

## 1. IDENTIFICATION OF THE SUBSTRATE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier

Trade name/designation: Caltech FCP Unpigmented.

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

Relevant identified uses: Pigment for Polyester resin roofing systems.

Recommended restrictions: SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen).  
SU3 Industrial uses: Uses of substances as such or in preparations\* at industrial sites.

### 1.3 Supplier details

Alumasc Building Products Ltd  
White House Works, Bold Road, Sutton, St Helens, Merseyside, United Kingdom, WA9 4JG  
Tel: +44 (0)1744 648400  
e-mail: [technical@alumascroofing.com](mailto:technical@alumascroofing.com)

### 1.4 Emergency telephone number

Association / Organisation: National Poisons Information Service  
Emergency telephone numbers: 0344 892 0111 (Healthcare professionals only)  
Other emergency telephone numbers Alumasc Building Products: +44 17 4464 8400  
(Mon-Thurs – 08.30-17.00 Fri – 08.30-16.00)

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

**Classified according to GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567 [1]:**  
Not applicable.

### 2.2 Label elements

Hazard pictures: Not applicable.  
Signal word: **Not applicable.**  
Hazard statements: Not applicable.  
Precautionary statements prevention: Not applicable.  
Precautionary statements response: Not applicable.  
Precautionary statement(s) storage: Not applicable.  
Precautionary statements disposal: Not applicable.

### 2.3 Other hazards

REACH - Art.57-59: The mixture does not contain Substances of Very High Concern (SVHC) at the SDS print date.

## 3. COMPOSITION AND INFORMATION ABOUT THE COMPONENTS

### 3.1 Substances

See 'Composition on ingredients' in Section 3.2.

### 3.2 Mixtures

Ingredient	Numbers	Classification (EC) 1272/2008	SCL / M-Factor	Nanoform Particle Characteristics	Concentration
Polyester Pigment Paste	CAS No: Not available EC-No: Not available Index-No: Not available REACH No: Not available	Not applicable	Not applicable	Not available	100 % by weight

**Legend:** 1. Classified by Chemwatch; 2. Classification drawn from GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567; 3. Classification drawn from C&L; \* EU IOELVs available; [e] Substance identified as having endocrine disrupting properties.

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

Eye contact:	If this product comes in contact with the eyes: Wash out immediately with fresh running water. If irritation continues, seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin contact:	If skin contact occurs: Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation:	If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion:	Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

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

See Section 11.

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

Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media

**Suitable extinguishing media:**

Foam, Dry chemical powder, BCF (where regulations permit), Carbon dioxide.

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

**Fire Incompatibility:**

None known.

### 5.3 Advice for fire-fighters

**Firefighting:**

Alert Fire Brigade and tell them location and nature of hazard.  
Wear breathing apparatus plus protective gloves.  
Prevent, by any means available, spillage from entering drains or water course.  
Use water delivered as a fine spray to control fire and cool adjacent area.

**Fire/Explosion Hazard:**

Combustible.  
Slight fire hazard when exposed to heat or flame.  
Heating may cause expansion or decomposition leading to violent rupture of containers.  
On combustion, may emit irritating/ toxic fumes.

## 6. ACCIDENTAL RELEASE MEASURES

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

See Section 8.

### 6.2 Environmental Precautions

See Section 12.

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

#### Minor spills:

Remove all ignition sources.  
Clean up all spills immediately.  
Avoid breathing vapours and contact with skin and eyes.  
Control personal contact with the substance, by using protective equipment.

#### Major spills:

Clear area of personnel and move upwind.  
Alert Fire Brigade and tell them location and nature of hazard.  
Wear breathing apparatus plus protective gloves.

### 6.4 Reference to other sections

Personal Protective Equipment advice is contained in Section 8 of the SDS.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

#### Safe handling:

Avoid all personal contact, including inhalation.  
Wear protective clothing when risk of exposure occurs.  
Use in a well-ventilated area.  
Prevent concentration in hollows and sumps.

#### Fire and explosion protection:

See Section 5.

#### Other information:

Store in original containers.  
Keep containers securely sealed.  
No smoking, naked lights or ignition sources.  
Store in a cool, dry, well-ventilated area.

