

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 PRODUCT IDENTIFIER  
MODEL NUMBER : Fuel Cell Cartridges/Aerosol to suit cordless nail gun  
: PC1307P, PC1308P, PC1309P, PC1310P
- 1.2 USES ADVISED AGAINST : Presently no Information available
- 1.3 COMPANY/  
UNDERTAKING IDENTIFICATION : Verpa Senco B.V.  
Pascallaan 88, 8218 NJ Lelystad, The Netherlands  
Tel.: +31 (0)320 29 55 75
- 1.4 EMERGENCY TELEPHONE: +31 (0)320 29 55 75

SECTION 2: HAZARDS IDENTIFICATION

## 2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification according to Regulation (EC) no. 1272/2008( CLP)

H222: Extremely Flammable Aerosol

H229: Pressurized Container may burst if heated

Classification according to Directives 67/548/EEC and 1999/45/EC

F +, R 12 -Extremely flammable

## 2.2 LABEL ELEMENTS

Labeling according to Regulation (EC) 1272/2008(CLP)



DANGER

Precautionary Statements

Strictly to be used in No smoking area

Should be away from Ignition sources

Avoid Skin Contact

Keep away from heat, hot surfaces, sparks and open flames

Protect from Sunlight

To be used & stored in well ventilated areas.

To be disposed as hazardous waste.

Do not expose to temperatures exceeding 50 C

SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

Name	CAS RN	%
Propane	74-98-6	50 – 60
Isobutane	74-98-6	40 - 50
Butanes	106-97-8	1 – 5

#### SECTION 4: FIRST AID MEASURES

##### 4.1.1 GENERAL INFORMATION

Remove contaminated saturated clothing immediately. In case of unwellness  
Seek immediate medical advice

##### 4.1.2 INHALATION

Do not breath the Gas, may cause asphyxiation in high concentrations or toxic  
Effect, Supply Patient with fresh air & consult Doctor

##### 4.1.3 SKIN

Direct Contact with Liquefied gas can cause frostbite  
Wash exposed area with cold water for at least for 10 minutes, don't rub area,  
Just flush with water or soak  
Do not use hot water, Dress with a clean & dry dressing  
Take patient to nearest hospital or Doctor

##### 4.1.4 EYES

Direct Contact with Liquefied gas can cause frostbite  
Open eyelids to allow any gas/fluid top escape  
Flush out effected eye with cool water for 15 minutes  
Don't allow patient to rub the eyes  
If sensitive to light gently apply bandage

##### 4.1.5 INGESTION

Direct contact with Liquefied gas can cause frostbite to internal organs & Tissue.  
Do not induce vomiting  
Provide clean, cool drinking water for patient to rinse their mouth & then advise Patients, to drink Water, if  
comfortable to them.

##### 4.1.6 SELF-PROTECTION OF FIRST AIDER: FIRST AIDER

Pay attention to self-protection

##### 4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE & DELAYED

Serious irritations in eyes (burning and redness)  
& serious irritation to skin (Dry ness and itching)

##### 4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Specific treatment: First Aid,  
Decontamination & treatment of symptoms

**NOTE to Doctor: Treat symptomatically**

#### SECTION 5: FIRE-FIGHTING MEASURES

##### 5.1 SUITABLE EXTINGUISHING MEDIA

Carbon Dioxide/Water Jet Spray/Foam/ Dry Extinguisher  
**Unsuitable** extinguishing media: High Volume water jet.

##### 5.2 FIRE/EXPLOSIVE HAZARD

Extremely flammable  
Will form explosive mixture with air  
Flash back may occur If vapor travel to an ignition point.  
Aerosols may explode when ruptured  
Exposure to gas may cause frostbite, burns or injury  
Explosion hazard if exposed to flame or spark.

