

MATERIAL SAFETY DATA SHEET

Product name	QuelStop Ablative Coating
Product Code(s)	QCS5KG
Revision Date	01/01/2021
Revision number	02

Section 1: Identification of the substance/mixture and of the company / undertaking

1.1. Product identifier

Product name	QuelStop Ablative Coating
Product Code	QCS5KG
Type of Product	Surface coatings and colourants
Product Form	Mixture
Colour	White

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

Use of Substance/Mixture	PC9a: Coatings and paints, thinners, paint removers.
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1.3. Details of the supplier of the safety data sheet

Company Name	Quelfire Limited Springvale Industrial Estate Millbuck Way Sandbach CW11 3HT
Tel	0161 928 7308
Fax	0161 924 1340
Email	technical@quelfire.co.uk

1.4. Emergency telephone number

Emergency telephone number	0161 928 7308 (Office hours only)
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Section 2: Hazards Identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]	Not Classified
Adverse physicochemical, human health and environmental effects	To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 [CLP]	EUH208 – Contains reaction mass of 5-chloro-2methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction. EUH210 – Safety data sheet available on request
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2.3. Other hazards

No additional information available

Section 3: Composition/information on ingredients

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3.1. Substances

Not applicable

3.2. Mixtures

Name	Calcium Carbonate	Aluminium Hydroxide	Titanium Dioxide
Product Identifier	(CAS-No.) 471-34-1 (EC-No.) 207-439-9 (REACH-No.) 01-2119486795-18	(CAS-No.) 21645-51-2 (EC-No.) 244-492-7 (REACH-No.) 01-2119529246-39	(CAS-No.) 13463-67-7 (EC-No.) 236-675-5 (REACH-No.) 01-2119489379-17
%	30-50	10-30	1-10
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Not Classified	Not Classified	Not Classified

Section 4: First aid measures
4.1. Description of first aid measures

Skin contact	Wash skin with plenty of water
Eye contact	Rinse eyes with water as a precaution
Ingestion	Call a poison centre or a doctor if you feel unwell.
Inhalation	Remove person to fresh air and keep comfortable for breathing

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

Skin contact	There may be mild irritation at the site of contact
Eye contact	There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.
Ingestion	There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.
Inhalation	There may be irritation of the throat with a feeling of tightness in the chest.

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

Immediate/special treatment	Treat symptomatically
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Section 5: Fire-Fighting measures
5.1. Extinguishing media

Suitable Extinguishing Media	Water spray. Dry Powder. Foam. Carbon Dioxide
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5.2. Special hazards arising from the substance or mixture

Exposure hazards	Toxic fumes may be released
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5.3. Advice for fire-fighters

Advice for fire-fighters	Do not attempt to act without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing
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Section 6: Accidental release measures
6.1. Personal precautions, protective equipment and emergency procedures

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For Emergency responders	Do not attempt to act without suitable protective clothing - see section 8 'Exposure controls/ personal protection'.
For Non-emergency responders	Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid. Ventilate spillage area

6.2. Environmental precautions

Environmental	Avoid release into the environment
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6.3. Methods and materials for containment and cleaning up

Clean-up procedures	Take up liquid spill into absorbent material.
Other Information	Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

Reference to other sections	Refer to section 8 'Exposure controls/ personal protection' & Section 13 'Disposal considerations'.
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Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements	Ensure good ventilation of the workstation. Wear personal protective equipment
Hygiene measures	Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	Store in cool, well ventilated area. Keep container tightly closed.
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7.3. Specific end use(s)

No data available

Section 8: Exposure controls/personal protection

8.1. Control parameters

Calcium Carbonate (471-34-1)	
United Kingdom – Occupational Exposure Limits	
WEL TWA (mg/m ³)	4 mg/m ³
WEL STEL (mg/m ³)	4 mg/m ³

Aluminium Hydroxide (21645-51-2)	
United Kingdom – Occupational Exposure Limits	
WEL TWA (mg/m ³)	10 mg/m ³
WEL STEL (mg/m ³)	4 mg/m ³

Titanium Dioxide (13463-67-7)	
United Kingdom – Occupational Exposure Limits	
WEL TWA (mg/m ³)	4 mg/m ³ respirable 10 mg/m ³ total inhalable

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Regulatory reference	EH40/2005 (Fourth Edition, 2020). HSE
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8.2. Exposure controls

Engineering measures	Ensure there is sufficient ventilation of the area
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment
Hand protection	Protective gloves
Eye protection	Safety glasses. Ensure eye bath is to hand.
Skin protection	Suitable Protective clothing

Personal protective equipment symbol(s):



Environmental exposure controls: Avoid release to the environment.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State	Liquid
Colour	White
Odour	No Data Available
Odour Threshold	No Data Available
pH	5 - 9
Relative evaporation rate (butylacetate=1)	No Data Available
Melting point	Not applicable
Freezing point	No Data Available
Boiling point	No Data Available
Flash point	No Data Available
Auto-ignition temperature	No Data Available
Decomposition temperature	No Data Available
Flammability (solid, gas)	Not applicable
Vapour pressure	No Data Available
Relative vapour density at 20°C	No Data Available
Relative density	1.3 – 1.4
Solubility	No Data Available
Partition coefficient n-octanol/ water (Log Pow)	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

No data available

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Section 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (See section 7)

10.5. Incompatible materials

Oxidising agents. Strong acids

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition should not be produced.

