1.1. Product identifier	
Product form	: Mixture
Trade name	: TF 1000 – Thermo-Flex Acrylic Roof Coating
Product code	: TF 1000 Series
1.2. Relevant identified uses of the	substance or mixture and uses advised against
Use of the substance/mixture	: Acrylic Elasto-Meric Fluid-Applied Coating
Use of the substance/mixture	: For professional use only
1.3. Details of the supplier of the sa	fety data sheet
Huntsman Building Solutions 3315 E. Division Street, Arlington, TX 76011 Tel: 817-640-4900, 888-224-153 sdsinfo@huntsmanbuilds.com 1.4. Emergency telephone number	
Emergency number	: CARECHEM (866) 928-0789
SECTION 2: Hazards identification	on
2.1. Classification of the substance	or mixture
GHS-US classification	
Skin Sens. 1 H317	
0	
Full text of H-phrases: see section 16	
Full text of H-phrases: see section 16 2.2. Label elements	
Full text of H-phrases: see section 16 2.2. Label elements GHS-US labelling	
Full text of H-phrases: see section 16 2.2. Label elements GHS-US labelling	
Full text of H-phrases: see section 16 2.2. Label elements GHS-US labelling Hazard pictograms (GHS-US)	: CHS07 CHS07 CHS08 CHS08 CHS08
Full text of H-phrases: see section 16 2.2. Label elements	: K = K = K = K = K = K = K = K = K = K =
Full text of H-phrases: see section 16 2.2. Label elements GHS-US labelling Hazard pictograms (GHS-US) Signal word (GHS-US)	:Warning :H317 - May cause an allergic skin reaction

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	GHS-US classification
Titanium dioxide	(CAS No) 13463-67-7	< 7.5	Carc. 2, H351
Ammonia	(CAS No) 7664-41-7	<1	Flam. Gas 2, H221 Compressed gas, H280 Acute Tox. 3 (Inhalation:gas), H331 Skin Corr. 1B, H314 Eye Dam. 1, H318
Pentapotassium triphosphate	(CAS No) 13845-36-8	<1	Acute Tox. 4 (Oral), H302
3(2H)-Isothiazolone, 4,5-dichloro-2-octyl-	(CAS No) 64359-81-5	< 0.2	Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317

Full text of H-phrases: see section 16

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 effect	s, 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. Suspected of causing cancer if inhaled.
Symptoms/injuries after skin contact	: May cause an allergic skin reaction. Prolonged or repeated contact with the skin may cause dermatitis.
Symptoms/injuries after eye contact	: May cause eye irritation. symptoms may include stinging, tearing, redness, swelling and blurred vision.
Symptoms/injuries after ingestion	: Abdominal pain, nausea. Vomiting.
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, dry chemical powder. Foam.
Unsuitable extinguishing media	: Do not use a water jet since it may cause the fire to spread.
5.2. Special hazards arising from the sub	stance or mixture
No additional information available	
5.3. Advice for firefighters	
Firefighting instructions	: Exercise caution when fighting any chemical fire.

: Prevent entry to sewers and public waters. Material can splatter above 100° C (212° F). Dried

Protective equipment for firefighters Other information

product can burn.

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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 : Wear suitable protective clothing. Refer to section 8. Protective equipment For emergency responders 6.1.2. Protective equipment : Equip cleanup crew with proper protection. : Evacuate unnecessary personnel. Emergency procedures

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	t 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, includi	ng any incompatibilities	
Technical measures	 Provide adequate ventilation. A washing facility/water for eye and skin cleaning purposes should be present. 	
Storage conditions	: 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. PROTECT FROM FREEZING DURING SHIPMENT AND STORAGE. Do not store material at temperatures below 50 °F (10 °C).	
Incompatible materials	: Strong oxidizing agents. Acids. Base.	

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

SECTION 8: Exposure controls/personal protection 8.1. **Control parameters** TF 1000 – Thermo-Flex Acrylic Roof Coating ACGIH Not applicable OSHA Not applicable Ammonia (7664-41-7) ACGIH ACGIH TWA (ppm) 25 ppm ACGIH ACGIH STEL (ppm) 35 ppm OSHA OSHA PEL (TWA) (mg/m³) 35 mg/m³ OSHA OSHA PEL (TWA) (ppm) 50 ppm Titanium dioxide (13463-67-7) ACGIH ACGIH TWA (mg/m³) 10 mg/m³

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Titanium dioxide (13463-67	-7)		
OSHA	OSHA PEL (TWA	٨) (mg/m³)	15 mg/m³ (total dust)
Pentapotassium triphospha	ite (13845-36-8)		
ACGIH	Not applicable		
OSHA	Not applicable		
3(2H)-Isothiazolone, 4,5-dic	hloro-2-octyl- (643	59-81-5)	
ACGIH	Not applicable		
OSHA	Not applicable		
5.2. Exposure controls	le -	Provide adequate ventilation Provide	e local exhaust or general room ventilation. Emergency
			ers should be available in the immediate vicinity of any
Personal protective equipment			ry protection. Protective goggles. Gloves. Protective tional Personal Protection Equipment (PPE) may be
land protection	:		ourposes, it is recommended to check the resistance to entioned above together with the supplier of these gloves.
Eye protection	:		cal splash goggles and face shield, must be worn when to spraying liquid or airborne particles. Contact lenses
Skin and body protection	:		sonal protective clothing should be selected based on the volved and should be approved by a specialist before
Respiratory protection	:	be used when vapour concentration e	or/supplied air or self-contained breathing apparatus must exceeds applicable exposure limits. Use an approved air ammonia/methylamine cartridge. Respirators should be rements (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	
рН	: 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	: 115 °C (240 °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	: 1.44 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	: 20.1 g/l (0.17 lb/gal)

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable at normal conditions. will freeze and become unusable at temperatures below 32°F (0 °C).

