



SAFETY DATA SHEET

QSII12A

RS REACH MSDS Date 01/10/08

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME	QSII12A		
SUPPLIER	ACC SILICONES LIMITED Amber House, Showground Rd Bridgwater, Somerset TA6 6AJ TEL: +44 (0)1278 411400 FAX: +44 (0)1278 411444 sdsadmin@acc-silicones.com	MANUFACTURER	QUANTUM SILICONES INC. LLC 8021 Reycan Rd, Richmond VA 23237 USA TEL: +1 (804) 271 9010 FAX: +1 (804) 271 9055
EMERGENCY TELEPHONE	DEUTSCHLAND +49 613 3162 91880 (24hrs) ITALIA +39 029880913 (24hrs) UK +44 (0)1278 411400 (24hrs)		Supplied by: RS Components Ltd. , Birchington Road, Corby, Northants, NN17 9RS. Tel: +44 (0) 1536 402888 (8am to 8pm) Email: technical.help@rs-components.com

2 HAZARDS IDENTIFICATION

Not regarded as a health or environmental hazard under current legislation.

3 COMPOSITION/INFORMATION ON INGREDIENTS

4 FIRST-AID MEASURES

INHALATION

Remove victim immediately from source of exposure. Get medical attention if any discomfort continues.

INGESTION

DO NOT induce vomiting. Get medical attention immediately.

SKIN CONTACT

Promptly flush contaminated skin with soap or mild detergent and water. Promptly remove clothing if penetrated and flush the skin with water. Get medical attention if irritation persists after washing.

EYE CONTACT

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists continue rinsing and transport to hospital taking these instructions.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Use fire-extinguishing media appropriate for surrounding materials. Water spray, foam, dry powder or carbon dioxide.

SPECIAL FIRE FIGHTING PROCEDURES

Avoid breathing fire vapours. Use pressurised air mask if product is involved in a fire.

UNUSUAL FIRE & EXPLOSION HAZARDS

No unusual fire or explosion hazards noted.

SPECIFIC HAZARDS

Fire creates: Toxic gases/vapours/fumes of Carbon monoxide (CO). Carbon dioxide (CO2).

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet.

SPILL CLEAN UP METHODS

Absorb in vermiculite, dry sand or earth and place into containers. For waste disposal, see section 13.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Avoid spilling, skin and eye contact.

QSI12A**STORAGE PRECAUTIONS**

Store in tightly closed original container in a dry, cool and well-ventilated place.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION**PROTECTIVE EQUIPMENT****ENGINEERING MEASURES**

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace exposure limit is not exceeded.

RESPIRATORY EQUIPMENT

No specific recommendations.

HAND PROTECTION

For prolonged or repeated skin contact use suitable protective gloves.

EYE PROTECTION

Wear approved safety goggles.

HYGIENE MEASURES

No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Viscous liquid		
COLOUR	Colourless		
ODOUR	No characteristic odour.		
SOLUBILITY	Immiscible with water Miscible with Aromatic solvents Chloroform Hydrocarbons.		
BULK DENSITY	1.00	FLASH POINT (°C)	>150 CC (Closed cup).
AUTO IGNITION	>400		
TEMPERATURE (°C)			

10 STABILITY AND REACTIVITY**STABILITY**

No particular stability concerns.

MATERIALS TO AVOID

Strong oxidising substances.

HAZARDOUS DECOMPOSITION PRODUCTS

Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂). Oxides of: Silicon.

11 TOXICOLOGICAL INFORMATION**INHALATION**

No specific health warnings noted.

INGESTION

No specific health warnings noted.

SKIN CONTACT

Skin irritation is not anticipated when used normally.

EYE CONTACT

May cause temporary eye irritation.

HEALTH WARNINGS

This product has low toxicity. Only large volumes may have adverse impact on human health.

12 ECOLOGICAL INFORMATION

QSII12A**ECOTOXICITY**

The product is not expected to be hazardous to the environment.

BIOACCUMULATION

The product does not contain any substances expected to be bioaccumulating.

13 DISPOSAL CONSIDERATIONS**GENERAL INFORMATION**

Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION

GENERAL	The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).		
ADR CLASS	Not classified for transportation.	MARINE POLLUTANT	No.

