnia magna)	12.5 mg/L (Algae)	5.8 mg/L (Fish)
15625	5-89-5	ACRYLATE MONOMER		No information	No information	No information

# 13. Disposal Considerations

**13.1** WASTE TREATMENT METHODS: Do not burn, or use a cutting torch on, the empty drum. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. Transport Information

14.1	UN number	UN1263
14.2	UN proper shipping name	Paint
	Technical name	N/A
14.3	Transport hazard class(es)	3
	Subsidiary shipping hazard	N/A
14.4	Packing group	Ш
14.5	Environmental hazards	Marine Pollutant: Yes (Epoxy Resin)
14.6	Special precautions for user	Unknown
	EmS-No.:	F-E, S-E
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code	Unknown

# 15. Regulatory Information

<sup>15.1</sup> Safety, health and environmental regulations/legislation for the substance or mixture:

# U.S. Federal Regulations: As follows -

#### **CERCLA - Sara Hazard Category**

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Flammable (gases, aerosols, liquids, or solids), Reproductive toxicity, Skin Corrosion or Irritation, Respiratory or Skin Sensitization, Serious eye damage or eye irritation

#### Sara Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	CAS-No.	<u>%</u>
TOLUENE	108-88-3	4.56

#### Toxic Substances Control Act:

All components of this product are either listed on the TSCA Inventory or are exempt.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

#### No TSCA 12(b) components exist in this product.

## U.S. State Regulations: As follows -

#### New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product.

Chemical Name	CAS-No.
PENTAERYTHRITOL	115-77-5
Pennsylvania Right-To-Know	

The following non-hazardous ingredients are present in the product at greater than 3%.

Chemical Name	<u>CAS-No.</u>
PENTAERYTHRITOL	115-77-5
CALIFORNIA PROPOSITION 65	

WARNING: Cancer and Reproductive Harm -- www.P65Warnings.ca.gov

## International Regulations: As follows -

#### \* Canadian DSL:

All chemical ingredients included on inventory (DSL)

### 15.2 Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## 16. Other Information

Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
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#### **Reasons for revision**

No Information

The information contained herein is, to the best of our knowledge and belief accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.