

# TF 1500 HT – Thermo-Flex Acrylic Roof Coating

## Safety Data Sheet

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

Date of issue: 06/22/2015

Version: 1.0

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

#### 1.1. Product identifier

Product form : Mixture  
 Trade name : TF 1500 HT – Thermo-Flex Acrylic Roof Coating  
 Product code : TF 1500 HT Series

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Protective coating over polyurethane foam

#### 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 Sens. 1 H317  
 Carc. 2 H351

Full text of H-statements: see section 16

#### 2.2. Label elements

##### GHS-US labelling

Hazard pictograms (GHS-US) :



GHS07

GHS08

Signal word (GHS-US) : Warning  
 Hazard statements (GHS-US) : H317 - May cause an allergic skin reaction  
 H351 - Suspected of causing cancer  
 Precautionary statements (GHS-US) : P201 - Obtain special instructions before use  
 P202 - Do not handle until all safety precautions have been read and understood  
 P261 - Avoid breathing vapours, mist, spray  
 P272 - Contaminated work clothing must not be allowed out of the workplace  
 P280 - Wear eye protection, protective gloves  
 P302+P352 - If on skin: Wash with plenty of water  
 P308+P313 - If exposed or concerned: Get medical advice/attention  
 P333+P313 - If skin irritation or rash occurs: 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 comply with applicable local, national and international regulation.

#### 2.3. Other hazards

other hazards which do not result in classification : May cause eye irritation. May cause irritation to the respiratory tract.

#### 2.4. Unknown acute toxicity (GHS-US)

Not applicable

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

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### 3.2. Mixture

| Name  | Product identifier  | %           | GHS-US classification  |
|---|---------------------|-------------|--|
| Titanium dioxide                              | (CAS No) 13463-67-7 | 1 - 8       | Carc. 2, H351  |
| octhlinone (ISO), 2-octyl-2H-isothiazol-3-one | (CAS No) 26530-20-1 | 0,04 - 0,24 | Acute Tox. 4 (Oral), H302<br>Acute Tox. 3 (Dermal), H311<br>Acute Tox. 3 (Inhalation), H331<br>Skin Corr. 1B, H314<br>Skin Sens. 1, H317 |
| Benzophenone                                  | (CAS No) 119-61-9   | 0,05 - 0,17 | Comb. Dust, H232<br>Carc. 2, H351<br>STOT RE 2, H373   |

Full text of H-statements: 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. If you feel unwell, seek medical advice (show the label where possible). Suspected of causing cancer.
- First-aid measures after inhalation : Allow breathing of fresh air. Allow the victim to rest.
- First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. 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 immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

- Symptoms/injuries after inhalation : Inhalation may cause irritation, cough, short breathing.
- Symptoms/injuries after skin contact : May cause moderate irritation. This product contains small amounts of an ingredient which has been reported to cause skin sensitization reactions in humans and guinea pigs. May cause an allergic skin reaction.
- Symptoms/injuries after eye contact : May cause moderate irritation, including burning sensation, tearing, redness or swelling.
- Symptoms/injuries after ingestion : Abdominal pain, nausea.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : Material can splatter above 100° C (212° F). Dried product can burn. On combustion forms: Carbon dioxide. Carbon monoxide. Silicon oxides.
- Explosion hazard : No direct explosion hazard.
- Reactivity : No dangerous reactions known under normal conditions of use.

### 5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protective equipment for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

- Protective equipment : Wear protective clothing as described in Section 8 of this safety data sheet.
- Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection. For further information refer to section 8 : Exposure-controls/personal protection.
- Emergency procedures : Ventilate area.

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### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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

- For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

### 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 : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Avoid breathing vapours, spray, mist. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
- Hygiene measures : 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 : Protect from freezing. Store in a dry, cool and well-ventilated place. Keep container closed when not in use.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| Titanium dioxide (13463-67-7) |                                     |                      |
|-------------------------------|-------------------------------------|----------------------|
| ACGIH                         | ACGIH TWA (mg/m <sup>3</sup> )      | 1 mg/m <sup>3</sup>  |
| ACGIH                         | Remark (ACGIH)                      | LRT irr; A3          |
| OSHA                          | OSHA PEL (TWA) (mg/m <sup>3</sup> ) | 15 mg/m <sup>3</sup> |

### 8.2. Exposure controls

- Appropriate engineering controls : Use local exhaust ventilation with a minimum capture velocity of 100 ft/min at the point of vapour evolution.
- Personal protective equipment : Avoid all unnecessary exposure. Protective goggles. Gloves.



