

Safety Data Sheet as per regulation (EC) 1907/2006

Commercial Product Name : Caltech QC Detail S & W

Ref: M709FR

Revision Date : 14.01.2016

Version : 3.0 /en

ALUMASC

ROOFING SYSTEMS

Replaces version from : 14.01.2016

Print date : 27.01.2016

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

1.1 Product identifier

*Commercial Product Name Caltech QC Detail S & W

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

Relevant identified uses fluid plastic sealing

1.3 Details of the supplier of the safety data sheet

Address Alumasc Exterior
Building Products Ltd
White House Works,
Bold Road, Sutton
St Helens, WA9 4JG
Telephone : +44 (0) 1744 648 400

Responsible Department Technical Department

E-mail (competent person) roofing@alumasc-exteriors.co.uk

1.4 Emergency telephone number

Emergency telephone number +44 (0) 1744 648 400

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

*Classification according to Regulation (EC) No. 1272/2008 Flam. Liq. 2; H225 Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT SE 3; H335

2.2 Label elements

*Hazard pictogram



GHS02



GHS07

Signal word

Danger

Hazardous component(s) to be indicated on label methyl methacrylate , 2-ethylhexyl acrylate , Fatty acids , C18-unsatd. , dimers , reaction products with N , N-dimethyl-1 , 3-propanediamine and 1 , 3-propanediamine

*H-statement(s)

H225: Highly flammable liquid and vapour.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.

Safety Data Sheet as per regulation (EC) 1907/2006

Commercial Product Name : Caltech QC Detail S & W

Ref: M709FR

Revision Date : 14.01.2016

Version : 3.0 /en

ALUMASC

ROOFING SYSTEMS

Replaces version from : 14.01.2016

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H335: May cause respiratory irritation.

*P-statement(s)

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233: Keep container tightly closed.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P312: Call a POISON CENTER/doctor if you feel unwell.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P362+P364: Take off contaminated clothing and wash it before reuse.

SECTION 3: Composition/information on ingredients

3.2 Mixture

Chemical characterization

Mixture with reactive acrylates

Hazardous ingredients

Ingredient		Classification (EC) 1272/2008	Concentration
methyl methacrylate	CAS No. : 80-62-6 EC-No. : 201-297-1 Index-No. : 607-035-00-6 REACH No. : 01-2119452498-28-XXXX	Flam. Liq. 2; H225 STOT SE 3; H335 Skin Irrit. 2; H315 Skin Sens. 1; H317	15.0 - 20.0 % by weight
2-ethylhexyl acrylate	CAS No. : 103-11-7 EC-No. : 203-080-7 Index-No. : 607-107-00-7 REACH No. : 01-2119453158-37-XXXX	Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT SE 3; H335 Aquatic Chronic 3; H412	10.0 - 15.0 % by weight
aliphatic urethanacrylate		Skin Irrit. 2; H315 Eye Irrit. 2; H319	5.0 - 10.0 % by weight
Fatty acids, C18-unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine	CAS No. : 162627-17-0 EC-No. : 605-296-0 REACH No. : 01-2119970640-38-XXXX	Skin Sens. 1A; H317	0.1 - 1.0 % by weight
1,1'-(p-Tolylimino)dipropan-2-ol	CAS No. : 38668-48-3 EC-No. : 254-075-1 REACH No. : 01-2119980937-17-XXXX	Acute Tox. 2; H300 Eye Irrit. 2; H319 Aquatic Chronic 3; H412	0.1 - 1.0 % by weight

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Move out of dangerous area. Take off all contaminated clothing immediately. Do not leave the victim unattended. Show this safety data sheet to the doctor in attendance.

If inhaled

Move to fresh air. If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.

In case of skin contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation occurs, get medical advice/attention.

In case of eye contact

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

If swallowed

Rinse mouth. Do NOT induce vomiting. Call a physician immediately.

4.3 Indication of any immediate medical attention and special treatment needed

Immediate medical attention

Treat symptomatically.

Safety Data Sheet as per regulation (EC) 1907/2006

Commercial Product Name : Caltech QC Detail S & W

Ref: M709FR

Revision Date : 14.01.2016

Version : 3.0 /en

ALUMASC

ROOFING SYSTEMS

Replaces version from : 14.01.2016

Print date : 27.01.2016

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Carbon dioxide (CO₂), Foam, Water spray, Dry powder

Extinguishing media which must not be used for safety reasons High volume water jet

5.2 Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases Violent polymerization may be caused by: Extremes of temperature and direct sunlight.

Fire will produce dense black smoke containing hazardous combustion products (see heading 10). Exposure to decomposition products may be a hazard to health.

