

Product name	: PERESEAL [®] FR	Version	: 1.5
Date of issue / Date of revision	: 20/05/2016	Page	: 1 of 17
Date of previous issue	: 20/05/2016		

Section 1. Product and Company Identification

Product Name	: PERESEAL[®] FR Acrylic	Emergency Telephone Number:	+65 6558 6388
Chemical Name	: Intumescent 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
Contact Person	: info@pfetec.sg		
Email	: info@pfetec.sg		
Website	: www.pfetec.sg		

Section 2. Hazards Identification

Classification of the substance or mixture : Upon assessment, this mixture is not classified as hazardous according to 1272/2008.

GHS label elements

Hazard pictograms : Not applicable

Signal word : Not applicable

Hazard statements : Not applicable

Section 3. Composition / Information on Ingredients

This product is a pastous mixture.

Mixtures : The product contains no substances, nor concentration levels thereof, that require marking or that need to be declared.

Section 4. First-aid Measures

Description of necessary first aid measures

Eye contact : As a precaution, rinse the eye thoroughly with water; If symptoms occur, call a doctor/physician.

Inhalation : Let the injured person rest in a warm place with fresh air; If symptoms persist, call a doctor/physician.

Product name	: PERESEAL [®] FR	Version	: 1.5
Date of issue / Date of revision	: 20/05/2016	Page	: 2 of 17
Date of previous issue	: 20/05/2016		

Skin contact : Normal washing of the skin is considered sufficient; If nevertheless symptoms do occur, contact a physician.
Remove contaminated clothes.

Ingestion : First rinse the mouth thoroughly with a lot of water and SPIT OUT the water. Then drink at least 1/2 liter of water. Call a doctor/physician if symptoms persists.

Most important symptoms and effects, both acute and delayed

Information on symptoms are ambiguous or missing for this product.

Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

Section 5. Fire-Fighting Measures

Extinguishing Media

Suitable extinguishing media : Extinguish with materials intended for the surrounding fire.

Specific hazards arising from the chemical : Produces fumes containing harmful gases (carbon monoxide and carbon dioxide) when burning, and, in case of incomplete combustion, aldehydes and other toxic, harmful, irritant or environmentally harmful substances.
The product is not hazardous in the flammable sense.

Advice for fire-fighters : In case of fire use a respirator mask.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures : Use suitable allergy-tested protective gloves when cleaning up.
Dust filter IIb (P2) may be required when cleaning up.
In case of spillage in protected water, call the emergency services immediately, tel. 995 (in Singapore).
Do not inhale the product and avoid exposure to skin and eyes.

Environmental precautions : At amounts considered in this case, the product may be released into the natural environment without serious environmental consequences. Large emissions should however be reported to the emergency services and the Environment Agency.

Product name	: PERESEAL [®] FR	Version	: 1.5
Date of issue / Date of revision	: 20/05/2016	Page	: 3 of 17
Date of previous issue	: 20/05/2016		

Methods and material for containment and cleaning up : Carefully collect the material for combustion waste disposal, then wash the spillage area with water. Avoid stirring the material up so that it aerates. Contaminated products should be treated as chemical waste and declared as non-hazardous goods.

Reference to other sections : See section 8 and 13 for personal protection equipment and disposal considerations

Section 7. Handling and Storage

Precautions for safe handling : Treat the substance as potentially harmful to health. Do not eat, drink or smoke in premises where this product is stored.

Conditions for safe storage, including any incompatibilities : Store in a cool and dry place (above freezing temperature and not greater than 30°C). Handle in premises which have modern ventilation standards. Store in a well-ventilated area, not above eye-level. Store only in the original package.

Specific end uses : Not relevant.

Section 8. Exposure Controls / Personal Protection

Control parameters : All ingredients (cf. Section 3) lack occupational exposure limit values.

Exposure controls : In terms of minimizing risks, no special attention is needed for this product besides the general obligations that follow EU directive 89/391 and national occupational legislation. Eye protection should be worn if there is any danger of direct exposure or splashing. Protective gloves are normally not needed due to the properties of this product, but may be necessary for other reasons, e.g. mechanical risks, temperature conditions or microbiological risks. Very sensitive persons can use gloves labelled "Low Chemical resistant" or "Waterproof" or with the pictogram indicated here.



Protective breathing equipment should only be required in extreme work-situations. Consult the manufacturer if this is the case. Dust filter IIb (P2) may be required. For limitation of environmental exposure, see Section 12.

Product name	: PERESEAL [®] FR	Version	: 1.5
Date of issue / Date of revision	: 20/05/2016	Page	: 4 of 17
Date of previous issue	: 20/05/2016		

Section 9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	:	Form: paste
	:	Colour: As supplied
Odour	:	Not applicable
Odour threshold	:	Not applicable
pH	:	7 – 9
Melting point / freezing point	:	Not applicable
Initial boiling point and boiling range	:	Not applicable
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	Not applicable
Lower and upper flammability or explosive limits	:	Not applicable
Vapour pressure	:	Not applicable
Vapour density	:	Not applicable
Relative density	:	1.61 kg/L
Solubility	:	Not applicable
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	Not applicable
Viscosity	:	Not applicable
Explosive properties	:	Not applicable
Oxidising properties	:	Not applicable

Other information

No data available

Section 10. Stability and Reactivity

Reactivity	:	The product contains no substances which can lead to hazardous reactions at normal use.
Chemical stability	:	The product is stable at normal storage and handling conditions.
Possibility of hazardous reactions	:	No hazardous reactions known.
Conditions to avoid	:	Not indicated.
Incompatible materials	:	Not indicated.
Hazardous decomposition products	:	None under normal conditions.

