

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 19/08/2015 Revision date: 22/08/2023 Supersedes version of: 19/08/2015 Version: 2.0

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

1.1. Product identifier

Product form : Mixture
Product name : Quikturn 60G

UFI : HQC4-H0X4-300V-VS8X

CAS-No. : Mixture
Product code : 1581
Product group : Finished Good

Other means of identification : Alumina-Silicate Cement Bonded Castable

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial use Use of the substance/mixture : Refractory

1.2.2. Uses advised againstNo additional information available

1.3. Details of the supplier of the safety data sheet

Resco Products (UK) Limited

Newbold Works, Melbourne Road, Lount

LE65 1PL Ashby-de-la-Zouch

England

T 44 (0) 1530 222694

<u>UK.SDS@RescoProducts.com</u> - <u>www.RescoProducts.com</u>

1.4. Emergency telephone number

Emergency number : EMERGENCY ONLY (CHEMTREC) USA & Canada 1-800-424-9300

Outside USA & Canada +1 703-741-5970

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Specific target organ toxicity - Repeated exposure, Category 2 H373

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

This product contains Quartz (Fine Fraction) between 0.1 to 10% and is classified as STOT RE 2 according to criteria defined in the Regulation EC 1272/2008 and does not meet the criteria for classification as harmful according to directive 67/548/EC.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :





GHS08

GHS07

Signal word (CLP) : Warning

Hazard statements (CLP) : H373 - May cause damage to organs (respiratory system) through prolonged or repeated

exposure (if inhaled).

Precautionary statements (CLP) : P260 - Do not breathe dust.

P280 - Wear eye protection, protective gloves.

P284 - In case of inadequate ventilation wear respiratory protection.

P314 - Get medical advice/attention if you feel unwell.

2.3. Other hazards

Other hazards which do not result in classification : Irritating to eyes and skin.

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Contains no FBT and/or VFVB substances 2 0.170 assessed in accordance with NEACH Annex Ann		
Component		
aluminium oxide, non-fibrous (1344-28-1) This substance/mixture does not meet the PBT criteria of REACH regulation, annex		
	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
cristobalite EU (14464-46-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
quartz, 1%≤conc respirable crystalline silica<10%	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
(14808-60-7)	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
aluminium oxide, non-fibrous	CAS-No.: 1344-28-1 EC-No.: 215-691-6	5 – 10	Not classified
Calcium Aluminate Cement	CAS-No.: 65997-16-2 EC-No.: 266-045-5	1 – 5	Not classified
quartz, 1%≤conc respirable crystalline silica<10%	CAS-No.: 14808-60-7 EC-No.: 238-878-4	1 – 5	STOT RE 1, H372
cristobalite EU	CAS-No.: 14464-46-1 EC-No.: 238-455-4	0.1 – 0.5	STOT RE 2, H373

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

First-aid measures after inhalation Allow affected person to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact Gently wash with plenty of soap and water.

First-aid measures after eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. First-aid measures after ingestion

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

Symptoms/effects after inhalation May cause cancer by inhalation. Danger of serious damage to health by prolonged

exposure through inhalation. Symptoms/effects after skin contact Causes skin irritation. Symptoms/effects after eye contact Causes eye irritation.

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 Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media In case of fire, all extinguishing media allowed.

5.2. Special hazards arising from the substance or mixture

Fire hazard Not flammable. Explosion hazard None. Hazardous decomposition products in case of fire None.

5.3. Advice for firefighters

Firefighting instructions Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering

the environment.

Protection during firefighting Do not enter fire area without proper protective equipment, including respiratory protection.

Self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Safety glasses. [In case of inadequate ventilation] wear respiratory protection. Protective Protective equipment

gloves.

Emergency procedures Do not breathe dust. Avoid contact with skin and eyes.

Measures in case of dust release 6.1.2. For emergency responders

Ventilate area.

Protective equipment

Emergency procedures

Equip cleanup crew with proper protection. Use personal protective equipment as required.

For further information refer to section 8: "Exposure controls/personal protection".

Ventilate area. On land, sweep or shovel into suitable containers.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

Mechanically recover the product. On land, sweep or shovel into suitable containers. Methods for cleaning up

Minimise generation of dust.

6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Avoid raising dust. Avoid contact with skin and eyes. Do not breathe dust.

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Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store this product in a dry location where it can be protected from the elements.

