



SAFETY DATA SHEET

AS1701

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

PRODUCT NAME AS1701

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

EMERGENCY TELEPHONE DEUTSCHLAND +49 613 3162 91880 (24hrs)
ITALIA +39 029880913 (24hrs)
UK +44 (0)1278 411400 (24hrs)

2 HAZARDS IDENTIFICATION

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

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
METHYLTRIMETHOXY SILANE		1185-55-3	1-5%	Xi;R36/38. F;R11.
TETRA-ISOPROPYL TITANATE		546-68-9	1-5%	Xi;R36/38. R10,R67.
VINYLTRIMETHOXY SILANE		2768-02-7	1-5%	Xn;R20. R10.

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

4 FIRST-AID MEASURES

INHALATION

Remove victim immediately from source of exposure. Move into fresh air and keep at rest. 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.

SPECIAL FIRE FIGHTING PROCEDURES

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

SPECIFIC HAZARDS

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

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.

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7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Do not use in confined spaces without adequate ventilation and/or respirator.

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
		ppm(Sk)	mg/m3(Sk)	ppm(Sk)	mg/m3(Sk)	
METHANOL	WEL	200	266	250	333	
		ppm(Sk)	mg/m3(Sk)	ppm(Sk)	mg/m3(Sk)	

WEL = Workplace Exposure Limit.

INGREDIENT COMMENTS

(*) Ingredient is given off as fumes.

PROTECTIVE EQUIPMENT



ENGINEERING MEASURES

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

RESPIRATORY EQUIPMENT

If ventilation is insufficient, suitable respiratory protection must be provided.

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	Paste		
COLOUR	Black		
ODOUR	Odour of alcohol		
SOLUBILITY	Immiscible with water Miscible with Aromatic solvents Chloroform Hydrocarbons.		
BULK DENSITY	1.30	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. Water, steam, water mixtures.

HAZARDOUS DECOMPOSITION PRODUCTS

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

11 TOXICOLOGICAL INFORMATION

INHALATION

Vapour may irritate respiratory system or lungs.

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SKIN CONTACT

Liquid may irritate skin.

EYE CONTACT

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

HEALTH WARNINGS

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

Name	TETRA-ISOPROPYL TITANATE
Toxic Dose 1 - LD 50	7460 mg/kg (oral rat)
Name	VINYLTRIMETHOXY SILANE
Toxic Dose 1 - LD 50	>7300 mg/kg (oral rat)

12 ECOLOGICAL INFORMATION

ECOTOXICITY

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

Name	VINYLTRIMETHOXY SILANE
LC 50, 96 Hrs, FISH mg/l	>100
EC 50, 48 Hrs, DAPHNIA, mg/l	>100

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.

14 TRANSPORT INFORMATION

	No transport warning sign required.		
ADR CLASS	Not classified for transportation.	MARINE POLLUTANT	No.

15 REGULATORY INFORMATION

RISK PHRASES

NC Not classified.

SAFETY PHRASES

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S51 Use only in well-ventilated areas.
 S24/25 Avoid contact with skin and eyes.
 P13 Safety data sheet available for professional user on request.

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	21/08/2007
REV. NO./REPL. SDS GENERATED	4

RISK PHRASES IN FULL

R10 Flammable. , R20 Harmful by inhalation. , R11 Highly flammable. , R36/38 Irritating to eyes and skin. , R67 Vapours may cause drowsiness and dizziness.

AS1701**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.