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Section 1. Chemical Product and Company Identification

Product Name	: PERESEAL [®] 702	Emergency Telephone Number: +65 6558 6388
Chemical Name	: Acrylic Sealant	Telephone number for Information: +65 6558 6388
Supplier/Manufacturer Information	: PFE Technologies Pte Ltd 9 Gul Street 4 Singapore 629238	Fax Number: +65 6558 7310
Email	: info@pfe.tech	
Website	: www.pfe.tech	

Section 2. Hazards Identification

Classification of the substance or mixture : The product is not classified and does not have to be labelled.

GHS label elements

Hazard pictograms : Void

Signal word : Void

Hazard statements : Void

Precautionary statements

General : Not applicable.

Prevention : Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Use personal protective equipment as required.
Wear protective gloves.
Wear eye or face protection.
Wear protective clothing.
Do not breathe dust.
Do not eat, drink or smoke when using this product.
Wash hands thoroughly after handling.

Response : Get medical attention if you feel unwell.
IF SWALLOWED:
Immediately call a POISON CENTER or physician.
Rinse mouth.
Do NOT induce vomiting.
IF ON SKIN (or hair):
Take off immediately all contaminated clothing.
Rinse skin with water or shower.

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Wash contaminated clothing before reuse.

IF IN EYES:

Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or physician.

Storage : Store locked up.

Disposal : P501 Dispose of contents and container in accordance with all local, regional, national and international regulations.

Section 3. Composition / Information on Ingredients

Hazardous Ingredients	CAS No. EINECS No.	Conc. %	Hazardous Symbol	Risks (R-phrases)
None	--	--	--	--

(1) For R-phrases in full: see heading 16

Section 4. First-aid Measures

Description of necessary first aid measures

Eye contact : Rinse opened eye for several minutes under running water.
Inhalation : Supply fresh air; consult doctor in case of complaints.
Skin contact : Generally, the product does not irritate the skin.
Ingestion : If symptoms persist consult doctor.

Most important symptoms and effects : No further relevant information available.

Indication of any immediate medical attention needed : No further relevant information available.

Section 5. Fire-Fighting Measures

Extinguishing Media

Suitable extinguishing media : Use fire extinguishing methods suitable to surrounding conditions.

Unsuitable extinguishing media : None.

Specific hazards arising from the chemical : No further relevant information available.

Special protective equipment for fire-fighters : Mouth respiratory protective device

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Section 6. Accidental Release Measures

Personal Protection/Precaution	:	See heading 8.1/8.3/10.3
Environmental Precaution	:	Use appropriate containment to avoid environmental contaminant
Method of Cleaning up	:	Scrape up and place in a container fitted with lid. Label clearly with contents ready for disposal. Clean residues with water and detergents.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	:	Ensure adequate ventilation
Environmental precautions	:	Dilute with plenty of water. Do not allow to enter sewers / surface or ground water.
Methods and material for containment and cleaning up	:	Absorb with liquid-binding material (sawdust, sand, acid / universal binders). Pick up mechanically.

Section 7. Handling and Storage

Precautions for safe handling	:	Observe normal hygiene standards. Use only in well ventilated areas.
Storage	:	Keep container tightly closed in cool, dry and ventilated area. No special requirements.
Quantity limit	:	N.D. kg
Storage life	:	730 days
Specific uses	:	No further relevant information available.

Section 8. Exposure Controls / Personal Protection

Control parameters			
TLV-TWA	:	- mg/m ³	ppm
TLV-STEL	:	- mg/m ³	ppm
TLV-Ceiling	:	- mg/m ³	ppm
OES-LTEL	:	- mg/m ³	ppm
OES-STEL	:	- mg/m ³	ppm
MAK	:	- mg/m ³	ppm
TRK	:	- mg/m ³	ppm
MAC-TGG 8 h	:	- mg/m ³	
MAC-TGG 15 min.	:	- mg/m ³	
MAC-Ceiling	:	- mg/m ³	
VME-8 h	:	- mg/m ³	ppm
VLE-15 min.	:	- mg/m ³	ppm

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GWBB-8 h	:	- mg/m ³	ppm
GWK-15 min.	:	- mg/m ³	ppm
Momentary value	:	- mg/m ³	ppm
EC	:	- mg/m ³	ppm
EC-STEL	:	- mg/m ³	ppm

Exposure Controls

Occupational Exposure Controls	:	Use only in well-ventilated area
Environmental Exposure Controls	:	see Heading 13

Personal Protections

Respiratory Protection	:	Respiratory protection required in normal conditions of use
Hand Protections	:	Gloves
Eye Protections	:	Safety glasses
Skin Protection	:	Suitable protective clothing

Section 9. Physical and Chemical Properties

General Information

Appearance (at 20°C)	:	Paste
Odour	:	Characteristics
Colour	:	Variable in Color

Important Health, Safety and Environmental Information

pH value	:	N.D.	
Boiling point/boiling range	:	N.D.	°C
Flashpoint	:	N.D.	°C
Explosion limits	:	N.D.	Vol%
Vapour pressure (at 20°C)	:	N.D.	hPa
Vapour pressure (at 50°C)	:	N.D.	hPa
Relative density (at 20°C)	:	1.5	g/cm ³
Water solubility	:	Soluble	
Soluble in	:	N.D.	
Relative vapour density	:	N.D.	
Viscosity (at 20°C)	:	N.D.	Pa.s
Partition coefficient n-octanol/water	:	N.D.	
Evaporation rate			
ratio to butyl acetate	:	N.D.	
ratio to ether	:	N.D.	