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

#### Suitable container:

Metal can or drum.  
Packaging as recommended by manufacturer.  
Check all containers are clearly labelled and free from leaks.

#### Storage incompatibility:

Avoid contamination of water, foodstuffs, feed or seed.  
None known.

### 7.3. Specific end use(s)

See Section 1.2.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Ingredient	DNELs Exposure Pattern Worker	PNECs Compartment
Not available	Not available	Not available

\* Values for General Population.

### Occupational Exposure Limits (OEL):

#### Ingredient data:

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Not available	Not available	Not available	Not available	Not available	Not available	Not available

#### Emergency limits:

Ingredient	TEEL-1	TEEL-2	TEEL-3
Caltech FCP Unpigmented	Not available	Not available	Not available

Ingredient	Original IDLH	Revised IDLH
Caltech FCP Unpigmented	Not available	Not available

### 8.2 Exposure controls

8.2.1. Appropriate engineering Controls:	<p>Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.</p> <p>The basic types of engineering controls are:</p> <p>Process controls which involve changing the way a job activity or process is done to reduce the risk.</p> <p>Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.</p>
8.2.2. Personal protection:	
Eye and face protection:	<p>Safety glasses with side shields.</p> <p>Chemical goggles.</p> <p>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.</p>
Skin protection:	See Hand Protection below.
Hands/feet protection:	<p>Wear general protective gloves, eg. light weight rubber gloves.</p> <p>The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.</p> <p>The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.</p> <p>Personal hygiene is a key element of effective hand care.</p>
Body protection:	See Other Protection below.
Other protection:	<p>No special equipment needed when handling small quantities.</p> <p>OTHERWISE:</p> <p>Overalls.</p> <p>Barrier cream.</p> <p>Eyewash unit.</p>

### 8.2.3 Environmental exposure controls

See Section 12.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Important health, safety and environmental information

<b>Appearance:</b>	Coloured	<b>Relative density (Water = 1):</b>	Not available
<b>Physical state:</b>	Liquid	<b>Partition coefficient n-octanol / water:</b>	Not available
<b>Odour:</b>	Not available	<b>Auto-ignition temperature (°C):</b>	Not available
<b>Odour threshold:</b>	Not available	<b>Decomposition temperature (°C):</b>	Not available
<b>pH (as supplied):</b>	Not available	<b>Viscosity (cSt):</b>	Viscous
<b>Melting point/freezing point (°C):</b>	Not available	<b>Molecular weight (g/mol):</b>	Not available
<b>Initial boiling point and boiling range (°C):</b>	Not available	<b>Taste:</b>	Not available
<b>Flash point (°C):</b>	>93°C	<b>Explosive properties:</b>	Not available
<b>Evaporation rate [kg/(s m²)]:</b>	Not available	<b>Oxidising properties:</b>	Not available
<b>Flammability:</b>	Not available	<b>Surface Tension (dyn/cm or mN/m):</b>	Not available
<b>Upper Explosive Limit (%):</b>	Not available	<b>Volatile Component (%vol):</b>	Not available
<b>Lower Explosive Limit (%):</b>	Not available	<b>Gas group:</b>	Not available
<b>Vapour pressure (kPa):</b>	Not available	<b>pH as a solution (1%):</b>	Not available
<b>Solubility in water:</b>	Immiscible	<b>VOC g/L:</b>	Not available
<b>Vapour density (Air = 1):</b>	Not available	<b>Nanoform Particle Characteristics:</b>	Not available
<b>Nanoform Solubility:</b>	Not available		
<b>Particle Size:</b>	Not available		

### 9.2 Other information

Not available.

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

See Section 7.2.

### 10.2 Chemical stability

Product is considered stable and hazardous polymerisation will not occur.

### 10.3 Possibility of hazardous reactions

See Section 7.2.

### 10.4 Conditions to avoid

See Section 7.2.

### 10.5 Incompatible materials

See Section 7.2.

### 10.6 Hazardous decomposition products

See Section 5.3.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Inhaled:	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.
Ingestion:	The material has <b>NOT</b> been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.
Skin Contact:	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.
Eye:	Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).
Chronic:	Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.

