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

1.1. Product identifier
Product form : Mixture
Trade name : Thermo-Prime Acrylic Roof Primer
Product code : Thermo-Prime

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture : Single component water soluble, acrylic primer that promotes adhesion of spray-in-place polyurethane foam to a variety of roofing substrates.
Use of the substance/mixture : For professional use only

1.3. Details of the supplier of the safety data sheet
Lapolla Industries, Inc.
15402 Vantage Parkway East, Ste. 322
Houston, Texas 77032
Tel: +1 281 219 4100 , (877) 636-2648
Email: sds@lapolla.com

1.4. Emergency telephone number
Emergency number : CARECHEM (866) 928-0789

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
GHS-US classification
Skin Irrit. 2 H315
Eye Irrit. 2A H319
Skin Sens. 1 H317

2.2. Label elements
GHS-US labelling
Hazard pictograms (GHS-US) :

Signal word (GHS-US) : Warning
Hazard statements (GHS-US) : H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
Precautionary statements (GHS-US) : P261 - Avoid breathing mist, spray, vapours, fume, gas, dust
P264 - Wash hands thoroughly after handling
P272 - Contaminated work clothing must not be allowed out of the workplace
P280 - Wear eye protection, protective clothing, protective gloves
P302+P352 - If on skin: Wash with plenty of water
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P321 - Specific treatment (see on this label)
P332+P313 - If skin irritation occurs: Get medical advice/attention
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
P337+P313 - If eye irritation persists: get medical advice/attention
P362 - Take off contaminated clothing and wash before reuse
P362+P364 - Take off contaminated clothing and wash it before reuse
P501 - Dispose of contents/container to comply with applicable local, national and international regulation.

2.3. Other hazards
other hazards which do not result in classification : Spilled material may present a slipping hazard. Spills may cause collapse or fall.
Thermo-Prime Acrylic Roof Primer
Safety Data Sheet
according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

2.4.  Unknown acute toxicity (GHS-US)
No data available

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>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonia</td>
<td>(CAS No) 7664-41-7</td>
<td>&lt; 1</td>
<td>Flam. Gas 2, H221, Acute Tox. 3 (Inhalation:gas), H331 Skin Corr. 1B, H314</td>
</tr>
<tr>
<td>hydroxyethylcellulose</td>
<td>(CAS No) 9004-62-0</td>
<td>&lt; 1</td>
<td>Skin Irrit. 2, H315, Eye Irrit. 2A, H319, STOT SE 3, H335</td>
</tr>
<tr>
<td>3(2H)-isothiazolone, 4,5-dichloro-2-octyl-</td>
<td>(CAS No) 64359-81-5</td>
<td>&lt;0.3</td>
<td>Skin Corr. 1B, H314, Eye Dam. 1, H318, Skin Sens. 1, H317</td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

4.1.  Description of first aid measures

First-aid measures general : In all cases of doubt, or when symptoms persist, seek medical attention.
First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get immediate medical advice/attention.
First-aid measures after skin contact : Remove contaminated clothing and shoes. Wash hands with water and soap. Seek medical attention if irritation develops.
First-aid measures after eye contact : In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately get medical attention.
First-aid measures after ingestion : If swallowed, rinse mouth with water (only if the person is conscious). Immediately call a POISON CENTER or doctor/physician. Give water to drink if victim completely conscious/alert. Never give anything by mouth to an unconscious person.

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

Symptoms/injuries after inhalation : Inhalation of mist or aerosol may cause irritation to nose and throat. In case of repeated or prolonged exposure: Lungs irritation, Dizziness, headaches, nausea.
Symptoms/injuries after skin contact : May cause an allergic skin reaction. Causes skin irritation.
Symptoms/injuries after eye contact : Causes serious eye irritation. Symptoms include stinging, watering, redness, and swelling.

4.3.  Indication of any immediate medical attention and special treatment needed
No additional information available

SECTION 5: Firefighting measures

5.1.  Extinguishing media
Suitable extinguishing media : Carbon dioxide (CO2), water spray, dry chemical powder. Foam.
Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

5.2.  Special hazards arising from the substance or mixture
No additional information available

5.3.  Advice for firefighters
Firefighting instructions : Exercise caution when fighting any chemical fire.
Protective equipment for firefighters : Wear proper protective equipment. Wear a self contained breathing apparatus.
Other information : Prevent entry to sewers and public waters. Material can splatter above 100° C (212° F). Dried product can burn.

SECTION 6: Accidental release measures

6.1.  Personal precautions, protective equipment and emergency procedures
General measures : Ensure adequate ventilation. The vapour is heavier than air; beware of pits and confined spaces. Spilled material may present a slipping hazard. Stop leak if safe to do so. No action shall be taken involving any personal risk or without suitable training.
6.1.1. For non-emergency personnel
Protective equipment : Wear suitable protective clothing. Refer to section 8.

6.1.2. For emergency responders
Protective equipment : Equip cleanup crew with proper protection.
Emergency procedures : Evacuate unnecessary personnel.