Other Information

Melting point/melting range	:	N.D.	°C
Auto-ignition point	:	N.D.	°C
Saturation concentration	:	N.D.	g/m ³

Section 10. Stability and Reactivity

Conditions to Avoid/Reactivity	:	Stable under normal conditions
Materials to Avoid	:	None

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Hazardous Decomposition Products : On burning: release of e.g. Carbon monoxide and Carbon dioxide

Section 10. Stability and Reactivity

Reactivity : Stable under normal conditions.
Chemical stability : The product is stable.
Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid : No specific data.
Incompatible materials : No specific data.
Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological Information

Acute Toxicity

LD50 oral rat	: N.D.	mg/kg
LD50 dermal rabbit	: N.D.	mg/kg
LD50 dermal rabbit	: N.D.	mg/kg
LC50 inhalation rat	: N.D.	mg/l/4h
LC50 inhalation rat	: N.D.	ppm/4h

Chronic toxicity

EC carc. cat.	: not listed
EC muta. cat.	: not listed
EC repr. cat.	: not listed

Carcinogenicity (TLV)	: not listed
Carcinogenicity (MAC)	: not listed
Carcinogenicity (VME)	: not listed
Carcinogenicity (GWBB)	: not listed

Carcinogenicity (MAK)	: not listed
Mutagenicity (MAK)	: not listed
Teratogenicity (MAK)	: not listed

IARC classification	: not listed
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Primary irritant effect

on the skin	: No irritant effect
on the eye	: No irritant effect
sensitization	: No sensitizing effects known

Additional toxicological information

The product is not subject to classification. When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

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Section 12. Ecological Information

Ecotoxicity	:	No data available	
Mobility	:	Volatile organic compounds (VOC): < 1%	
		Insoluble in water	
		For other physicochemical properties see HEADING 9	
Persistence and Degradability			
Biodegradation BOD₅	:	N.D.	%ThOD
Water	:	No data available	
Soil	:	T ½	N.D. days
Bioaccumulative Potential	:	log P _{ow}	N.D.
	:	BCF	N.D.
Other Adverse Effects	:	WGK	1
		Effects on the ozone layer	Not dangerous on ozone layer
		Greenhouse effect	No data available
		Effect on waste water purification	No data available

Section 12. Ecological Information

Ecotoxicity	:	No further relevant information available.
Persistence / degradability	:	No further relevant information available.
Bioaccumulative potential	:	No further relevant information available.
Mobility in soil	:	No further relevant information available.
Other information	:	No further relevant information available.

Section 13. Disposal Considerations on Waste Materials

Disposal Methods	:	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
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Section 14. Transport Information

UN-Number	:	Void
ADR, AND, IMDG, IATA	:	

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UN Proper shipping name : Void
ADR, AND, IMDG, IATA

Transport Hazard Class(es) : Void
ADR, AND, IMDG, IATA

Packing Group : Void
ADR, IMDG, IATA

Environmental hazards : Void

Special precautions for user : This product is not regarded as dangerous goods according to the national and international regulations on the transport of dangerous goods.

Section 15. Regulatory Information

Labeling not required according to available information.

Section 16. Other Information

The information provided on this SDS is correct to the best of our knowledge and information at the date of its publication. This shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

N.A. = NOT APPLICABLE
N.D. = NOT DETERMINED
***** = INTERNAL CLASSIFICATION

Exposure limits:

TLV : Threshold Limit Value - ACGIH US 2000
OES : Occupational Exposure Standards - United Kingdom 1999
MEL : Maximum Exposure Limits - United Kingdom 1999
MAK : Maximale Arbeitsplatzkonzentrationen - Germany 2001
TRK : Technische Richtkonzentrationen - Germany 2001
MAC : Maximale aanvaarde concentratie - the Netherlands 2002
VME : Valeurs limites de Moyenne d'Exposition - France 1999
VLE : Valeurs limites d'Exposition à court terme - France 1999
GWBB : Grenswaarde beroepsmatige blootstelling - Belgium 1998
GWK : Grenswaarde kortstondige blootstelling - Belgium 1998
EC : Indicative occupational exposure limit values - directive 2000/39/EC

Chronic toxicity:

K : List of the carcinogenic substances and processes - the Netherlands 2002

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Section 16. Other Information

History

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Prepared by	:	Technical department
Key to abbreviations	:	ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail UN = United Nations
References	:	Not available

Notice to reader

Unless otherwise specified in section 1, PFE Technologies Pte Ltd products are intended for industrial application only.
Keep out of the reach of children.

Further Information

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