

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

1.1 Product identifier

Trade name/designation: Eurorooft Caltech UV.

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

Main use category: Industrial & professional uses.

1.3 Manufacturer/Supplier

Supplier:
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

1.4 Manufacturer/Supplier

Emergency telephone: 01744 648 400 - (Mon-Thurs – 08.30-17.00 Fri – 08.30-16.00)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008:

Flam. Liq. 3: H226; EUH066; Skin Sens. 1: H317; Aquatic Chronic 3: H412. EUH066.

Flammable liquid and vapour. Harmful in contact with skin and if inhaled. Causes skin irritation. May cause allergic skin reaction. Harmful to aquatic organisms with long lasting effects. Repeated exposure may cause skin dryness or cracking.

2.2 Labelling according to Regulation (EU) 1272/2008

Hazard pictures:



GHS02



GHS07

Signal word:

Warning.

Hazard statements:

H226: Flammable liquid and vapour.
H317: May cause allergic skin reaction.
H412: Harmful to aquatic life with long lasting effects.

Precautionary statements:

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P261: Avoid breathing vapours.
P280: Wear protective gloves/protective clothing/eye protection.
P302+P352: IF ON SKIN Wash with plenty of soap and water.
P312: Call a POISON CENTER or doctor/physician if you feel unwell.
P501: Dispose of contents/container according to local regulations.

Additional labelling:

EUH066: Repeated exposure may cause skin dryness or cracking.

215-535-7 Xylene.
918-481-9 Hydrocarbons, C10-C13.
411-700-4 1,6-Hexadiyl-Bis[2-[2-(1-Ethylpentyl)-3-Oxazolidinyl]- -Ethyl]-Carbamate.
500-125-5 Isophorone Diisocyanate Homopolymer.

2.3 Other hazards

This product is not identified as a PBT or vPBT substance.

3. COMPOSITION AND INFORMATION ABOUT THE COMPONENTS

3.1 Substance

Polyurethane liquid coating.

3.2 Mixture

Ingredient	Concentration %	CAS No.	EC No.	REACH Reg No.	CLP Classification
Xylene (Mixed Isomers)	5-<10	1330-20-7	215-535-7		Flam. Liq. 3: H226; Acute. Tox. 4: H312; Acute Tox. 4: H332; Skin Irrit. 2: H315;
Hydrocarbons, C10-C13, N- Alkanes, Isoalkanes, Cyclics, <2% Aromatics	5-<10	-	918-481-9	01- 2119457273- 39-xxxx	Asp. Tox. 1: H304; EUH066
1,6-Hexadiyl-Bis[2-[2-(1- Ethylpentyl)-3-Oxazolidinyl]- -Ethyl]-Carbamate	1-5	140921-24-0	411-700-4		Skin Sens. 1: H317
Isophorone Diisocyanate Homopolymer	0.5-2.0	53880-05-0	500-125-5		Skin Sens. 1: H317; STOT SE 3 H335
Diuron (ISO)	>0.1 - <0.25	330-54-1	206-354-4		Acute Tox. 4: H302; STOT RE 2: H373; Acute 1: H400; Aquatic Chronic 1: H410

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice:	If possible, remove affected person from source of contamination. Symptoms of poisoning may even occur after several hours; therefore, medical observation for at least 48 hours after the accident.
Inhalation:	Provide fresh air in a comfortable upright sitting position. Get medical attention if any discomfort continues. If breathing is difficult oxygen may be administered by properly trained personnel. Perform artificial respiration if breathing has stopped
Skin contact:	Remove contaminated clothing unless stuck to skin and wash skin with copious amounts of soap and water. Get medical attention if discomfort continues.
Eye contact:	Check/remove any contact lenses from the eyes before rinsing. Wash eyes with plenty of water for at least 15 minutes and get medical attention if symptoms persist.
Ingestion:	Do not induce vomiting. Loosen tight clothing, rinse mouth and provide fresh air. Seek medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

Not expected to present a significant hazard under anticipated conditions of normal use.

4.3 Indication of any immediate medical attention and special treatment needed

Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media:

CO₂, foam, dry powder. Use extinguishing media for the appropriate situation.

Unsuitable extinguishing media:

Water, high volume water jet.

5.2 Special hazards arising from the substance or mixture

Due to excessive heat/pressure build up closed containers can burst when heated. May ignite at high temperature. When heated to decomposition, may release vapours/gases that may be hazardous: Carbon Dioxide, Carbon Monoxide, Nitrous Oxides and Phosphorus Oxides.

5.3 Advice for fire-fighters

Remove containers away from fire and water cool.

Use appropriate protective clothing and an approved respirator during firefighting.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

When cleaning a spillage wear suitable protective clothing such as nitrile gloves and suitable goggles. Avoid contact with skin and eyes. Provide adequate ventilation. In an unventilated or tightly confined space respiratory protection must be used if the general level exceeds the Recommended Workplace Exposure Limit. (WEL).

6.2 Environmental precautions

Do not allow product to enter drains.

In case of any contamination of watercourses, contact relevant authorities.