Incompatible materials : Strong acids, bases.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

aluminium oxide, non-fibrous (1344-28-1)	
Belgium - Occupational Exposure Limits	
OEL TWA	1 mg/m³
France - Occupational Exposure Limits	
VME (OEL TWA)	10 mg/m ³
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	10 mg/m ³
	4 mg/m³
Norway - Occupational Exposure Limits	
Grenseverdi (OEL TWA) [1]	10 mg/m³
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	1 mg/m³ respirable dust
cristobalite EU (14464-46-1)	
Belgium - Occupational Exposure Limits	
OEL TWA	0.05 mg/m³
France - Occupational Exposure Limits	
VME (OEL TWA)	0.05 mg/m³ (La valeur limite concerne la fraction alvéolaire)
Netherlands - Occupational Exposure Limits	
TGG-8u (OEL TWA)	0.075 mg/m³ (respirabele fractie)
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	0.1 mg/m³
Norway - Occupational Exposure Limits	
Grenseverdi (OEL TWA) [1]	0.05 mg/m ³
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	0.025 mg/m³ (Respirable fraction)
quartz, 1%≤conc respirable crystalline silica<	:10% (14808-60-7)
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	0.1 mg/m³ (Respirable fraction)
Belgium - Occupational Exposure Limits	
OEL TWA	0.1 mg/m³
France - Occupational Exposure Limits	
VME (OEL TWA)	0.1 mg/m³ (La valeur limite concerne la fraction alvéolaire)
Netherlands - Occupational Exposure Limits	
TGG-8u (OEL TWA)	0.075 mg/m³ (respirabele fractie)
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	0.1 mg/m³
Norway - Occupational Exposure Limits	
Grenseverdi (OEL TWA) [1]	0.1 mg/m³
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	0.025 mg/m³ (Respirable fraction)
0.4.2. Decemmended manifesting precedures	

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure.

8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses. Safety glasses

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8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Wear protective gloves.

8.2.2.3. Respiratory protection

Respiratory protection:

Wear appropriate mask

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid Colour : Grey.

Appearance : Granular mixture.

Odour earthy. Odour threshold Not available > 1649 °C Melting point Freezing point Not available **Boiling point** Not available Flammability Not flammable Lower explosion limit Not applicable Upper explosion limit Not applicable Flash point Not applicable Auto-ignition temperature Not applicable

Decomposition temperature : Not available pH : ≈ 10.5 pH solution concentration : 10 % Viscosity, kinematic : Not Applicable

Solubility : Slightly soluble. Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : Not available Vapour pressure at 50° C : Not available Density : Not available Relative density : ≈ 1.2 Relative vapour density at 20° C : Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Critical temperature : Not applicable

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Particle size

Hydraulic setting.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Avoid dust formation.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Not available

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

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aluminium oxide, non-fibrous (1344-28-1)	
LD50 oral rat	> 15900 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
LC50 Inhalation - Rat	> 2.3 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 14 day(s))
Skin corrosion/irritation	: Not classified (Conclusive but not sufficient for classification) pH: ≈ 10.5
Additional information	: Causes skin irritation.
Calcium Aluminate Cement (65997-16-2)	
рН	≤ 13
aluminium oxide, non-fibrous (1344-28-1)	
рН	9 – 10.5 (aqueous suspension, 33 %)
cristobalite EU (14464-46-1)	
рН	6 – 7
quartz, 1%≤conc respirable crystalline silica	<10% (14808-60-7)
рН	6 – 7
Serious eye damage/irritation	: Not classified (Conclusive but not sufficient for classification) pH: ≈ 10.5
Additional information	: Causes eye irritation
Calcium Aluminate Cement (65997-16-2)	
рН	≤ 13
aluminium oxide, non-fibrous (1344-28-1)	
рН	9 – 10.5 (aqueous suspension, 33 %)
cristobalite EU (14464-46-1)	
рН	6 – 7
quartz, 1%≤conc respirable crystalline silica	<10% (14808-60-7)
рН	6 – 7
Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity Additional information Reproductive toxicity STOT-single exposure STOT-repeated exposure	 Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data, the classification criteria are not met) Not classified (Conclusive but not sufficient for classification) May cause cancer by inhalation. Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data, the classification criteria are not met) May cause damage to organs (respiratory system) through prolonged or repeated exposure (if inhaled). (Based on available data, the classification criteria are not met)
cristobalite EU (14464-46-1)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure (if inhaled).
quartz, 1%≤conc respirable crystalline silica	<10% (14808-60-7)
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure (if inhaled).
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
Quikturn 60G (Mixture)	
Viscosity, kinematic	Not Applicable
aluminium oxide, non-fibrous (1344-28-1)	
Viscosity, kinematic	Not applicable (solid)
quartz, 1%≤conc respirable crystalline silica	<10% (14808-60-7)
Viscosity, kinematic	Not applicable (solid)
11.2. Information on other hazards	

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties No additional information available