5.3 Advice for firefighters

Special protective equipment for firefighting In the event of fire, wear self-contained breathing apparatus.

Additional information on firefighting Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Vapours are heavier than air and may spread along floors.
Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Clean contaminated surface thoroughly.
Treat recovered material as described in the section "Disposal considerations".

6.4 Reference to other sections

Reference to other sections Disposal considerations See also section 13

6.5 Additional information

Other information Treat recovered material as described in the section "Disposal considerations".

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling Processing may lead to evolution of flammable volatiles. In case of insufficient ventilation, wear suitable respiratory equipment. Keep product and empty container away from heat and sources of ignition.
Handle and open container with care. Avoid contact with skin and eyes.

Precautions Smoking, eating and drinking should be prohibited in the application area. For personal protection see section 8. Observe label precautions.

Safety Data Sheet as per regulation (EC) 1907/2006

Commercial Product Name : Caltech QC Detail S & W

Ref: M709FR

Revision Date : 14.01.2016

Version : 3.0 /en

ALUMASC

ROOFING SYSTEMS

Replaces version from : 14.01.2016

Print date : 27.01.2016

Advice on protection against fire and explosion

Take precautionary measures against static discharges. Vapours may form explosive mixture with air. Use water spray to cool unopened containers.

7.2 Conditions for safe storage, including any incompatibilities

Storage space and container requirements

Storage must be in accordance with the BetrSichV (Germany). Keep in a cool, well-ventilated place.

Keep in properly labelled containers. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

*TRGS 510

3

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

METHYL METHACRYLATE

Great Britain

Long-term exposure value/ ppm	Long-term exposure value/ mg/m ³	Short-term exposure value / ppm	Short-term exposure value / mg/m ³	Source
50	208	100	416	19

Source : 19 - EH40/2005 Workplace exposure limits (2011)

Europe

Long-term exposure value/ ppm	Short-term exposure value / ppm	Issuing date	Source
50	100	2009/161	24

Source : 24 - DIRECTIVE 2009/161/EU

DNEL

Value	Target group	Exposure route	Exposure frequency	Source
210 mg/m ³	Workers	Inhalation	Long term effects Local	100
210 mg/m ³	Workers	Inhalation	Long term effects systemic	100
1,5 mg/cm ²	Workers	Skin	Long term effects Local	100
13,67 mg/kg	Workers	Skin	Long term effects systemic	100
105 mg/m ³	Consumers	Inhalation	Long term effects Local	100
74,3 mg/m ³	Consumers	Inhalation	Long term effects, systemic	100
1,5 mg/cm ²	Consumers	Skin	Long term effects Local	100
8,2 mg/kg	Consumers	Skin	Long term effects systemic	100
1,5 mg/cm ²	Consumers	Skin	Short-term effects Local	100

Source : 100 - Firmendaten

PNEC

Value	Exposure route	Source
0,94 mg/l	freshwater	100
0,094 mg/l	marine water	100
5,74 mg/kg	sediment	100
1,47 mg/kg	Soil	100

Source : 100 - Firmendaten

Safety Data Sheet as per regulation (EC) 1907/2006

Commercial Product Name : Caltech QC Detail S & W

Ref: M709FR

Revision Date : 14.01.2016

Version : 3.0 /en

ALUMASC

ROOFING SYSTEMS

Replaces version from : 14.01.2016

Print date : 27.01.2016

2-ETHYLHEXYL ACRYLATE

DNEL

Value	Target group	Exposure route	Exposure frequency	Source
37,5 mg/m ³	Workers	Inhalation	Long term effects Local	100
0,242 mg/cm ²	Workers	Skin	Long term effects Local	100
0,242 mg/cm ²	Workers	Skin	Short-term effects Local	100
4,5 mg/m ³	Consumers	Inhalation	Long term effects Local	100

Source : 100 - Firmendaten

PNEC

Value	Exposure route	Source
0,002752 mg/l	fresh water	100
0,000272 mg/l	seawater	100
2,3 mg/l	wastewater treatment plant	100
0,126 mg/kg	sediment Water	100
0,126 mg/kg	sediment seawater	100
1,0 mg/kg	Soil	100
0,0023 mg/kg	Intermittent release.	100

Source : 100 - Firmendaten

1,1`-(p-Tolylimino)dipropan-2-ol

DNEL

Value	Target group	Exposure route	Exposure frequency	Source
2 mg/m ³	Workers	Inhalation	Long term effects	100
0,6 mg/kg	Workers	Skin	Long term effects	100

Source : 100 - Firmendaten

PNEC

Value	Exposure route	Source
199,5	Waste water treatment	100
0,0072 mg/kg	marine water	100
0,017 mg/l	freshwater	100

Source : 100 - Firmendaten

8.2 Exposure controls

Respiratory protection

Vapour during processing may be irritating to the respiratory tract and to the eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Remarks :

Recommended Filter type: A1, A2 (in case of higher concentration)

Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust).