**5.3 ADVICE FOR FIREFIGHTERS**

Isolate hazard area & evacuate unprotected personnel  
Full emergency equipment with self contained breathing apparatus & full protective clothing should be worn by fire fighters.  
Prevent spillage from entering drains or waterways  
Don't approach heated Aerosols until cooled  
Remove Aerosols from path of fire if safe to do so.  
In case of fire and/or explosion do not breathe fumes  
Use Breathing Apparatus & Gas tight chemical resistant suit

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1 MINOR SPILLS**

Shut off all sources of ignition  
Clear area of all personnel  
Do not enter area where gas may have accumulated  
Avoid breathing gas & any contact with Liquid  
Enter the area with protective equipment with breathing apparatus  
Remove leaking Aerosols to a safe well-ventilated area  
Do not enter the area until gas has been dispersed

**6.2 MAJOR SPILLS**

-  
All unprotected personnel must be cleared from the area  
Alert emergency service of the incident & location  
Enter area with protective equipment & respirator  
Turn off all the possible sources of ignition  
Use water spray to disperse vapor  
Keep clear until gas has dispersed fully & stop entry of unauthorized personnel

**SECTION: 7 HANDLING AND STORAGE****7.1 PRECAUTIONS FOR SAFE HANDLING****7.1.1 GENERAL RECOMMENDATIONS:**

Ensure good Ventilation  
Keep away from sources of ignition – Do not smoke  
Take precautions against electrostatic changes  
Only use equipment that suitable for this product and the intended pressure and temperature.  
Eating, drinking, smoking as well as food- storage is prohibited in work room  
Observe directions on label and instructions for use.  
Use working methods according to operating instructions

**7.1.2 NOTES ON GENERAL HYGIENE MEASURES AT THE WORKPLACE**

Wash Hands before breaks and at the end of work  
Keep away from food, drink & animal feeding stuffs.  
Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

**7.2 CONDITIONS FOR SAFE STORAGE: -**

Store in well-ventilated area, recommended Storage temperature below 50 C  
No smoking, naked flame, heat or ignition sources,  
Do not store in pits or depressions or where no air circulation occurs.  
Keep out of access to unauthorized individuals.  
Do not store with flammable or self-igniting materials and store upright.

**7.3 SPECIFIC END USE**

To be used for activating cordless Nailers, Bradders & Concrete Nailers.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 CONTROL PARAMETERS –

Long-term occupational exposure limit value: 40 mg/m<sup>3</sup>  
Short-term occupational exposure limit value: 80 mg/m<sup>3</sup>

### 8.2. EXPOSURE CONTROLS

#### 8.2.1 APPROPRIATE ENGINEERING CONTROLS

Ventilation : Ensure good ventilation. This may be achieved by local suction or general; air extraction.  
Eye Protection : Eye protection must be worn when handling Aerosols  
Skin Protection : Gloves are recommended when handling Aerosols

#### 8.2.2 INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT.

In worst case scenario respiratory protection equipment may be required  
Under normal use these should be used in well-ventilated area  
If ventilation is insufficient a suitable breathing device should be worn  
General hygiene must be observed as mentioned under **Section 7.1.2**

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 GENERAL INFORMATION

Appearance : Aerosol, Liquid  
Odor : Odorless  
Odor threshold : Not applicable  
pH : Not applicable  
Melting/Freeze Point : -184.5 C approx  
Boiling Point : - 42 C to 0 C approx  
Flash Point : - 104 C to - 60 C approx  
Evaporation rate : Not determined  
Flammability : Yes  
Lower Explosive limit : Not determined  
Upper Explosive Limit : Not determined  
Density : Not determined  
Bulk Density : 0.54 kgs/Lt in Liquid form approx.  
Solubility : Not determined  
Water solubility : Insoluble  
Partition coefficient : Not determined  
Auto-ignition temperature : 494 C approx.  
Decomposition temperature : Not determined  
Viscosity : Not applicable  
Explosive properties : Not Explosive  
Oxidizing properties : Not determined

### 9.2 OTHER INFORMATION

Miscibility : Not determined  
Fat Solubility : Not determined  
Conductivity : Not determined  
Surface tension : Not determined