Section 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified

Calcium Carbonate (471-34-1)

LD50 oral rat	>5000 mg/kg bodyweight Animal: rat, Animal sex: female, guideline: OECD Guideline 420 (acute Oral toxicity – Fixed Dose Method), Guideline: EU Method B.1 bis (Acute Oral Toxicity – Fixed Dose Procedure)
LC50 inhalation rat (mg/l)	>3 mg/l air Animal: rat Guideline OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EU Method B.2 (Acute Toxicity (inhalation)), Guideline: EPA OPPTS 870.1300 (Acute Inhalation Toxicity)
NOAEL (oral, rat, 90 days)	1000 mg/l Animal: rat, Guideline OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Development Toxicity Screening Test)

Aluminium Hydroxide (21645-51-2)

LD50 oral rat	>5000 mg/kg bodyweight Animal: rat, Animal sex: female, guideline: OECD Guideline 423 (Acute Oral Toxicity – Acute Toxic Class Method)
NOAEL (animal/male, F0/P)	1000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction/ Development Toxicity Screening Test)
NOAEC (Inhalation, rat, dust/mist/fume, 90 days)	0.07 mg/l air Animal: rat, Guideline: OECD Guideline 413 (sub chronic Inhalation Toxicity: 90-Day Study)

Titanium Dioxide (13463-67-7)

LD50 oral rat	>5000 mg/kg bodyweight Animal: rat, Animal sex: female, guideline: OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity)
LC50 inhalation rat (mg/l)	>6.8 mg/l/ah
Skin corrosion/ Irritation	Not classified

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	pH: 5 - 9
Serious eye damage/ Irritation	Not classified pH: 5 - 9
Respiratory or skin sensitisation	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT-single exposure	Not classified
STOT-repeated exposure	Not classified
Aspiration hazard	Not classified

Section 12: Ecological information

12.1. Toxicity

Ecology – general	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment
Hazardous to the aquatic environment, short term (acute)	Not classified
Hazardous to the aquatic environment, long term (chronic)	Not classified
Not rapidly degradable	

Calcium Carbonate (471-34-1)	
LC50 fish 1	>10000
EC50 Daphnia 1	>1000
EC50 72h algae (1)	>200 mg/l

Titanium Dioxide (13463-67-7)	
LC50 fish 1	>10000 mg/l
EC50 Daphnia 1	>1000 mg/l
EC50 72h algae (1)	>61 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC (chronic)	≥2.92 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Calcium Carbonate (471-34-1)	
Partition coefficient n-octanol/water (Log Pow)	<1

12.4. Mobility in soil

Ecology - soil	Readily absorbed into soil.
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12.5 Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

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Section 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	Disposal must be done according to official regulations.
Waste treatment methods	Dispose of contents/ container in accordance with licensed collector's sorting instructions

Section 14: Transport information

In accordance with ADR/ RID/ IMDG/ IATA/ ADN	
ADR	Not Applicable
RID	Not Applicable
IMDG	Not Applicable
IATA	Not Applicable
ADN	Not Applicable
No supplementary information available	

14.6. Special Precautions for user

Overland Transport	Not Applicable
Transport by sea	Not Applicable
Air transport	Not Applicable
Inland waterway transport	Not Applicable
Rail transport	Not Applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code.

Not Applicable

Section 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH annex XIV substances
Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 th July 2012 concerning the export and import of hazardous chemicals
Contains no substance subject to Regulation (EU) No 209/1021 of the European Parliament and of the Council of 20 th June 2019 on persistent organic pollutants.

15.1.2 National Regulations

No additional information available

15.2. Chemical Safety Assessment

Chemical Safety Assessment	No chemical safety assessment has been carried out
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Section 16: Other information

Abbreviations and acronyms	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of dangerous goods by Road

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ATE	Acute Toxicity Estimate
BLV	Biological Limit Value
CAS-No.	Chemical Abstract Service Number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 272/2008
DMEL	Derived Minimal Effect Level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC-No.	European Community Number
EN	European Standard
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative
WGK	Water Hazard Class
Full Text of H- and EUH- statement	
EUH208	Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.
EUH210	Safety Data sheet available on request

The Classification complies with ATP 12

Other information	This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.
Legal disclaimer	The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.