Hand protection

Protective gloves complying with EN 374. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Suitable material :

Nitriles

Unsuitable material :

woven fabric, Leather gloves

Material thickness :

0,38 mm

Safety Data Sheet as per regulation (EC) 1907/2006

Commercial Product Name : Caltech QC Detail S & W

Ref: M709FR

Revision Date : 14.01.2016

Version : 3.0 /en

ALUMASC

ROOFING SYSTEMS

Replaces version from : 14.01.2016

Print date : 27.01.2016

Break through time :	<25 min
Eye protection	Tightly fitting safety goggles
Skin and body protection	Wear suitable protective equipment. Long sleeved clothing
General protective and hygiene measures	Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feedingstuffs. Wash hands before breaks and at the end of workday. Use protective skin cream before handling the product. Avoid contact with the skin and the eyes.
Engineering measures	Ensure adequate ventilation, especially in confined areas. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

*Physical state	liquid
Form	Liquid
Colour	different color-tone
Odour	typic for acrylates
*Boiling point [°C]	>100 °C
*Flash point [°C]	10 °C
Evaporation rate [kg/(s*m ²)]	not determined
Vapour density	not determined
Density [g/cm ³]	appr. 1,30 - 1,35 g/cm ³
Water solubility [g/l]	
Remarks :	insoluble
Partition coefficient n-octanol /water (log P O/W)	not determined
Viscosity, dynamic [kg/(m*s)]	appr. 38 - 42 dPa*s
Temperature :	20 °C
Measuring method :	Haake-Viscotester
Explosive properties	Not relevant
Oxidising properties	Not relevant

9.2 Other information

Ignition temperature [°C]	280 °C
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SECTION 10: Stability and reactivity

10.3 Possibility of hazardous reactions

Hazardous reactions	The product is normally supplied in a stabilized form. If the permissible storage period and/or storage temperature is noticeably exceeded, the product may polymerize with heat evolution. Risk of receptacle bursting.
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10.4 Conditions to avoid

Conditions to avoid	Extremes of temperature and direct sunlight.
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Safety Data Sheet as per regulation (EC) 1907/2006

Commercial Product Name : Caltech QC Detail S & W

Ref: M709FR

Revision Date : 14.01.2016

Version : 3.0 /en

ALUMASC

ROOFING SYSTEMS

Replaces version from : 14.01.2016

Print date : 27.01.2016

10.5 Incompatible materials

Materials to avoid

Reacts violently with peroxides. Reducing agents, Strong bases, Amines, Oxidizing agents

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Hazardous ingredients

METHYL METHACRYLATE

Oral toxicity [mg/kg]	Test criterion	Test species	Measuring method	Source
>5000	LD50	rat	OECD Test Guideline 401	100

Source : 100 - Firmendaten

Dermal toxicity [mg/kg]	Test criterion	Test species	Source
>5000	LD50	rabbit	100

Source : 100 - Firmendaten

LC50 Inhalation 4h for vapours [mg/l]	Test criterion	Test species	Source
29,8 mg/l	LC50	rat	100

Source : 100 - Firmendaten

Irritant effect on skin	irritating
Test species	rabbit
Irritant effect on eyes	Irritant
Test species	rabbit
Sensitization	Skin sensitization
Test species	mouse
Carcinogenic effects	not a carcinogen
Test species	rat, mouse Mutagenicity not mutagenic
Reproduction toxicity	not toxic to reproduction

Specific target organ toxicity (single exposure) [mg/kg]	Source
Causes respiratory tract irritation.	100

Source : 100 - Firmendaten

Specific target organ toxicity (repeated exposure) [mg/kg]	Source
No known effect.	100

Source : 100 - Firmendaten

2-ETHYLHEXYL ACRYLATE

Oral toxicity [mg/kg]	Test criterion	Test species	Source
4435 mg/kg	LD50	rat	100

Source : 100 - Firmendaten

Safety Data Sheet as per regulation (EC) 1907/2006

Commercial Product Name : Caltech QC Detail S & W

Ref: M709FR

Revision Date : 14.01.2016

Version : 3.0 /en

ALUMASC

ROOFING SYSTEMS

Replaces version from : 14.01.2016

Print date : 27.01.2016

Dermal toxicity [mg/kg]	Test criterion	Test species	Source
7522 mg/kg	LD50	rabbit	100