15 REGULATORY INFORMATION**RISK PHRASES**

NC Not classified.

SAFETY PHRASES

NC Not classified.

EU DIRECTIVES

Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EEC.

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply.

GUIDANCE NOTES

Workplace Exposure Limits EH40.

NATIONAL REGULATIONS

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689. Control of Substances Hazardous to Health Regulations 2002 (as amended) The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2007 (CDG 2007)

16 OTHER INFORMATION**REVISION COMMENTS**

NOTE: Lines within the margin indicate significant changes from the previous revision.

REVISION DATE 11/09/2008

REV. NO./REPL. SDS GENERATED 4

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.



SAFETY DATA SHEET

QSi12C

RS REACH MSDS Date 01/10/08

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME	QSi12C		
SUPPLIER	ACC SILICONES LIMITED Amber House, Showground Rd Bridgwater, Somerset TA6 6AJ TEL: +44 (0)1278 411400 FAX: +44 (0)1278 411444 sdsadmin@acc-silicones.com	MANUFACTURER	QUANTUM SILICONES INC. LLC 8021 Reycan Rd, Richmond VA 23237 USA TEL: +1 (804) 271 9010 FAX: +1 (804) 271 9055
EMERGENCY TELEPHONE	DEUTSCHLAND +49 613 3162 91880 (24hrs) ITALIA +39 029880913 (24hrs) UK +44 (0)1278 411400 (24hrs)	Supplied by: RS Components Ltd, Birchington Road, Corby, Northants, NN17 9RS. Tel: +44 (0) 1536 402888 (8am to 8pm) Email: technical.help@rs-components.com	

2 HAZARDS IDENTIFICATION

Causes burns. Harmful: danger of serious damage to health by prolonged exposure if swallowed. Harmful: may cause lung damage if swallowed.

CLASSIFICATION Xn;R48/22, R65. C;R34.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
3-AMINOPROPYLTRIETHOXYSILANE	213-048-4	919-30-2	10-30%	C;R34 Xn;R22
Dimethylbis[(1-oxoneodecyl)oxy] stannane		68928-76-7	10-30%	Xn;R22,R48/22. R52/53.
ODOURLESS KEROSENE	265-149-8	64742-47-8	60-100%	Xn;R65. R66.
TETRAETHYL SILICATE	201-083-8	78-10-4	1-5%	R10 Xn;R20 Xi;R36/37

The Full Text for all R-Phrases are Displayed in Section 16

4 FIRST-AID MEASURES

INHALATION

Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. Get medical attention if any discomfort continues.

INGESTION

DO NOT induce vomiting. Get medical attention immediately.

SKIN CONTACT

Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water.

EYE CONTACT

Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Extinguish with foam, carbon dioxide or dry powder.

SPECIFIC HAZARDS

Fire creates: Toxic gases/vapours/fumes of Carbon monoxide (CO). Carbon dioxide (CO₂). Nitrous gases (NO_x).

PROTECTIVE MEASURES IN FIRE

Use air-supplied respirator during fire fighting.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet.

QSi12C**ENVIRONMENTAL PRECAUTIONS**

Avoid discharge into drains, water courses or onto the ground. The product should not be dumped in nature but collected and delivered according to agreement with the local authorities.

SPILL CLEAN UP METHODS

Absorb in vermiculite, dry sand or earth and place into containers. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

7 HANDLING AND STORAGE**USAGE PRECAUTIONS**

Avoid spilling, skin and eye contact. Keep away from heat, sparks and open flame.

STORAGE PRECAUTIONS

Store in tightly closed original container in a dry, cool and well-ventilated place.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
Dimethylbis[(1-oxoneodecyl)oxy] stannane	WEL		0.1 mg/m3		0.2 mg/m3	
ODOURLESS KEROSENE	WEL	165 ppm	1200 mg/m3			

WEL = Workplace Exposure Limit.

PROTECTIVE EQUIPMENT**ENGINEERING MEASURES**

Provide adequate ventilation. Observe Workplace Exposure Limits and minimise the risk of inhalation of vapours.

RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Workplace Exposure Limit.