Product name	: PERESEAL [®] FR	Version	: 1.5
Date of issue / Date of revision	: 20/05/2016	Page	: 5 of 17
Date of previous issue	: 20/05/2016		

Section 11. Toxicological Information

Information on toxicological effects

- General or unspecific toxicity** : The product is not classified as toxic.
- Acute effects** : Not classified as an acutely toxic substance.
- Harmfulness** : The product is not classified as harmful to health.
- Repeated dose toxicity** : To the best of our knowledge, no chronic effects have been reported for this product.
- Carcinogenicity** : To the best of our knowledge, no carcinogenic effects have been reported for this product.
- CMR effects** : To the best of our knowledge, no mutagenic or otherwise genetic or reproductive toxic effects have been reported for this product.
- Sensibilisation** : Hypersensitive reactions cannot be ruled out for persons who are overtly sensitive.
- Corrosive and irritating effects** : The product is not corrosive. Minor irritation cannot be ruled out for persons who are prone/susceptible.
- Synergism and antagonism** : To the best of our knowledge, no synergistic effects have been reported for this product or any of its ingredients.
- Effect on judgement and other psychological effects** : To the best of our knowledge this product does not affect discernment if used in the manner intended.
- Effect on human microflora** : Effects on human micro flora have not been proven, or are negligible.

Section 12. Ecological Information

- Toxicity** : This product consists of easily degradable naturally occurring or nature identical substances, mainly obtained from renewable sources, whereby the global environmental load may be considered to be negligible. In the local environment minor ecological effects may occur in case of large discharge.
- Persistence and degradability** : The product degrades in the natural environment.
- Bioaccumulative potential** : Neither this product, nor its contents, accumulates in nature.
- Mobility in soil** : The product is miscible with water and is therefore variable in soil and water.
- Results of PBT and vPvB assessment** : No chemical safety report has been executed.
- Other adverse effects** : Not indicated

Product name	: PERESEAL [®] FR	Version	: 1.5
Date of issue / Date of revision	: 20/05/2016	Page	: 6 of 17
Date of previous issue	: 20/05/2016		

Section 13. Disposal Considerations

Waste treatment methods

- Waste handling for the product** : The product is not classified as hazardous waste.
Also take local regulations for dealing with waste into account.
- Recycling of the product** : This product is not usually recycled.
- Transportation of waste** : Waste class J(0) - Does not have adverse effects on health or the environment.

Section 14. Transport Information

This product is not regarded as dangerous goods according to the national and international regulations on the transport of dangerous goods.

- UN number** : Not classified as dangerous goods
- UN proper shipping name** : Not applicable
- Transport hazard class(es)** : Not applicable
- Packing group** : Not applicable
- Environmental hazards** : Not applicable
- Special precautions for user** : Not applicable
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** : Not applicable

Section 15. Regulatory Information

- Safety, health and environmental regulations/legislation specific for the substance or mixture** : Not applicable
- Chemical safety assessment** : Assessment and chemical safety report in accordance with 1907/2006 Annex I has not yet been performed.

Product name	: PERESEAL [®] FR	Version	: 1.5
Date of issue / Date of revision	: 20/05/2016	Page	: 7 of 17
Date of previous issue	: 20/05/2016		

Section 16. Other Information

History

Date of printing : 06/06/2016
Date of issue / Date of revision : 20/05/2016
Date of previous issue : 20/05/2016
Version : 1.5
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

Sources for data : Primary data for the calculation of the hazards has preferentially been taken from the official European classification list, 1272/2008 Annex I, as updated to 2015-07-01. Where such data was lacking, on the second hand the documentation on which this official classification is based was used, e.g. IUCLID (International Uniform Chemical Information Database). On the third hand, information was used from reputable international chemical suppliers, and on the fourth hand from other available information, e.g. safety data sheets from other suppliers or information from non-profit associations, whereby the reliability of the source was judged by an expert. If, in spite of this, reliable information was not found, the hazards were judged by expert opinions based on the known properties of similar substances, and according to the principles in 1907/2006 and 1272/2008.

Warning for misuse : This product is not expected to cause severe harm to humans or the environment. However, the manufacturer, the distributor or the supplier cannot be responsible for unusual or criminal use of the product.

Product name	: PERESEAL [®] FR	Version	: 1.5
Date of issue / Date of revision	: 20/05/2016	Page	: 8 of 17
Date of previous issue	: 20/05/2016		

Notice to reader

Unless otherwise specified in section 1, PFE Technologies Pte Ltd products are intended for industrial application only. They are not intended for specific medical applications, neither for long-lasting (> 30 days) implantation into the human body, injected or directly ingested, nor for the manufacture of multiple usable contraceptives.

Keep out of the reach of children.

Further Information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

®,*, and TM indicate trademarks owned by PFE Technologies Pte Ltd.