6.3 Methods and materials for containment and cleaning up

In the first instance make efforts to contain the spilled material. Collect spillage using an inert absorbent material, place in containers suitable for disposal, seal securely and deliver for disposal in accordance with local regulations.

6.4 Reference to other sections

Personal protection covered in Section 8.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Always observe good industrial hygiene practices. Avoid contact with skin, eyes and clothing. Avoid breathing vapours and spray mists. Do not use in confined spaces without adequate ventilation and/or suitable filter mask.

When using, do not consume food, drink or smoke.

Remove contaminated clothing.

7.2 Conditions for safe storage, including any incompatibilities

Store in the tightly closed original container in a dry place. Protect from frost and direct sunlight. Store at temperature between 5 - 25°C.

7.3 Specific end use(s)

No specific data available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Workplace Exposure Limits (WEL) GB EH40:

Ingredient		Time Weighted Average (Twa) 8 Hours		Short Term Exposure Limit (Stel) 15 Mins	
Xylene (Mixed Isomers)		50ppm (Sk)/220mg per m3 (Sk)		100ppm (Sk)/441mg/m3 (Sk)	
Hydrocarbons, C10-C13		1200mg/m3 (171ppm)		N/A	
Isophorone Diisocyanate		0.02mg/m3		0.07mg/m3	
Derived No Effect Level (DNEL) Workers					
For Xylene:					
Route of exposure	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	
Oral	Not required				
Inhalation	289 mg/m3	289 mg/m3	N/A	77 mg/m3	
Dermal	Not applicable			180 mg/kg	
For Isophorone Diisocyanate:					
Route of exposure	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	
Inhalation	0.58mg/m3	N/A	0.29mg/m3	N/A	
Dermal	Not applicable				
Oral	Not applicable				
Predicted No Effect Concentration (PNEC)					
For Xylene:					
Fresh water		0.327 mg/l			
Marine water		0.327 mg/l			
Intermittent releases		0.327 mg/l			
Sewage treatment plant (STP)		6.58 mg/l			
Fresh water sediment		12.46 mg/kg dry weight (d.w.)			
Marine sediment		12.46 mg/kg dry weight (d.w.)			
Soil		2.31 mg/kg dry weight (d.w.)			
For Isophorone Diisocyanate:					
Fresh water		0.0015mg/l			
Marine water		0.00015mg/l			
Intermittent releases		0.327mg/l			
Sewage treatment plant (STP)		100mg/l			
Fresh water sediment		N/A			
Marine sediment		N/A			
Soil		N/A			

8.2 Exposure controls

Appropriate engineering controls:

In enclosed areas use local exhaust ventilation, or similar engineering controls to ensure vapours remain below occupational exposure limits.

Personal protective equipment:

Eye protection:

Wear safety glasses with side-shields. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Skin protection:

Wear protective gloves made of the following material: Nitrile rubber. Polyvinyl alcohol (PVA). Viton rubber (fluoro rubber). To protect hands from chemicals, gloves should comply with European Standard EN374. The glove material must be impermeable and resistant to the product. Test the durability of the gloves before use. Protective gloves should be replaced at first signs of wear. Protective clothing to include safety shoes, long-sleeved working clothing, long trousers.

Respiratory protection: Under normal working conditions, respiratory protection should not be necessary. However, in confined spaces, where there is a risk of pollution above the WEL limit, a suitable filter mask may be required.

Environmental exposure controls:

Avoid release to the environment. Do not allow product to enter drains. In case of any contamination of watercourses, contact relevant authorities.

See also measures detailed in Sections 6 & 7.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Pigmented thixotropic liquid.
Odour:	Solvent - mild aromatic.
Odour threshold:	No data available.
Ph:	Not applicable.
Melting point/freezing point:	No data available.
Boiling point/range:	>130°C.
Flash point:	34°C (closed cup).
Evaporation rate:	No data available.
Flammability:	Flammable liquid and vapour.
Upper explosion limit:	10.8% (V).
Lower explosion limit:	1% (V).
Vapour density (air = 1):	>1.
Relative density:	~1.47.
Solubility in H2O:	Insoluble and immiscible.
Partition co-efficient:	No data available.
Auto-ignition temperature:	>430°C.
Decomposition temperature:	No data available.
Viscosity:	>5000mPas.
Explosive properties:	Not classified based on available information.
Oxidising properties:	Not classified based on available information.

9.2 Other information

No data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No hazardous reactions under normal conditions of use.

10.2 Chemical stability

This product is extremely stable under normal temperature conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions under normal conditions of use.

10.4 Conditions to avoid

Avoid extreme excessive heat for prolonged periods of time. Avoid contact with water, as the product will naturally harden into a hard mass in contact with water and moisture.

10.5 Materials to avoid

Alcohols, strong acids, strong oxidising materials.