- Hand protection : Wear suitable gloves resistant to chemical penetration.
- Eye protection : Chemical goggles or safety glasses. 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.
- Respiratory protection : Wear appropriate mask. If the occupational exposure limit is exceeded: Wear a NIOSH approved amine and ammonia respiratory cartridge or NIOSH approved air supplied breathing equipment.
- Other information : Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Colour : white
- Odour : characteristic
- Odour threshold : No data available

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|   |   |                   |
|---|---|-------------------|
| pH  | : | 8,5 - 9,5         |
| Melting point                               | : | No data available |
| Freezing point                              | : | No data available |
| Boiling point                               | : | 212 °F            |
| Flash point                                 | : | 240 °F            |
| Relative evaporation rate (butyl acetate=1) | : | No data available |
| Flammability (solid, gas)                   | : | No data available |
| Explosive limits                            | : | No data available |
| Explosive properties                        | : | No data available |
| Oxidising properties                        | : | No data available |
| Vapour pressure                             | : | No data available |
| Relative density                            | : | No data available |
| Relative vapour density at 20 °C            | : | No data available |
| Density                                     | : | 1,44              |
| Solubility                                  | : | Water: Soluble    |
| Log Pow                                     | : | No data available |
| Log Kow                                     | : | No data available |
| Auto-ignition temperature                   | : | No data available |
| Decomposition temperature                   | : | No data available |
| Viscosity                                   | : | No data available |
| Viscosity, kinematic                        | : | No data available |
| Viscosity, dynamic                          | : | No data available |

### 9.2. Other information

VOC content : 20,1 g/l

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

### 10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use. Hazardous polymerization will not occur.

### 10.3. Possibility of hazardous reactions

None known.

### 10.4. Conditions to avoid

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

No additional information available

### 10.6. Hazardous decomposition products

On combustion, forms: Carbon monoxide. Carbon dioxide. Silicon oxides.

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Likely routes of exposure : Ingestion; Inhalation; Skin and eye contact  
Acute toxicity : Not classified  
(Based on available data, the classification criteria are not met)

| <b>octhlinone (ISO), 2-octyl-2H-isothiazol-3-one (26530-20-1)</b> |                          |
|---|--------------------------|
| ATE US (oral)   | 500,000 mg/kg bodyweight |
| ATE US (dermal)   | 300,000 mg/kg bodyweight |
| ATE US (gases)  | 700,000 ppmv/4h          |
| ATE US (vapours)  | 3,000 mg/l/4h            |
| ATE US (dust, mist)   | 0,500 mg/l/4h            |

| <b>Titanium dioxide (13463-67-7)</b> |               |
|--------------------------------------|---------------|
| LD50 dermal rat                      | > 10000 mg/kg |

| <b>Benzophenone (119-61-9)</b> |                           |
|--------------------------------|---------------------------|
| LD50 oral rat                  | > 10 g/kg                 |
| LD50 dermal rabbit             | 3535 mg/kg                |
| ATE US (dermal)                | 3535,000 mg/kg bodyweight |

Skin corrosion/irritation : Not classified  
(Based on available data, the classification criteria are not met)  
pH: 8,5 - 9,5  
Serious eye damage/irritation : Not classified  
(Based on available data, the classification criteria are not met)  
pH: 8,5 - 9,5  
Respiratory or skin sensitisation : May cause an allergic skin reaction.  
Germ cell mutagenicity : Not classified  
(Based on available data, the classification criteria are not met)  
Carcinogenicity : Suspected of causing cancer.

| <b>Titanium dioxide (13463-67-7)</b>         |                                      |
|--|--------------------------------------|
| IARC group                                   | 2B - Possibly carcinogenic to humans |
| In OSHA Hazard Communication Carcinogen list | Yes                                  |

| <b>Benzophenone (119-61-9)</b>               |                                      |
|--|--------------------------------------|
| IARC group                                   | 2B - Possibly carcinogenic to humans |
| National Toxicology Program (NTP) Status     | 1 - Evidence of Carcinogenicity      |
| In OSHA Hazard Communication Carcinogen list | Yes                                  |