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11.2.2.	Other	inf	ormat	ion
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Potential adverse human health effects and : Based on available data, the classification criteria are not met

symptoms

SECTION 12: Ecological information

	. To	

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

: Not classified

Hazardous to the aquatic environment, long-term : Not classified

(chronic)

aluminium	oxide.	non-fibrous	(1344-28-1)
aidiiiiiiiiiiiiii	OAIGO	HOLL HINLOUS	(1077 20 1)

LC50 - Fish [1]	> 100 mg/l (96 h, Salmo trutta, Literature study)
EC50 - Crustacea [1]	> 100 mg/l (48 h, Daphnia magna, Literature study)

12.2. Persistence and degradability

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Persistence and degradability Not established.

aluminium oxide, non-fibrous (1344-28-1)

Persistence and degradability	Not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable

cristobalite EU (14464-46-1)

Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

guartz, 1%≤conc respirable crystalline silica<10% (14808-60-7)

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Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)

12.3. Bioaccumulative potential

Quikturn 60G (Mixture)

Bioaccumulative potential	Not established.
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aluminium oxide, non-fibrous (1344-28-1)

No data available. Bioaccumulative potential

cristobalite EU (14464-46-1)

No data available. Bioaccumulative potential

quartz, 1%≤conc respirable crystalline silica<10% (14808-60-7)

Bioaccumulative potential No bioaccumulation data available.

12.4. Mobility in soil

aluminium oxide, non-fibrous (1344-28-1)

Surface tension	No data available in the literature	
Ecology - soil	No data available.	
cristobalite EU (14464-46-1)		
Ecology - soil	No data available.	
guerta 10/Coope respirable exceptabline cilias/100/ (14909 60.7)		

quartz, 1%≤conc respirable crystalline silica<10% (14808-60-7)

Surface tension No data available in the literature Ecology - soil Low potential for mobility in soil.

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12.5. Results of PBT and vPvB assessment	
Component	
aluminium oxide, non-fibrous (1344-28-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
cristobalite EU (14464-46-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
quartz, 1%≤conc respirable crystalline silica<10%	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

(14808-60-7)

Additional information : No other effects known

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations

Ecology - waste materials HP Code

- Dispose in a safe manner in accordance with local/national regulations.
- Avoid release to the environment.
- HP5 "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration.

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID

14.1. UN number or ID number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (ADR) Not regulated Proper Shipping Name (IMDG) Not regulated Proper Shipping Name (IATA) Not regulated Proper Shipping Name (RID) Not regulated

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR)

IMDG

Transport hazard class(es) (IMDG)

IATA Transport hazard class(es) (IATA)

RID

: Not regulated

Transport hazard class(es) (RID)

: Not regulated

: Not regulated

: Not regulated

14.4. Packing group

Packing group (ADR) Not regulated Packing group (IMDG) Not regulated Packing group (IATA) Not regulated Not regulated Packing group (RID)

14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant No

Other information No supplementary information available

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated Air transport

Not regulated

Rail transport Not regulated

14.7. Maritime transport in bulk according to IMO instruments

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

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

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REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer) Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

France

Occupational diseases	
Code	Description
RG 25	Diseases resulting from the inhalation of mineral dust containing crystalline silica (quartz, cristobalite, tridymite), crystalline silicates (kaolin, talc), graphite or coal.

Germany

Water hazard class (WGK)

: Not classified according to Regulation Governing Systems for Handling Substances Hazardous to Waters (AwSV).

Hazardous Incident Ordinance (12. BlmSchV)
Netherlands

: Is not subject to the Hazardous Incident Ordinance (12. BImSchV)

SZW-lijst van kankerverwekkende stoffen

Calcium Aluminate Cement, cristobalite EU, quartz, 1%≤conc respirable crystalline

silica<10% are listed

SZW-lijst van mutagene stoffen

: Calcium Aluminate Cement is listed : None of the components are listed

SZW-lijst van reprotoxische stoffen – Borstvoeding SZW-lijst van reprotoxische stoffen –

None of the components are listedNone of the components are listed

Vruchtbaarheid

: None of the components are listed

SZW-lijst van reprotoxische stoffen - Ontwikkeling

. None of the components are listed

DenmarkDanish National Regulations

Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Other information : Report language name. English. In the e

Report language name. English. In the event of any conflict between the English and other language versions, the English version shall prevail.

	language versions, the English version shall provail.
Full text of H- and EUH-statements:	
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2

Safety Data Sheet (SDS), EU

Although reasonable care has been taken in the preparation of the information contained herein, Resco extends no warranties, makes no representation and assumes no responsibilty as to the accuracy or suitability of such information for application to purchaser's intended purposes or for consequences of its use.

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