

## **AS1700**

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## Safety data sheet

#### SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name AS1700

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

Intended use Adhesive sealant.

1.3. Details of the supplier of the safety data sheet

Name ACC Silicones LTD

Full address Amber House Showground Road

District and Country TA6 6AJBridgwater (Somerset)

England

Tel. +44(0)1278411400 Fax +44(0)1278411444

e-mail address of the competent person

responsible for the Safety Data Sheet sean.stoodley@acc-silicones.com

1.4. Emergency telephone number

For urgent inquiries refer to For all enquiries except Sweden: +44(0)1278411400

Sweden: Ring 112 vid inträffade förgiftningstillbud och begär giftinformation -

dygnet runt.

Ring 010-456-6700 i mindre brådskande fall - dygnet runt. Allmänna och

förebyggande frågor om

akuta förgiftningar besvaras vardagar kl 9-17.

#### SECTION 2. Hazards identification.

#### 2.1. Classification of the substance or mixture.

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements).

Hazard classification and indication: --

#### 2.2. Label elements.

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms: --

Signal words:

Hazard statements:

**EUH210** Safety data sheet available on request.

Precautionary statements: --

#### 2.3. Other hazards.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

#### SECTION 3. Composition/information on ingredients.

#### 3.1. Substances.

Information not relevant.



## **AS1700**

Flam. Liq. 2 H225

STOT SE 1 H370

Substance with a community workplace exposure limit.

Flam. Liq. 3 H226, Eye Irrit. 2 H319, STOT SE 3 H336

Flam. Liq. 3 H226, Acute Tox. 4 H332, STOT RE 2 H373

Flam. Liq. 2 H225, Carc. 2 H351, Acute Tox. 3 H301, Acute Tox. 3 H311, Acute Tox. 3 H331,

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#### SECTION 3. Composition/information on ingredients. />

3.2. Mixtures.

Contains:

Identification. Conc. %. Classification 1272/2008 (CLP).

AMORPHOUS SILICATE HYDRATE

CAS. 7631-86-9 10 - 30

EC. 231-545-4

INDEX.

Reg. no. 01-2119379499-16-0134 TRIMETHOXY (METHYL) SILANE

CAS. 1185-55-3 1 - 5

EC. 214-685-0

INDEX.

Reg. no. 01-2119517436-40
TETRA-ISOPROPYLTITANATE

CAS. 546-68-9 1 - 5

EC. 208-909-6

INDEX.

Reg. no. 01-2119967389-17 VINYLTRIMETHOXYSILANE

CAS. 2768-02-7 1 - 5

EC. 220-449-8

INDEX.

Reg. no. 01-2119513215-52

**METHANOL** 

CAS. 67-56-1 0 - 0.1

EC. 200-659-6 INDEX. 603-001-00-X Reg. no. 01-2119433307-44

Note: Upper limit is not included into the range.

The full wording of hazard (H) phrases is given in section 16 of the sheet.

#### **SECTION 4. First aid measures.**

#### 4.1. Description of first aid measures.

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorised by a doctor.

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

For symptoms and effects caused by the contained substances, see chap. 11.

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

Information not available.

#### **SECTION 5. Firefighting measures.**

#### 5.1. Extinguishing media.

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

#### 5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.



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SECTION 5. Firefighting measures. />>

#### 5.3. Advice for firefighters.

**GENERAL INFORMATION** 

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

#### SECTION 6. Accidental release measures.

#### 6.1. Personal precautions, protective equipment and emergency procedures.

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

#### 6.2. Environmental precautions.

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

#### 6.3. Methods and material for containment and cleaning up.

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Check incompatibility for container material in section 7. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.

#### SECTION 7. Handling and storage.

#### 7.1. Precautions for safe handling.

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

#### 7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. Store in a well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

#### 7.3. Specific end use(s).

Information not available.

#### SECTION 8. Exposure controls/personal protection.

#### 8.1. Control parameters.

#### Regulatory References:

CZE	Česká Republika	Nařízení vlády č. 361/2007 Sb. kterým se stanoví podmínky ochrany zdraví při práci
DEU	Deutschland	MAK-und BAT-Werte-Liste 2012
DNK	Danmark	Graensevaerdier per stoffer og materialer
ESP	España	INSHT - Límites de exposición profesional para agentes químicos en España 2015
FIN	Suomi	HTP-arvot 2012. Haitallisiksi tunnetut pitoisuudet - Sosiaali- ja terveysministeriön julkaisuja 2012:5
FRA	France	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102
GBR	United Kingdom	EH40/2005 Workplace exposure limits
HUN	Magyarország	50/2011. (XII. 22.) NGM rendelet a munkahelyek kémiai biztonságáról
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Databank of the social and Economic Concil of Netherlands (SER) Values, AF 2011:18
NOR	Norge	Veiledning om Administrative normer for forurensning i arbeidsatmosfære
POL	Polska	ROZPORZĄDZENIE MINISTRA PRACY I POLITYKI SPOŁECZNEJ z dnia 16 grudnia 2011r
SVK	Slovensko	NARIADENIE VLÁDY Slovenskej republiky z 20. júna 2007
SWE	Sverige	Occupational Exposure Limit Values, AF 2011:18
EU	OEL EU	Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC.
	TLV-ACGIH	ACGIH 2014