Source : 100 - Firmendaten

Inhalative toxicity [mg/l]	Test species	Exposure duration	Source
1,19 mg/l	rat	8 hours	100

Source : 100 - Firmendaten

<i>Irritant effect on skin</i>	<i>Skin irritation</i>
<i>Test species</i>	<i>rabbit</i>
<i>Exposure duration</i>	<i>4 h</i>
<i>Irritant effect on eyes</i>	<i>slightly irritating</i>
<i>Measuring method</i>	<i>OECD Test Guideline 405</i>
<i>Test species</i>	<i>rabbit</i>
<i>Sensitization</i>	<i>Skin sensitization</i>
<i>Carcinogenic effects</i>	<i>No known effect.</i>
<i>Mutagenicity</i>	<i>No known effect.</i>
<i>Reproduction toxicity</i>	<i>No known effect.</i>

Specific target organ toxicity (single exposure) [mg/kg]	Source
Causes respiratory tract irritation.	100

Source : 100 - Firmendaten

Specific target organ toxicity (repeated exposure) [mg/kg]	Source
No known effect.	100

Source : 100 - Firmendaten

1,1'-(p-Tolylimino)dipropan-2-ol

Oral toxicity [mg/kg]	Test criterion	Test species	Source
45 mg/kg	LD50	rat	100

Source : 100 - Firmendaten

Dermal toxicity [mg/kg]	Test criterion	Test species	Source
2001 mg/kg	LD50	rat	100

Source : 100 - Firmendaten

<i>Irritant effect on skin</i>	<i>No skin irritation</i>
<i>Irritant effect on eyes</i>	<i>Irritant</i>
<i>Sensitization</i>	<i>No sensitization responses were observed.</i>
<i>Mutagenicity</i>	<i>negative</i>

11.2 Additional information

Experience in practice

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Irritating to eyes, respiratory system and skin. Irritating to mucous membranes

Safety Data Sheet as per regulation (EC) 1907/2006

Commercial Product Name : Caltech QC Detail S & W

Ref: M709FR

Revision Date : 14.01.2016

Version : 3.0 /en

ALUMASC

ROOFING SYSTEMS

Replaces version from : 14.01.2016

Print date : 27.01.2016

SECTION 12: Ecological information

12.1 Toxicity

Hazardous ingredients

METHYL METHACRYLATE

Toxicity to fish [mg/l]	Test criterion	Test species	Measuring method	Exposure duration	Source
191 mg/l	LC50	Oncorhynchus mykiss (rainbow trout)	OECD Test Guideline 203	96 h	100

Source : 100 - Firmendaten

Toxicity to daphnia [mg/l]	Test criterion	Test species	Exposure duration	Measuring method	Source
69 mg/l	EC 50	Daphnia magna (Water flea)	48 h	OECD Test Guideline 202	100

Source : 100 - Firmendaten

Toxicity to algae [mg/l]	Test criterion	Test species	Exposure duration	Measuring method	Source
>110 mg/l	EC 50	Selenastrum capricornutum (green algae)	72 h	OECD Test Guideline 201	100

Source : 100 - Firmendaten

NOEC (fish) [mg/l]	Test species	Measuring method	Source
9,4	Brachydanio rerio (zebra fish)	OECD Test Guideline 210	100

Source : 100 - Firmendaten

NOEC (daphnia) [mg/l]	Test species	Measuring method	Source
37	Daphnia magna (Water flea)	OECD Test Guideline 202	100

Source : 100 - Firmendaten

Biodegradability Readily biodegradable.

Method of analysis OECD 301C/ ISO 9408/ EEC 92/69/V, C.4-F

Bioaccumulation Does not bioaccumulate.

Mobility

Mobility Terrestrial Compartment Not relevant

2-ETHYLHEXYL ACRYLATE

Toxicity to fish [mg/l]	Test criterion	Test species	Measuring method	Exposure duration	Source
1,81	LC50	Oncorhynchus mykiss (rainbow trout)	OECD Test Guideline 203	96 h	100

Source : 100 - Firmendaten

Safety Data Sheet as per regulation (EC) 1907/2006

Commercial Product Name : Caltech QC Detail S & W

Ref: M709FR

Revision Date : 14.01.2016

Version : 3.0 /en

ALUMASC

ROOFING SYSTEMS

Replaces version from : 14.01.2016

Print date : 27.01.2016

Toxicity to daphnia [mg/l]	Test criterion	Test species	Exposure duration	Measuring method	Source
1,3	EC 50	Daphnia magna (Water flea)	48 h	OECD Test Guideline 202	100

Source : 100 - Firmendaten

Toxicity to algae [mg/l]	Test criterion	Test species	Exposure duration	Measuring method	Source
1,71	ErC50	Desmodesmus subspicatus	72 h	OECD Test Guideline 201	100

Source : 100 - Firmendaten

NOEC (algae) [mg/l]	Test species	Measuring method	Source
0,45	Desmodesmus subspicatus	OECD Test Guideline 201	100

Source : 100 - Firmendaten

Biodegradability Readily biodegradable.