## Section 10: STABILITY AND REACTIVITY

10.1 REACTIVITY : No testing done

10.2 CHEMICAL STABILITY : Product is Stable in normal working conditions with proper storage and handling

10.3 POSSIBILITY OF HAZARDOUS REACTIONS : No reactions of dangerous kind.

- 10.4 CONDITIONS TO AVOID :Refer section 7
- 10.5 INCOMPATIBLE MATERIALS :Strong Acids
- 10.6 HAZARDOUS DECOMPOSITION :Does not decompose .when used for intended/directed uses

#### SECTION 11: TOXICOLOGICAL INFORMATION

##### 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

Acute toxicity:

- Acute oral toxicity : No adverse effect observed  
Acute dermal toxicity : No adverse effect observed  
Acute inhalation toxicity : No adverse effect observed

Skin Irritation:

Contact with the Skin may cause frostbites, while gas can cause irritation

Serious Eye damage/Irritation:

Contact may cause irritation and redness

Inhalation:

Asphyxiation may occur if personnel exposed to high concentration of gas

Early indications of asphyxiation are Drowsiness, headaches, dizziness & feeling of weakness & shortness of breath.

Respiratory or Skin sensitization : No indications

Germ Cell mutagenicity : Negative

#### SECTION 12: ECOLOGICAL INFORMATION

Will vaporize rapidly when released in atmosphere,  
Anesthetic to animals & insets at high concentration,  
Not expected to pose hazards to aquatic life.  
Not inhibitory to plant growth at normal concentration,  
Bioaccumulation is not expected

#### SECTION 13: DISPOSAL CONSIDERATIONS

##### 13.1 WASTE TREATMENT METHODS

Waste disposal should be done according to 2008/98/EC, covering waste and dangerous waste.

##### 13.1.1 PRODUCT/PACKAGING DISPOSAL

Waste must be disposed of in accordance with local regulations. Waste codes should be assigned by the user in discussion with the local waste disposal authorities.

##### 13.1.2 WASTE TREATMENT

Not allowed

##### 13.1.3 SEWAGE DISPOSAL

Prohibited

##### 13.1.3. OTHER DISPOSAL; RECOMMENDATION

Handle contaminated packages in the same way as the product itself.

#### SECTION 14. TRANSPORT INFORMATION

Transport : May be by road/by rail as per national regulations ( ADR/RID)

- 14.1 UN NUMBER : 1950  
14.2 UN PROPER SHIPPING NAME : Aerosols  
14.3 TRANSPORT HAZARD CLASS : 2.1  
14.4 PACKING GROUP : non  
14.5 ENVIRONMENTAL HAZARDS : Not applicable

#### 14.6 SPECIAL PRECAUTIONS FOR USER

- Transport in closed containers that are upright and secure
- Ensure that persons transporting the product are well trained and should know, what to do in case of an accident or spillage
- They must observe safety regulations & take precautions to prevent damage.

#### 14.7. TRANSPORT IN BULK ACCORDING TO ANNEXURE II MARPOL 73/78 AND THE IBC CODE

Not applicable

#### SECTION 15: REGULATORY INFORMATION

#### 15.1 SAFETY , HEALTHAN ENVIRONMENTAL REGULATIONS /LEGISLATION SPECIFIC FOR SUBSTANCE OR MIXTURE

In general for classification and labeling see section 2.

Ensure restrictions are observed

Compliance is in according with following in EU

- 1.Commission Regulations (EU) No 474/2014 of 8 May 2014
- 2.Commission Regulations ( EU) no 944/2013 of 2 Oct 2013 on classification, labeling and packaging of substances and mixtures.
- 3.Waste Framework directive 2008/98/EC

Compliance is in accordance with following in UK

- 1.Management of Health and safety at work Regulations (1999)
- 2.Control of substances Hazardous to Health Regulations( COSHH 2002)
- 3.Personal protective Equipment Regulations( 2002)

#### 15.2 CHEMICAL SAFETY ASSESSMENT: Not determined.

#### SECTION 16: OTHER INFORMATION

This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with local legal regulations.