#### Caltech FCP unpigmented:

Toxicity	Irritation
Not available	Not available

#### Legend:

1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances.

Acute Toxicity	✘	Carcinogenicity	✘
Skin Irritation/Corrosion	✘	Reproductivity	✘
Serious Eye Damage/Irritation	✘	STOT - Single Exposure	✘
Respiratory or Skin Sensitisation	✘	STOT - Repeated Exposure	✘
Mutagenicity	✘	Aspiration Hazard	✘

#### Legend:

✘ - Data either not available or does not fill the criteria for classification.

✔ - Data available to make classification.

### 11.2 Additional information

#### 11.2.1 Endocrine Disruption Properties

Not available.

#### 11.2.2 Other Information

See Section 11.1.

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

#### Caltech FCP unpigmented:

End point	Test duration (Hr)	Species	Value	Source
Not available	Not available	Not available	Not available	Not available

#### Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data.

## 12.2 Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
	No data available for all ingredients	No data available for all ingredients

## 12.3 Bioaccumulation potential

No data available for all ingredients.

## 12.4 Mobility in soil

No data available for all ingredients.

## 12.5 Results of PBT and vPvB assessment

	P	B	T
Relevant available data	Not available	Not available	Not available
PBT	X	X	X
vPvB	X	X	X

PBT Criteria fulfilled?	No
vPvB	No

## 12.6 Endocrine Disruption Properties

Not available.

## 12.7. Other adverse effects

Not available.

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Product / packaging disposal:	<p>Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.</p> <p>A Hierarchy of Controls seems to be common - the user should investigate:</p> <ul style="list-style-type: none"> <li>Reduction.</li> <li>Reuse.</li> <li>Recycling.</li> <li>Disposal (if all else fails).</li> </ul> <p>This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use.</p> <p><b>DO NOT allow wash water from cleaning or process equipment to enter drains.</b></p> <p>It may be necessary to collect all wash water for treatment before disposal.</p> <p>In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.</p> <p>Where in doubt contact the responsible authority.</p> <ul style="list-style-type: none"> <li>Recycle wherever possible.</li> <li>Consult State Land Waste Management Authority for disposal.</li> <li>Bury residue in an authorised landfill.</li> <li>Recycle containers if possible, or dispose of in an authorised landfill.</li> </ul>
Waste treatment options	Not available.
Sewage disposal options	Not available.

## 14. TRANSPORT INFORMATION

### Labels required:

Not applicable

Marine Pollutant: No.  
Hazchem: Not applicable.

**Land transport (ADR):**

14.1 UN number	Not applicable	
14.2 UN proper shipping name	Not applicable	
14.3 Transport hazard class(es)	Class:	Not applicable
	Subrisk:	Not applicable
14.4 Packing group	Not applicable	
14.5 Environmental hazard	Not applicable	
14.6 Special precautions for user	Hazard identification (Kemler):	Not applicable
	Classification code:	F1 Not applicable
	Hazard label:	Not applicable
	Special provisions:	Not applicable
	Limited quantity:	Not applicable
	Tunnel restriction code:	Not applicable

**Air transport (ICAO-IATA/DGR):**

14.1 UN number	Not applicable	
14.2 UN proper shipping name	Not applicable	
14.3 Transport hazard class(es)	ICAO/IATA class:	Not applicable
	ICAO/IATA subrisk:	Not applicable
	ERG code:	Not applicable
14.4 Packing group	Not applicable	
14.5 Environmental hazard	Not applicable	
14.6 Special precautions for user	Special provisions:	Not applicable
	Cargo only packing instruction:	Not applicable
	Cargo only maximum qty/pack:	Not applicable
	Passenger and cargo packing instruction:	Not applicable
	Passenger and cargo maximum qty/pack:	Not applicable
	Passenger and cargo limited qty packing instructions:	Not applicable
	Passenger and cargo limited maximum qty/pack:	Not applicable