Reproductive toxicity : Not classified  
(Based on available data, the classification criteria are not met)  
Specific target organ toxicity (single exposure) : Not classified  
(Based on available data, the classification criteria are not met)  
Specific target organ toxicity (repeated exposure) : Not classified  
(Based on available data, the classification criteria are not met)  
Aspiration hazard : Not classified  
(Based on available data, the classification criteria are not met)  
Symptoms/injuries after inhalation : Inhalation may cause irritation, cough, short breathing.  
Symptoms/injuries after skin contact : May cause moderate irritation. This product contains small amounts of an ingredient which has been reported to cause skin sensitization reactions in humans and guinea pigs. May cause an allergic skin reaction.  
Symptoms/injuries after eye contact : May cause moderate irritation, including burning sensation, tearing, redness or swelling.  
Symptoms/injuries after ingestion : Abdominal pain, nausea.

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### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : Mixture not tested.

#### Benzophenone (119-61-9)

|             |  |
|-------------|--|
| LC50 fish 1 | 13,2 - 15,3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
|-------------|--|

#### 12.2. Persistence and degradability

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|                               |                  |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |
|-------------------------------|------------------|

#### 12.3. Bioaccumulative potential

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|                           |                  |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |
|---------------------------|------------------|

#### Benzophenone (119-61-9)

|            |           |
|------------|-----------|
| BCF fish 1 | 3,4 - 9,2 |
|------------|-----------|

|         |      |
|---------|------|
| Log Pow | 3,58 |
|---------|------|

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Effect on ozone layer : No additional information available

Effect on the global warming : No additional information available

Other information : Avoid release to the environment.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

### SECTION 14: Transport information

#### Department of Transportation (DOT)

In accordance with DOT

Not regulated for transport

#### Additional information

Other information : No supplementary information available.

#### ADR

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

#### Titanium dioxide (13463-67-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Benzophenone (119-61-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

|                          |  |
|--------------------------|--|
| EPA TSCA Regulatory Flag | T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA. |
|--------------------------|--|

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### 15.2. International regulations

#### CANADA

No additional information available

#### Titanium dioxide (13463-67-7)

Listed on the Canadian DSL (Domestic Substances List)

|                      |  |
|----------------------|--|
| WHMIS Classification | Class D Division 2 Subdivision A - Very toxic material causing other toxic effects |
|----------------------|--|

#### Benzophenone (119-61-9)

Listed on the Canadian DSL (Domestic Substances List)

#### EU-Regulations

No additional information available

#### Titanium dioxide (13463-67-7)

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

#### Benzophenone (119-61-9)

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

#### National regulations

#### Titanium dioxide (13463-67-7)

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)

#### Benzophenone (119-61-9)

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 Pollutant Release and Transfer Register Law (PRTR Law)

### 15.3. US State regulations

#### Titanium dioxide (13463-67-7)

| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significance risk level (NSRL) |
|---|---|---|---|-----------------------------------|
| Yes   | No  | No  | No  |                                   |

#### Benzophenone (119-61-9)

| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significance risk level (NSRL) |
|---|---|---|---|-----------------------------------|
| Yes   | No  | No  | No  |                                   |

### SECTION 16: Other information

Other information : None.

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Full text of H-statements:

|                           |   |
|---------------------------|---|
| Acute Tox. 3 (Dermal)     | Acute toxicity (dermal) Category 3                                |
| Acute Tox. 3 (Inhalation) | Acute toxicity (inhalation) Category 3                            |
| Acute Tox. 4 (Oral)       | Acute toxicity (oral), Category 4                                 |
| Carc. 2                   | Carcinogenicity, Category 2                                       |
| Comb. Dust                | Combustible Dust  |
| Skin Corr. 1B             | Skin corrosion/irritation Category 1B                             |
| Skin Sens. 1              | Sensitisation — Skin, category 1                                  |
| STOT RE 2                 | Specific target organ toxicity (repeated exposure) Category 2     |
| H232                      | May form combustible dust concentrations in air                   |
| H302                      | Harmful if swallowed  |
| H311                      | Toxic in contact with skin  |
| H314                      | Causes severe skin burns and eye damage                           |
| H317                      | May cause an allergic skin reaction                               |
| H331                      | Toxic if inhaled  |
| H351                      | Suspected of causing cancer                                       |
| H373                      | May cause damage to organs through prolonged or repeated exposure |

SDS US (GHS HazCom 2012)

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