Ready degradability

Bioaccumulation Bioaccumulation slight, log Pow 4,64

1,1`-(p-Tolylimino)dipropen-2-ol

Toxicity to fish [mg/l]	Test criterion	Test species	Exposure duration	Source
17	LC50	Brachydanio rerio (zebra fish)	96 h	100

Source : 100 - Firmendaten

Toxicity to daphnia [mg/l]	Test criterion	Test species	Exposure duration	Source
28,8	EC 50	Daphnia magna (Water flea)	18 h	100

Source : 100 - Firmendaten

Toxicity to algae [mg/l]	Test criterion	Test species	Exposure duration	Source
245	EC 50	Desmodesmus subspicatus	27 h	100

Source : 100 - Firmendaten

Biodegradability Poorly biodegradable.

Bioaccumulation no data available

12.5 Results of PBT and vPvB assessment

Results of PBT characteristics determination This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

12.6 Other adverse effects

Further information on ecology We have no quantitative data concerning the ecological effects of this product.

Safety Data Sheet as per regulation (EC) 1907/2006

Commercial Product Name : Caltech QC Detail S & W

Ref: M709FR

Revision Date : 14.01.2016

Version : 3.0 /en

ALUMASC

ROOFING SYSTEMS

Replaces version from : 14.01.2016

Print date : 27.01.2016

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal considerations

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. The following Waste Codes are only suggestions:

Waste Code

08 04 10: waste adhesives and sealants other than those mentioned in 08 04 09 The EWC Nr. only apply for the liquid product.

08 01 12: waste paint and varnish other than those mentioned in 08 01 11 The EWC Nr. only apply for the liquid product.




17 02 03: plastic This EWC Nr. only apply for the hardened product.

08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances

Uncleaned empty packaging

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SECTION 14: Transport information

	*Land transport ADR/RID	*Marine transport IMDG	*Air transport ICAO/IATA
14.1 UN-No	1263	1263	1263
14.2 Description of the goods	PAINT	PAINT	PAINT
14.2 UN proper shipping name		PAINT	Paint
14.3 Transport hazard class(es)	3	3	3
14.4 Packaging group	III	III	III
Labels	3 	3 	3 
Risk No.	30		
Category	3		
Factor	1		
Classification Code	F1		
SP 640	640E		
Tunnel restriction code	D/E		
Remarks	(einschließlich Farbe, Lack, Emaille, Beize, Schellack, Firnis, Politur, flüssiger Füllstoff und flüssige Lackgrundlage)	(including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)	(including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base)
EmS		F-E;_S-E	
Stowage category		A	

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not relevant

SECTION 15: Regulatory information

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

Additional regulations

Additionally, observe any national regulations!

Safety Data Sheet as per regulation (EC) 1907/2006

Commercial Product Name : Caltech QC Detail S & W

Ref: M709FR

Revision Date : 14.01.2016

Version : 3.0 /en

ALUMASC

ROOFING SYSTEMS

Replaces version from : 14.01.2016

Print date : 27.01.2016

SECTION 16: Other information

Relevant H-phrases

H225: Highly flammable liquid and vapour.
H300: Fatal if swallowed.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H335: May cause respiratory irritation.
H412: Harmful to aquatic life with long lasting effects.

Wording of the hazard classes

Flam. Liq.: Flammable liquid
Skin Irrit.: Skin irritation
Skin Sens.: Skin sensitization
STOT SE: Specific target organ toxicity – single exposure
Aquatic Chronic: Hazardous to the aquatic environment
Eye Irrit.: Serious eye irritation
Acute Tox.: Acute toxicity

*Modifications since last version

Modifications of the previous version are denoted with an asterisk (*).

*Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]

Classification	evaluation
Flam. Liq. 2; H225	
Skin Irrit. 2; H315	
Skin Sens. 1; H317	
STOT SE 3; H335	

Department issuing safety data sheet

Environmental Department

Further information

Full text of R-phrases referred to under sections 2 and 3

This information is provided in accordance with the current status of our knowledge and experience. The Safety Data Sheet describes products with a view to relevant safety requirements. This information does not constitute a warranty of properties, features or qualities.