**Sea transport (IMDG-Code/GGVSee):**

14.1 UN number	Not applicable	
14.2 UN proper shipping name	Not applicable	
14.3 Transport hazard class(es)	IMDG class:	Not applicable
	IMDG subrisk:	Not applicable
14.4 Packing group	Not applicable	
14.5 Environmental hazard	Not applicable	
14.6 Special precautions for user	EMS number:	Not applicable
	Special provisions:	Not applicable
	Limited quantities:	Not applicable

**Inland waterways transport (ADN):**

14.1 UN number	Not applicable	
14.2 UN proper shipping name	Not applicable	
14.3 Transport hazard class(es)	Not applicable	
14.4 Packing group	Not applicable	
14.5 Environmental hazard	Not applicable	
14.6 Special precautions for user	Classification code:	Not applicable
	Special provisions:	Not applicable
	Limited quantity:	Not applicable
	Equipment required:	Not applicable
	Fire cones numbers:	Not applicable

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC code**

Not applicable.

**14.8. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code**

Not applicable.

**14.9. Transport in bulk in accordance with the ICG Code**

Not applicable.



## 15. REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable - : Directives 98/24/EC, - 92/85/EEC, - 94/33/EC,- 2008/98/EC, - 2010/75/EU; Commission Regulation (EU) 2020/878; Regulation (EC) No 1272/2008 as updated through ATPs.

### 15.2. Chemical safety assessment

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

#### National Inventory Status

National Inventory	Status
Australia - AIIIC / Australia Non-Industrial Use	Not available
Canada - DSL	Not available
Canada - NDSL	Not available
China - IECSC	Not available
Europe - EINEC / ELINCS / NLP	Not available
Japan - ENCS	Not available
Korea - KECI	Not available
New Zealand - NZIoC	Not available
Philippines - PICCS	Not available
USA - TSCA	Not available
Taiwan - TCSI	Not available
Mexico - INSQ	Not available
Vietnam - NCI	Not available
Russia - FBEPH	Not available
Legend:	Yes = All CAS declared ingredients are on the inventory. No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

## 16. OTHER INFORMATION

### Full text risk and hazard codes:

H332: Harmful if inhaled.

### SDS version summary:

Version	Date of Update	Section Updated
1.1	14/06/2023	Template Change

### Other information:

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

- EN 166 Personal eye-protection
- EN 340 Protective clothing
- EN 374 Protective gloves against chemicals and micro-organisms
- EN 13832 Footwear protecting against chemicals
- EN 133 Respiratory protective devices

### Definitions and abbreviations:

- PC—TWA: Permissible Concentration-Time Weighted Average
- PC—STEL: Permissible Concentration-Short Term Exposure Limit
- IARC: International Agency for Research on Cancer
- ACGIH: American Conference of Governmental Industrial Hygienists
- STEL: Short Term Exposure Limit
- TEEL: Temporary Emergency Exposure Limit

IDLH: Immediately Dangerous to Life or Health Concentrations  
ES: Exposure Standard  
OSF: Odour Safety Factor  
NOAEL :No Observed Adverse Effect Level  
LOAEL: Lowest Observed Adverse Effect Level  
TLV: Threshold Limit Value  
LOD: Limit Of Detection  
OTV: Odour Threshold Value  
BCF: BioConcentration Factors  
BEI: Biological Exposure Index  
AIIIC: Australian Inventory of Industrial Chemicals  
DSL: Domestic Substances List  
NDSL: Non-Domestic Substances List  
IECSC: Inventory of Existing Chemical Substance in China  
EINECS: European Inventory of Existing Commercial chemical Substances  
ELINCS: European List of Notified Chemical Substances  
NLP: No-Longer Polymers  
ENCS: Existing and New Chemical Substances Inventory  
KECI: Korea Existing Chemicals Inventory  
NZIoC: New Zealand Inventory of Chemicals  
PICCS: Philippine Inventory of Chemicals and Chemical Substances  
TSCA: Toxic Substances Control Act  
TCSI: Taiwan Chemical Substance Inventory  
INSQ: Inventario Nacional de Sustancias Químicas  
NCI: National Chemical Inventory  
FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

The contents and format of this SDS are in accordance with EEC Commission Directive 1999/45/EC, 67/548/EC, 1272/2008/EC and EEC Commission Regulation 1907/2006/EC (REACH) Annex II.

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