10.6 Hazardous decomposition products

No dangerous decomposition products when stored and handled correctly.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:	Not classified based on available information.
Skin corrosion/Irritation:	Repeated exposure may cause skin dryness or cracking.
Serious eye damage/irritation:	Not classified based on available information.
Respiratory sensitisation:	Not classified based on available information.
Skin sensitisation:	May cause allergic skin reaction.
Germ cell mutagenicity:	Not classified based on available information.
Carcinogenicity:	Not classified based on available information.
Reproductive toxicity:	Not classified based on available information.
STOT-single exposure:	Not classified based on available information.
STOT-repeated exposure:	Not classified based on available information.
Aspiration hazard:	Not classified based on available information.

12. ECOLOGICAL INFORMATION

12.1 Ecological information

Test	Result	Species	Exposure
OECD 203 Fish, Acute Toxicity Test	Acute LC50 14,7 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
OECD 202 Daphnia sp. Acute Immobilization Test	Acute EC50 1,4 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
OECD 201 Alga, Growth Inhibition Test	Acute EC50 0,022 mg/l Fresh water	Algae - Scenedesmus subspicatus	72 hours
OECD 209 Activated Sludge, Respiration Inhibition Test	Acute EC50 3080 mg/l	Bacteria - Activated sludge	0.5 hours
OECD 204 Fish, Prolonged Toxicity Test: 14-Day Study	Chronic NOEC 0,41 mg/l Fresh water	Fish - Oncorhynchus mykiss	28 days
OECD 211 Daphnia Magna Reproduction	Chronic NOEC 0,56 mg/l Fresh water	Daphnia - Daphnia magna	21 days
OECD 201 Alga, Growth Inhibition Test, Growth	Chronic NOEC 0,0032 mg/l Fresh water	Algae - Scenedesmus subspicatus	71 hours

12.2 Persistence & degradability

Product is not readily biodegradable.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

This mixture contains no PBT or vPvB components at levels of 0.1% or higher.

12.6 Other adverse effects

No data available.


13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

All material residues and packaging must be disposed of in accordance with local/national waste disposal regulations and environmental controls.

Packaging containing liquid product will meet the criteria for hazardous waste. Code: 15 01 10*.

14. TRANSPORT INFORMATION

	ADR/IATA	IMDG
14.1 UN number		1139
14.2 Proper shipping name		Coating Solution (Contains Xylene).
14.3 Transport hazard class(es)/marks		Class 3 
14.4 Packing group/Labels	III/3	III/3 EmS Number 1 F-E EmS Number 2 S-E
14.5 Environmental hazards		Not classified
14.6 Special precautions for user		Not applicable
14.7 Transport in bulk according to Annex II of MARPOL & the IBC Code		Not applicable

15. REGULATORY INFORMATION

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

Prohibition/Restriction	
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII):	Not applicable.
REACH - Candidate list of substances of very high concern for authorisation (Article 59):	None of the components are listed.
REACH - List of substances subject to authorisation (Annex XIV):	Not applicable.
REACH information:	All substances contained in this product are pre-registered or registered by our upstream suppliers and/or excluded from the regulation and/or exempted from the registration.

15.2 Chemical safety assessment

This product contains substances for which Chemical Safety Assessments are still required.

16. OTHER INFORMATION

Hazard Statements for components in section 3:

H226:	Flammable liquid and vapour.
H304:	May be fatal if inhaled and enters airways.
H312:	Harmful in contact with skin.
H315:	Causes skin irritation.
H317:	May cause an allergic skin reaction.
H332:	Harmful if inhaled.
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.
H412:	Harmful to aquatic life with long lasting effects.
EU066:	Repeated exposure may cause skin dryness or cracking.

Sectors of use/relevant identified uses of the mixture:

SU3:	Industrial uses: Uses of substances as such or in preparations at industrial sites.
SU19:	Building and construction work.
SU22:	Professional uses: Public domain (administration, education, entertainment, services, craftsmen).

Uses advised against:

SU21:	Consumer uses: Private households / general public / consumers.
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Wording of the hazard classes:

Acute Tox:	Acute Toxicity.
Flam. Liq:	Flammable Liquids.
Skin Irrit:	Skin Irritation.
Skin Sens:	Skin Sensitisation.
STOT SE:	Specific Target Organ Toxicity - Single Exposure.
ADR:	The European Agreement on the International Transport of Dangerous Goods by Road.
CAS:	Chemical Abstracts Service.
DNEL:	Derived No-Effect Level.
GHS:	Globally Harmonized System.
IATA:	International Air Transport Association.
IMDG:	International Maritime Code for Dangerous Goods.
LC50:	Median lethal concentration (concentrations of the chemical in air that kills 50% of the test animals during the observation period).
LD50:	Median lethal dose (the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals).
MARPOL:	International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978.
PBT:	Persistent, Bioaccumulative and Toxic.
PNEC:	Predicted No Effect Concentration.
REACH:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency.
SVHC:	Substances of Very High Concern.
VOC:	Volatile Organic Compounds.
vPvB:	Very Persistent and Very Bioaccumulative.
WEL:	Workplace Exposure Limit.

Training:

This material should only be used by trained personnel.

All the information supplied on this data sheet applies only when the product is used for the prescribed application and in accordance with the directions for use.

Please make this data available to all persons involved with the production, transportation and use of this product.

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.

CALTECH UV
SAFETY DATA SHEET

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