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

Strong oxidizing agents. Acids. Base.

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.

SECT	ON 11: Toxicological information
11.1.	Information on toxicological effects

Acute toxicity

: Not classified

(Based on available data, the classification criteria are not met)

Ammonia (7664-41-7)	
LD50 oral rat	350 mg/kg
LC50 inhalation rat (ppm)	2000 ppm/4h
ATE US (oral)	350.000 mg/kg bodyweight
ATE US (gases)	2000.000 ppmv/4h
Titanium dioxide (13463-67-7)	
LD50 oral rat	> 10000 mg/kg
Pentapotassium triphosphate (13845-36-8)	
LD50 oral rat	2000 mg/kg
ATE US (oral)	2000.000 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)

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Carcinogenicity	: Suspected of causing cancer.
Titanium dioxide (13463-67-7)	
IARC group	2B - Possibly carcinogenic to humans
Paproductive toxicity	: Not classified
Reproductive toxicity	(Based on available data, the classification criteria are not met)
Specific target organ toxicity (single exposure)	: Not classified
opecine target organ toxicity (single exposure)	(Based on available data, the classification criteria are not met)
Specific target organ toxicity (repeated	: Not classified
exposure)	(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 of mist or aerosol may cause irritation to nose and throat . In case of repeated or
	prolonged exposure: Lungs irritation. Dizziness, headaches, nausea. Suspected of causing cancer if inhaled.
Symptoms/injuries after skin contact	 May cause an allergic skin reaction. Prolonged or repeated contact with the skin may cause dermatitis.
Symptoms/injuries after eye contact	: May cause eye irritation. symptoms may include stinging, tearing, redness, swelling and blurred vision.
Symptoms/injuries after ingestion	: Abdominal pain, nausea. Vomiting.
SECTION 12: Ecological informatior	
12.1. Toxicity	
Ecology - water	: Harmful to aquatic life with long lasting effects
Ammonia (7664-41-7)	
LC50 fish 1	0.44 mg/l (Exposure time: 96 h - Species: Cyprinus carpio)
EC50 Daphnia 1	25.4 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	0.26 - 4.6 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
Ammonia (7664-41-7)	-1.14 (at 25 °C)
Log Pow	

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

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ECTION 13: Disposal considerations	5
3.1. Waste treatment methods	
Vaste 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	
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 Substa Listed on the United States SARA Section 302 Listed on United States SARA Section 313	nces Control Act) inventory
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)
Titanium dioxide (13463-67-7)	
Listed on the United States TSCA (Toxic Substa	nces Control Act) inventory
Pentapotassium triphosphate (13845-36-8)	
Listed on the United States TSCA (Toxic Substa	nces Control Act) inventory
3(2H)-Isothiazolone 4.5 dichloro 2 octul (643	259-81-5
3(2H)-Isothiazolone, 4,5-dichloro-2-octyl- (643 Listed on the United States TSCA (Toxic Substa	·
Listed on the Onlited States ISCA (TOXIC SUBSIA	
15.2. International regulations	
CANADA	
Ammonia (7664-41-7)	
Listed on the Canadian DSL (Domestic Sustance	es List)
WHMIS Classification	Class A - Compressed Gas Class B Division 1 - Flammable Gas Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects
	Class E - Corrosive Material

Titanium dioxide (13463-67-7)		
Listed on the Canadian DSL (Domestic Sustances List)		
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects	

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Pentapotassium triphosphate (13845-36-8)

Listed on the Canadian DSL (Domestic Sustances List)

3(2H)-Isothiazolone, 4,5-dichloro-2-octyl- (64359-81-5)

Listed on the Canadian NDSL (Non-Domestic Substances List)

EU-Regulations

Ammonia (7664-41-7)

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

Titanium dioxide (13463-67-7)

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

Pentapotassium triphosphate (13845-36-8)

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

3(2H)-Isothiazolone, 4,5-dichloro-2-octyl- (64359-81-5)

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

15.2.2. 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)

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)

Pentapotassium triphosphate (13845-36-8)

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)

3(2H)-Isothiazolone, 4,5-dichloro-2-octyl- (64359-81-5)

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 Japanese ISHL (Industrial Safety and Health Law) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

15.3. US State regulations



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Titanium dioxide (13463-67	anium 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		

SECTION 16: Other information	
Indication of changes	 2.1. Classification of the substance or mixture. 3. Composition/information on ingredients. according to the federal final rule of hazard communication revised on 2012 (HazCom 2012).
Revision date	: 03/04/2015
Sources of Key data	: SDS - Safety Data Sheet.
Other information	: None.

Full text of H-phrases:

Acute Tox. 3 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 3			
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4			
Carc. 2	Carcinogenicity, Category 2			
Compressed gas	Gases under pressure : Compressed gas			
Eye Dam. 1	Serious eye damage/eye irritation, Category 1			
Flam. Gas 2	Flammable gases, Category 2			
Skin Corr. 1B	Skin corrosion/irritation Category 1B			
Skin Sens. 1	Sensitisation — Skin, category 1			
H221	Flammable gas			
H280	Contains gas under pressure; may explode if heated			
H302	Harmful if swallowed			
H314	Causes severe skin burns and eye damage			
H317	May cause an allergic skin reaction			
H318	Causes serious eye damage			
H331	Toxic if inhaled			
H351	Suspected of causing cancer			

HMIS III Rating

Health

: 2 Moderate Hazard - Temporary or minor injury may occur

Tioului	. Z moderate nazare
Flammability	: 0 Minimal Hazard
Physical	: 0 Minimal Hazard
Personal Protection	: 1

SDS US (GHS HazCom 2012)

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