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SECTION 8. Exposure controls/personal protection. .../>>

					****					
					AMORPHOUS S	ILICATE HYL	DRATE			
hreshold Limit	t Value.									
Type Country		ntry T	TWA/8h		STEL/15	STEL/15min				
<u> </u>		n	ng/m3	ppm	mg/m3	ppm				
AGW	DEU	l	4					INHAL.		
MAK	DEU	l	4					INHAL.		
OEL	EU		6					INHAL.		
OEL	EU		2.4					RESP.		
lealth - Derived	d no-effe	ct level -	DNEL /	DMEL						
		Effects	on consu	mers.			Effects on we	orkers		
		Acute local	Acu syst	te temic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chroni	Chronic systemic
									c local	
Inhalation.							4 mg/m3	VND	4 mg/m3	VND

			VINYLTRIN	<b>IETHOXYSILA</b>	NE					
Predicted no-effect co	ncentration	- PNEC.								
Normal value in fresl	h water					0.34	mg/l			
Normal value in mar		0.034	mg/l							
Normal value for wat		3.4	mg/l							
Normal value of STP microorganisms							mg/l			
Normal value for the		0.046	mg/kg							
lealth - Derived no-eff	ect level - D	ONEL / DMEL								
	Effects o	n consumers.			Effects on w	Effects on workers				
Route of exposure	Acute	Acute	Chronic	Chronic	Acute local	Acute		Chronic		
	local	systemic	local	systemic		systemic	Chroni	systemic		
							c local			
Inhalation.					VND	4.9	VND	4.9		
						mg/m3		mg/m3		
Skin.					VND	0.69	VND	0.69		
						mg/kg bw/d		mg/kg		
								bw/d		



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SECTION 8. Exposure controls/personal protection. .../

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				MET	THANOL				
reshold Limit V									
Туре	Country	TWA/8h			STEL/15min				
		mg/m3	ppm	mg/m3	ppm				
TLV	CZE	250		1000			SKIN.		
AGW	DEU	270	200	1080	800		SKIN.		
MAK	DEU	270	200	1080	800		SKIN.		
TLV	DNK	260	200						
VLA	ESP	266	200				SKIN.		
HTP	FIN	270	200	330	250		SKIN.		
VLEP	FRA	260	200	1300	1000		SKIN.		
WEL	GBR	266	200	333	250		SKIN.		
AK	HUN	260		1040					
TLV	ITA	260	200				SKIN.		
OEL	NLD	133	100				SKIN.		
TLV	NOR	130	100				SKIN.		
NDS	POL	100		300					
NPHV	SVK	260	200				SKIN.		
MAK	SWE	250	200	350	250		SKIN.		
OEL	EU	260	200				SKIN.		
TLV-ACGIH		262	200	328	250				
edicted no-effe	ct concentr	ation - PNE	EC.						
Normal value in	n fresh wate	٢					154	mg/l	
Normal value in	n marine wa	ter					15.4	mg/l	
Normal value for	or fresh wate	er sediment					570.4	mg/kg	
Normal value for	or water, inte	ermittent rel	ease				1540	mg/l	
Normal value o	f STP micro	organisms					100	mg/l	
Normal value for	or the terres	trial compar	tment				23.5	mg/kg	
alth - Derived r	o-effect lev	el - DNEL	/ DMEL						
	Effe	cts on cons	sumers.		Effects on wo				
Route of expos	ure Acu	te Ac	ute	Chronic	Chronic	Acute local	Acute		Chronic
	loca	al sy	stemic	local	systemic		systemic	Chroni	systemi
		•			•		•	c local	•
Oral.								VND	8
									mg/kg
									bw/d
Inhalation.								50	50
								mg/m3	mg/m3
Skin.								VND	8
									mg/kg
									bw/d

Legend:

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction. VND = hazard identified but no DNEL/PNEC available; NEA = no exposure expected; NPI = no hazard identified.

#### 8.2. Exposure controls.

Comply with the safety measures usually applied when handling chemical substances.

HAND PROTECTION

None required.

SKIN PROTECTION

None required.

**EYE PROTECTION** 

None required.

RESPIRATORY PROTECTION

None required, unless indicated otherwise in the chemical risk assessment.

ENVIRONMENTAL EXPOSURE CONTROLS.

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

### SECTION 9. Physical and chemical properties.

#### 9.1. Information on basic physical and chemical properties.

Appearance paste
Colour colourless
Odour characteristic



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#### SECTION 9. Physical and chemical properties.

Odour threshold. Not available. Not available. pH. Melting point / freezing point. Not available. Not available. Initial boiling point. Not available. Boiling range. Flash point. 150 °C **Evaporation Rate** Not available. Flammability of solids and gases Not available. Not available Lower inflammability limit. Upper inflammability limit. Not available. Lower explosive limit. Not available. Upper explosive limit. Not available. Vapour pressure. Not available. Not available Vapour density Relative density. Not available. Solubility immiscible with water Partition coefficient: n-octanol/water Not available.