6.2. Environmental precautions
Do not discharge into drains or the environment. Relevant water authorities should be notified of any large spillage to water course or drain.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up : Wear proper protective equipment. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Collect all waste in suitable and labelled containers and dispose according to local legislation. Avoid static electricity discharges. Store away from other materials. Dispose of contents/container to comply with applicable local, national and international regulations.

6.4. Reference to other sections
For further information refer to section 8: Exposure-controls/personal protection. For disposal of residues refer to section 13: Disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling : Obtain special instructions before use. Use only in well-ventilated areas. Avoid all eye and skin contact and do not breathe vapour and mist. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container closed when not in use. Take precautionary measures against static discharge. Ensure adequate ventilation.

Hygiene measures : Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practices. Wash exposed skin thoroughly with soap and water after handling.

7.2. Conditions for safe storage, including any incompatibilities
Technical measures : Provide adequate ventilation. A washing facility/water for eye and skin cleaning purposes should be present.

Storage conditions : Keep out of reach of children. Keep container tightly closed in a cool place. Keep only in the original container in a cool, well-ventilated place away from highly flammable substances. Store away from direct sunlight or other heat sources.

Avoid Freezing. PROTECT FROM FREEZING DURING SHIPMENT AND STORAGE.

Do not store material at temperatures below 50 °F (10 °C).


Storage temperature : The minimum recommended storage temperature for this material is between 55 °F (13 °C) and 90 °F (32 °C). Keep from freezing, material may coagulate.

7.3. Specific end use(s)
No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Ammonia (7664-41-7)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>USA ACGIH</td>
<td>ACGIH TWA (ppm)</td>
</tr>
<tr>
<td>USA ACGIH</td>
<td>ACGIH STEL (ppm)</td>
</tr>
<tr>
<td>USA OSHA</td>
<td>OSHA PEL (TWA) (mg/m³)</td>
</tr>
<tr>
<td>USA OSHA</td>
<td>OSHA PEL (TWA) (ppm)</td>
</tr>
</tbody>
</table>

8.2. Exposure controls
Appropriate engineering controls : Provide adequate ventilation. Provide local exhaust or general room ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Thermo-Prime Acrylic Roof Primer
Safety Data Sheet
according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

Personal protective equipment: An approved organic vapour respirator/supplied air or self-contained breathing apparatus must be used when vapour concentration exceeds applicable exposure limits. Protective goggles. Gloves. Protective clothing. For certain operations, additional Personal Protection Equipment (PPE) may be required. Respiratory protection of the dependent type.

Hand protection: Wear protective gloves. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Eye protection: Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles. Contact lenses should not be worn.

Skin and body protection: Long sleeved protective clothing. Personal protective clothing should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling.

Respiratory protection: An approved organic vapour respirator/supplied air or self-contained breathing apparatus must be used when vapour concentration exceeds applicable exposure limits. Use an approved air purifying respirator equipped with an ammonia/methylamine cartridge. Respirators should be used in accordance with OSHA requirements (29 CFR 1910.134).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid
Colour: White or colors
Odour: Slight odour
Odour threshold: No data available
pH: 8.5 - 9.5
Relative evaporation rate (butyl acetate=1): No data available
Melting point: No data available
Freezing point: No data available
Boiling point: 100 °C (212 °F)
Flash point: < 96 °C (205 °F)
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: Heavier than air
Relative density: No data available
Density: 1.45 - 1.47 Specific Gravity
Solubility: soluble in water. Water: Soluble
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: 6.5 g/l (0.05 lb/gal)

SECTION 10: Stability and reactivity

10.1. Reactivity
No additional information available
Thermo-Prime Acrylic Roof Primer
Safety Data Sheet
according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

10.2. Chemical stability
Stable at normal conditions.

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

10.4. Conditions to avoid
Avoid freezing. Heat, open flame, sparks, hot surfaces, ignition sources, elevated temperature. Avoid exposure to temperatures above 150 °F (65.6 °C). May emit toxic materials when heated to 350 °F (177 °C) or above.

10.5. Incompatible materials

10.6. Hazardous decomposition products
Hazardous combustion products are Carbon dioxide, carbon monoxide, smoke, fumes, unburned hydrocarbons and oxides of sulfur, phosphorus, zinc and/or nitrogen.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

<table>
<thead>
<tr>
<th>Acute toxicity</th>
<th>Not classified</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ammonia (7664-41-7)</strong></td>
<td></td>
</tr>
<tr>
<td>LD50 oral rat</td>
<td>350 mg/kg</td>
</tr>
<tr>
<td>LC50 inhalation rat (ppm)</td>
<td>2000 ppm/4h</td>
</tr>
<tr>
<td>ATE US (oral)</td>
<td>350.00000000 mg/kg bodyweight</td>
</tr>
<tr>
<td>ATE US (gases)</td>
<td>2000.00000000 ppmv/4h</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Causes skin irritation. pH: 8.5 - 9.5</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Causes serious eye irritation. pH: 8.5 - 9.5</td>
</tr>
<tr>
<td>Respiratory or skin sensitisation</td>
<td>May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified Based on available data, the classification criteria are not met</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not classified Based on available data, the classification criteria are not met</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Not classified Based on available data, the classification criteria are not met</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Not classified Based on available data, the classification criteria are not met</td>
</tr>
<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
<td>Not classified Based on available data, the classification criteria are not met</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not classified Based on available data, the classification criteria are not met</td>
</tr>
<tr>
<td>Symptoms/injuries after inhalation</td>
<td>Inhalation of mist or aerosol may cause irritation to nose and throat. In case of repeated or prolonged exposure: Lungs irritation. Dizziness, headaches, nausea.</td>
</tr>
<tr>
<td>Symptoms/injuries after skin contact</td>
<td>May cause an allergic skin reaction. Causes skin irritation.</td>
</tr>
<tr>
<td>Symptoms/injuries after eye contact</td>
<td>Causes serious eye irritation. Symptoms include stinging, watering, redness, and swelling.</td>
</tr>
<tr>
<td>Symptoms/injuries after ingestion</td>
<td>Abdominal pain, nausea. Vomiting.</td>
</tr>
</tbody>
</table>