HAND PROTECTION

Protective gloves must be used if there is a risk of direct contact or splash.

EYE PROTECTION

Wear approved safety goggles.

HYGIENE MEASURES

No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Clear liquid		
COLOUR	Colourless		
ODOUR	Characteristic Chemical.		
SOLUBILITY	Soluble in Hydrocarbons.		
RELATIVE DENSITY	0.84	VISCOSITY	15 mPas 25
FLASH POINT (°C)	75 PM (Closed Cup)		

10 STABILITY AND REACTIVITY**STABILITY**

No particular stability concerns.

CONDITIONS TO AVOID

Avoid contact with oxidisers or reducing agents. Avoid contact with: Water, moisture.

11 TOXICOLOGICAL INFORMATION

QSiI12C**INHALATION**

Gas or vapour may irritate respiratory system.

INGESTION

Harmful: danger of serious damage to health by prolonged exposure if swallowed.

SKIN CONTACT

Irritating to skin.

EYE CONTACT

Irritation, burning, lachrymation, blurred vision after liquid splash.

Name	TETRAETHYL SILICATE
Toxic Dose 1 - LD 50	>2000 mg/kg (oral rat)
Toxic Conc. - LC 50	10 mg/l/4h (inh-rat)

12 ECOLOGICAL INFORMATION**ECOTOXICITY**

The product contains a substance which causes risk of hazardous effects to the environment.

MOBILITY

The product is insoluble in water and will spread on the water surface.

Name	TETRAETHYL SILICATE
LC 50, 96 Hrs, FISH mg/l	24500
EC 50, 48 Hrs, DAPHNIA, mg/l	>84400

13 DISPOSAL CONSIDERATIONS**DISPOSAL METHODS**

Incinerate in suitable combustion chamber.

14 TRANSPORT INFORMATION

UK ROAD CLASS	8		
PROPER SHIPPING NAME	CORROSIVE LIQUID, N.O.S. (3-AMINOPROPYLTRIETHOXYSILANE)		
UN NO. ROAD	1760	UK ROAD PACK GR.	III
ADR CLASS NO.	8	ADR CLASS	Class 8: Corrosive substances.
ADR PACK GROUP	III	HAZARD NO. (ADR)	80
ADR LABEL NO.	8	HAZCHEM CODE	2X
CEFCI TEC(R) NO.	80GC9-II+III	RID CLASS NO.	8
RID PACK GROUP	III	UN NO. SEA	1760
IMDG CLASS	8	IMDG PAGE NO.	8
IMDG PACK GR.	III	EMS	F-A, S-B
MFAG	See Guide	MARINE POLLUTANT	No.
UN NO. AIR	1760	AIR CLASS	8
AIR PACK GR.	III		

15 REGULATORY INFORMATION**LABELLING**

Corrosive



Harmful

QSi12C

CONTAINS

3-AMINOPROPYLTRIETHOXYSILANE
Dimethylbis[(1-oxoneodecyl)oxy] stannane
ODOURLESS KEROSENE

RISK PHRASES

R34 Causes burns.
R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R65 Harmful: may cause lung damage if swallowed.

SAFETY PHRASES

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S24/25 Avoid contact with skin and eyes.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S60 This material and its container must be disposed of as hazardous waste.

EU DIRECTIVES

Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EEC.

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply.

GUIDANCE NOTES

Workplace Exposure Limits EH40.

NATIONAL REGULATIONS

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689. Control of Substances Hazardous to Health
Regulations 2002 (as amended) The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2007 (CDG
2007)

16 OTHER INFORMATION

REVISION COMMENTS

NOTE: Lines within the margin indicate significant changes from the previous revision.

REVISION DATE 11/09/2008

REV. NO./REPL. SDS GENERATED 4

RISK PHRASES IN FULL

R34 Causes burns. , R10 Flammable. , R20 Harmful by inhalation. , R22 Harmful if swallowed. , R52/53
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. , R48/22
Harmful: danger of serious damage to health by prolonged exposure if swallowed. , R65 Harmful: may
cause lung damage if swallowed. , R36/37 Irritating to eyes and respiratory system. , R66 Repeated
exposure may cause skin dryness or cracking.

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.