

: PERESEAL ® N Neutral Seal Chemical Name MSDS No. : P 008 Date of Preparation : January 2014 Revision No.: #1

Section 1. Chemical Product and Company Identification
PERESEAL ® N Neutral Seal Emergency Telephone Number:

**Product Name** 

+65 6558 6388

Supplier/Manufacturer : PFE Technologies Pte Ltd

9 Gul Street 4 **Address Telephone number for Information:** 

> Singapore 629238 +65 6558 6388

**Email** info@pfetec.sq **Fax Number:** www.pfetec.sq Website +65 6558 7310

	Section 2. Composition / Information on Ingredients				
Hazardous Ingredients	CAS No. EINECS No.	Conc.	Hazardous Symbol	Risks (R-phrases)	
Butane-2-on-O,O',O" – (Methylsilylidyn)trioxim (*)	17689-779 241-677-4	<5	С	14-13 (1)	

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

	<b>Section 3. Hazards Identification</b>
- May cause sensitization by skin contact	

	Section 4. First-aid Measures
Eye Contact	: Rinse immediately with plenty of water
	Seek medical advice
Skin Contact	: Rinse immediately with plenty of water
	If irritation persists: seek medical advice
Inhalation	: Remove the victim into fresh air
	Seek medical advice
Ingestion	: Never give water to an unconscious person
	Do not induce vomiting
	Seek medical advice

		Section 5. Fire-Fighting Measures
Extinguishing Media		
Suitable	:	All standard extinguishing media are suitable. This is a waterborne product and does not support combustion in the uncured state. The product does not contain combustible organic components which may yield smoke containing hazardous decomposition products.
Unsuitable	:	None



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## **Section 6. Accidental Release Measures**

Personal Protection/Precaution : See heading 8.1/8.3/10.3

**Environmental Precaution** : Contain leaking substance, pump over in suitable containers **Method of Cleaning up** : Solid spill: shovel in (to) closing drums. Clean contaminated surfaces with

an excess of water. Wash clothing and equipment after handling

## **Section 7. Handling and Storage**

**Handling** : Observe normal hygiene standards

**Storage** : Keep container tightly closed in cool, dry and ventilated area.

**Storage Temperature** : Room temperature

**Quantity limit** : N.D. kg **Storage life** : 365 days

Materials for packaging

**Suitable** : synthetic material

Specific uses : See information supplied by the manufacturer

## **Section 8. Exposure Controls / Personal Protection**

## **Exposure Limit Values**

TLV-TWA: -  $mg/m^3$ ppmTLV-STEL: -  $mg/m^3$ ppmTLV-Ceiling: -  $mg/m^3$ ppm

 OES-LTEL
 : - mg/m³
 ppm

 OES-STEL
 : - mg/m³
 ppm

 MAK
 : - mg/m³
 ppm

 TRK
 : - mg/m³
 ppm

 VME-8 h
 : - mg/m³
 ppm

 VLE-15 min.
 : - mg/m³
 ppm

 GWBB-8 h
 : - mg/m³
 ppm

 GWK-15 min.
 : - mg/m³
 ppm

 Momentary value
 : - mg/m³
 ppm

**EC** : - mg/m<sup>3</sup> ppm **EC-STEL** : - mg/m<sup>3</sup> 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



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## **Section 9. Physical and Chemical Properties**

#### **General Information**

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

### **Important Health, Safety and Environmental Information**

pH value Boiling point/boiling range °C N.D. Flashpoint N.D. °C **Explosion limits** N.D. Vol% Vapour pressure (at 20°C) hPa N.D. Vapour pressure (at 50°C) N.D. hPa Relative density (at 20°C) 1.0 - 1.3g/cm<sup>3</sup>

Water solubility : insoluble

Soluble in : organic solvent

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.  $^{\circ}$ C Auto-ignition point : N.D.  $^{\circ}$ C Saturation concentration : N.D.  $^{\circ}$ C

## **Section 10. Stability and Reactivity**

**Conditions to Avoid/Reactivity** : Stable under normal conditions **Materials to Avoid** : Heat sources, oxidizing agent

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

Carbon dioxide

## 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



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Carcinogenicity (MAC)

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

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

IARC classification : not listed

**Routes of Exposure** : Ingestion, inhalation, eye and skin

Acute Effects/Symptoms : Slight irritation

**Chronic Effects** : May cause sensitization by skin contact

No certainty about human carcinogenic

**Section 12. Ecological Information** 

**Ecotoxicity** : No data available

Mobility : Volatile organic compounds (VOC): 4%

Insoluble in water

For other physiochemical properties see **HEADING 9** 

**Persistence and Degradability** 

**Biodegradation BOD**<sub>5</sub> : N.D. %ThOD

**Water** : No data available

**Soil** :  $T \frac{1}{2}$  N.D. days

**Bioaccumulative Potential** : log P<sub>ow</sub> N.D.

BCF N.D.

Other Adverse Effects : WGK

Effects on the ozone layer Not dangerous on ozone layer

Greenhouse effect No data available Effect on waste water purification No data available

# Section 13. Disposal Considerations on Waste Materials

**Disposal Methods** : Recycle/reuse

## **Section 14. Transport Information**

**Classification of the substance in compliance with UN Recommendations** 

UN-number : --

CLASS : NOT SUBJECT

SUB RISKS :

PROPER SHIPPING NAME :



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**ADR** (transport by road)

CLASS : NOT SUBJECT

PACKING :

DANGER LABEL TANKS
DANGER LABEL PACKAGES

RID (transport by rail)

CLASS : NOT SUBJECT

PACKING

DANGER LABEL TANKS :

DANGER LABEL PACKAGES

**ADNR (transport by inland waterways)** 

CLASS : NOT SUBJECT

PACKING

DANGER LABEL TANKS : DANGER LABEL PACKAGES :

**IMDG** (maritime transport)

CLASS : NOT SUBJECT

SUB RISKS

PACKING

MFAG :

EMS : MARINE POLLUTANT :

ICAO (air transport)
CLASS : NOT SUBJECT

SUB RISKS :

PACKING :

PACKING INSTRUCTIONS PASSENGER

**AIRCRAFT** 

PACKING INSTRUCTIONS CARGO AIRCRAFT

**Special precautions in connection with transport** : not restricted for any mode of

international transport

## **Section 15. Regulatory Information**

Labeling not required according to available information



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## **Section 16. Other Information**

The information provided on this MSDS is correct to the best of our knowledge and information at the date of its publication. 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