SECTION 12: Ecological information

12.1. Toxicity

<table>
<thead>
<tr>
<th>Ammonia (7664-41-7)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fishes 1</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
</tr>
<tr>
<td>LC50 fish 2</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability
No additional information available
12.3. Bioaccumulative potential

Ammonia (7664-41-7)

| Log Pow | -1.14 (at 25 °C) |

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other adverse effects: Prevent entry to sewers and public waters.
Effect on ozone layer: No additional information available
Effect on the global warming: No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations: Dispose of contents/container to comply with applicable local, national and international regulations. Consult the appropriate authorities about waste disposal.
Additional information: Do not re-use empty containers. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose containers to flames, sparks, heat, or other potential ignition sources.
Ecology - waste materials: Avoid release to the environment. Do not allow into drains or water courses.

SECTION 14: Transport information

In accordance with DOT
Not regulated for transport

Additional information
Other information: No supplementary information available.

ADR
Transport document description: No additional information available

Transport by sea
No additional information available
Air transport
No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations
Ammonia (7664-41-7)

| Listed on the United States TSCA (Toxic Substances Control Act) inventory |
| Listed on the United States SARA Section 302 |
| Listed on United States SARA Section 313 |

| RQ (Reportable quantity, section 304 of EPA’s List of Lists) | 100 lb |
| SARA Section 302 Threshold Planning Quantity (TPQ) | 500 |
| SARA Section 313 - Emission Reporting | 1.0 % (includes anhydrous Ammonia and aqueous Ammonia from water dissociable Ammonium salts and other sources, 10% of total aqueous Ammonia is reportable under this listing) |

15.2. International regulations
CANADA

Ammonia (7664-41-7)

<table>
<thead>
<tr>
<th>WHMIS Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class A - Compressed Gas</td>
</tr>
<tr>
<td>Class B Division 1 - Flammable Gas</td>
</tr>
<tr>
<td>Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects</td>
</tr>
<tr>
<td>Class E - Corrosive Material</td>
</tr>
</tbody>
</table>

11/13/2014 EN (English)
# Thermo-Prime Acrylic Roof Primer

## Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

<table>
<thead>
<tr>
<th>hydroxyethylcellulose (9004-62-0)</th>
<th>Listed on the Canadian DSL (Domestic Substances List)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>WHMIS Classification</strong></td>
<td>Uncontrolled product according to WHMIS classification criteria</td>
</tr>
</tbody>
</table>

### EU-Regulations

**Ammonia (7664-41-7)**

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

No additional information available

**Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]**

No additional information available

### 15.2. National regulations

**Ammonia (7664-41-7)**

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Japanese Poisonous and Deleterious Substances Control Law

Listed on the Canadian IDL (Ingredient Disclosure List)

### 15.3. US State regulations

No additional information available

---

## SECTION 16: Other information

**Indication of changes**

3. Composition/information on ingredients. 2.1. Classification of the substance or mixture. according to the federal final rule of hazard communication revised on 2012 (HazCom 2012).

**Revision date**

11/13/2014 12:00:00 AM

**Sources of Key data**

SDS - Safety Data Sheet.

**Other information**

None.

### Full text of H-phrases: see section 16:

<table>
<thead>
<tr>
<th>Acute Tox. 3 (Inhalation:gas)</th>
<th>Acute toxicity (inhalation:gas) Category 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Dam. 1</td>
<td>Serious eye damage/eye irritation, Category 1</td>
</tr>
<tr>
<td>Eye Irrit. 2A</td>
<td>Serious eye damage/eye irritation, Category 2A</td>
</tr>
<tr>
<td>Flam. Gas 2</td>
<td>Flammable gases, Category 2</td>
</tr>
<tr>
<td>Skin Corr. 1B</td>
<td>Skin corrosion/irritation Category 1B</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
<td>Skin corrosion/irritation Category 2</td>
</tr>
<tr>
<td>Skin Sens. 1</td>
<td>Sensitisation — Skin, category 1</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>Specific target organ toxicity (single exposure) Category 3</td>
</tr>
<tr>
<td>H221</td>
<td>Flammable gas</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>
</tbody>
</table>

SDS US (GHS HazCom 2012)

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