Auto-ignition temperature. > 400 °C.

Decomposition temperature. Not available.

Viscosity Not available.

Explosive properties Not available.

Oxidising properties Not available.

#### 9.2. Other information.

Information not available.

#### SECTION 10. Stability and reactivity.

#### 10.1. Reactivity.

There are no particular risks of reaction with other substances in normal conditions of use.

#### 10.2. Chemical stability.

The product is stable in normal conditions of use and storage.

#### 10.3. Possibility of hazardous reactions.

The vapours may also form explosive mixtures with the air.

#### 10.4. Conditions to avoid.

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

#### 10.5. Incompatible materials.

Information not available.

#### 10.6. Hazardous decomposition products.

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

#### **SECTION 11. Toxicological information.**

#### 11.1. Information on toxicological effects.

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

VINYLTRIMETHOXYSILANE

 LD50 (Oral).
 7430 mg/kg (Rat)

 LD50 (Dermal).
 3460 mg/kg (Rabbit)

 LC50 (Inhalation).
 16.79 mg/l/4h (Rat)

TRIMETHOXY (METHYL) SILANE

LD50 (Oral). > 9500 mg/kg (Rat) LD50 (Dermal). > 9500 mg/kg (Rabbit) LC50 (Inhalation). > 42.1 mg/l/4h (Rat)

#### AMORPHOUS SILICATE HYDRATE

LD50 (Oral). > 2000 mg/kg Rat



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#### SECTION 11. Toxicological information. />>

LD50 (Dermal). > 2000 mg/kg Rat LC50 (Inhalation). > 2.2 mg/l/1h Rat

#### **SECTION 12. Ecological information.**

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

#### 12.1. Toxicity.

VINYLTRIMETHOXYSILANE

LC50 - for Fish. 100 mg/l/96h

TRIMETHOXY (METHYL) SILANE

LC50 - for Fish. > 110 mg/l/96h (Oncorhynchus mykiss rainbow trout)
EC50 - for Crustacea. > 122 mg/l/48h (Daphnia magna water flea)
EC50 - for Algae / Aquatic Plants. > 120 mg/l/72h (Pseudokirchneriella subcapitata)

**METHANOL** 

LC50 - for Fish. 15400 mg/l/96h (Lepomis macrochirus bluegill sunfish) EC50 - for Crustacea. > 10000 mg/l/48h (daphina magna water flea)

#### 12.2. Persistence and degradability.

AMORPHOUS SILICATE HYDRATE

Solubility in water. mg/l 0,1 - 100

Biodegradability: Information not available.

**METHANOL** 

Solubility in water. mg/l 1000 - 10000

Rapidly biodegradable.

#### 12.3. Bioaccumulative potential.

AMORPHOUS SILICATE HYDRATE

Partition coefficient: n-octanol/water. 0.53

**METHANOL** 

Partition coefficient: n-octanol/water. -0.77 BCF. 0.2

#### 12.4. Mobility in soil.

Information not available.

#### 12.5. Results of PBT and vPvB assessment.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

#### 12.6. Other adverse effects.

Information not available.

#### **SECTION 13. Disposal considerations.**

#### 13.1. Waste treatment methods.

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

**CONTAMINATED PACKAGING** 

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

#### **SECTION 14. Transport information.**

#### 14.1. UN number.

Not applicable.



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SECTION 14. Transport information. />>

14.2. UN proper shipping name.

Not applicable.

14.3. Transport hazard class(es).

Not applicable.

14.4. Packing group.

Not applicable.

14.5. Environmental hazards.

Not applicable.

14.6. Special precautions for user.

Not applicable.

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

Information not relevant.

#### **SECTION 15. Regulatory information.**

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

Seveso category. None.

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.

None.

Substances in Candidate List (Art. 59 REACH).

None.

Substances subject to authorisarion (Annex XIV REACH).

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls.

Information not available.

German regulation on the classification of substances hazardous to water (VwVwS 2005).

WGK 1: Low hazard to waters

#### 15.2. Chemical safety assessment.

No chemical safety assessment has been processed for the mixture and the substances it contains.

#### **SECTION 16. Other information.**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 2 Flammable liquid, category 2 Flam. Liq. 3 Flammable liquid, category 3 Carc. 2 Carcinogenicity, category 2 Acute Tox. 3 Acute toxicity, category 3

STOT SE 1 Specific target organ toxicity - single exposure, category 1
Acute Tox. 4 Acute toxicity, category 4

STOT RE 2 Specific target organ toxicity - repeated exposure, category 2



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#### SECTION 16. Other information. .../>>

Eye Irrit. 2 Eye irritation, category 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H351 Suspected of causing cancer.

H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H331 Toxic if inhaled.

H370 Causes damage to organs.

H332 Harmful if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure.

H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
EUH210 Safety data sheet available on request.

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

#### **GENERAL BIBLIOGRAPHY**

- 1. Regulation (EU) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EU) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- ECHA website



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SECTION 16. Other information. .../>>

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Changes to previous review:
The following sections were a

The following sections were modified:

02/03/08/11/12/13/15/16.

Changed TLVs in section 8.1 for following countries:

DEU.