

# MATERIAL SAFETY DATA SHEET

Page 1 of 4

Product Name: **SEALXPERT® SP20 CLEANER & DEGREASER**  
MSDS No: 209                      Revision No: 1

Issued by: Yogesh  
Issue Date: 11 August 2017

## Section 1 – Company Details

**Company Name:** SealXpert Products  
**Address:** 60 Kaki Bukit Place #09-11 Eunos Techpark  
Singapore 415979

**Tel:** +65 6742 4992/6742 4998  
**Fax:** +65 6749 6916  
**Email:** mailbox@sealxpert.com

## Section 2 – Composition

Ingredient	CAS NO.	Content (Wt%)
trichloroethylene	79-01-6	>60
tetrachloroethylene	127-18-4	10-30
carbon dioxide	124-38-9	1-9

## Section 3 – Hazardous Identification

### EMERGENCY OVERVIEW

**DANGER:** Flammable. Harmful or fatal if swallowed. May be harmful in contact with skin. Harmful if inhaled.

Potential health effects:

Acute effects:

**Eye:** Limited evidence or practical experience suggests, that the material may cause eye irritation in a substantial number of individuals. Prolonged eye contact may cause inflammation characterized by a temporary redness of the conjunctiva (similar to windburn).  
Not considered to be a risk because of the extreme volatility of the gas.  
Direct eye contact with petroleum hydrocarbons can be painful, and the corneal epithelium may be temporarily damaged.  
Aromatic species can cause irritation and excessive tear secretion.

**Skin:** This material can cause inflammation of the skin on contact in some persons.  
The material may accentuate any pre-existing dermatitis condition.  
Repeated exposure may cause skin cracking, flaking or drying following normal handling and use.  
Skin contact with the material may damage the health of the individual; systemic effects may result following absorption.  
Spray mist may produce discomfort.  
Open cuts, abraded or irritated skin should not be exposed to this material.

**Inhalation:** Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo.  
Inhalation of aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual.  
There is some evidence to suggest that the material can cause respiratory irritation in some persons.  
The body's response to such irritation can cause further lung damage.  
Inhalation of high concentrations of gas/vapour causes lung irritation with coughing and nausea, central nervous depression with headache and dizziness, slowing of reflexes, fatigue and inco-ordination.

**Ingestion:** Accidental ingestion of the material may be damaging to the health of the individual.  
Not normally a hazard due to physical form of product.  
Considered an unlikely route of entry in commercial/industrial environments.  
Ingestion of petroleum hydrocarbons can irritate the pharynx, oesophagus, stomach and small intestine, and cause swellings and ulcers of the mucous. Symptoms include a burning mouth and throat; larger amounts can cause nausea and vomiting, narcosis, weakness, dizziness, slow and shallow breathing, abdominal swelling, unconsciousness and convulsions.

Chronic effects: Harmful - danger of serious damage to health by prolonged exposure through inhalation.

Target organs: None known

# MATERIAL SAFETY DATA SHEET

Page 2 of 4

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## Section 4 – First Aid Measures

- Eye contact: Rinse continuously with running water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- Skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.
- Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
- Ingestion: Rinse mouth. If swallowed, do not induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed:

May be fatal if swallowed and enters airways. May cause genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child.

## Section 5 – Fire Fighting Measures

Flammable Properties: This product is flammable in accordance with aerosol flammability definitions.

Fire and Explosion Data:

Suitable extinguishing media:

Foam, dry chemical, or water spray

Explosion hazards:

Aerosol containers, when exposed to heat from fire, may build pressure and explode. Vapours may accumulate in a confined space and create a flammable atmosphere.

Protection of fire-fighters:

Firefighters should wear self-contained, NIOSH-approved breathing apparatus for protection against suffocation and possible toxic decomposition products. Proper eye and skin protection should be provided. Use water spray to keep fire-exposed containers cool and to knock down vapours which may result from product decomposition.

Fire Incompatibility:

Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

## Section 6 – Accidental Release Measures

Personnel precautions:

Ensure adequate ventilation, especially in confined areas  
Avoid contact with skin, eyes or clothing  
Avoid breathing vapours or mists  
Use personal protection recommended in Section 8

Environmental precautions:

Do not allow into any sewer, on the ground or into any body of water

Spill cleanup measures:

Prevent further leakage or spillage if safe to do so. Absorb spillage to prevent material damage. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Shut off all possible sources of ignition and increase ventilation.

## Section 7 – Handling and Storage

Handling:

Handle in accordance with good industrial hygiene and safety practice  
Ensure adequate ventilation, especially in confined areas  
Avoid contact with skin, eyes or clothing  
Wash contaminated clothing before reuse  
Remove all sources of ignition  
Wash thoroughly after handling  
Do not eat, drink or smoke when using this product  
Use personal protection recommended in Section 8  
Do not puncture or incinerate cans

Storage:

Keep containers tightly closed in a dry, cool and well-ventilated place  
Keep away from heat  
Keep locked up and out of reach of children  
Keep away from food, drink and animal feeding stuffs  
Store in accordance with local regulations

Hygiene practices:

Wash thoroughly after handling.

# MATERIAL SAFETY DATA SHEET

Page 3 of 4

Product Name: **SEALXPERT® SP20 CLEANER & DEGREASER**  
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## Section 8 – Exposure Controls / Personal Protection

Engineering controls:	Ensure adequate ventilation, especially in confined areas.
Eye protection:	Wear safety glasses with side shields (or goggles)
Skin protection:	Wear appropriate protective gloves and other protective apparel to prevent skin contact.
Respiratory system protection:	None required for normal work where adequate ventilation is provided. If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with organic vapor cartridge. Air monitoring is needed to determine actual employee exposure levels. Use a self-contained breathing apparatus in confined spaces and for emergencies.

## Section 9 – Physical and Chemical Characteristics

Appearance:	Aerosol
Physical state:	Liquid
Odour:	Mild ethereal
Odour threshold:	Not Available
pH (as supplied):	Not Applicable
Melting point / freezing point (°C):	<0
Initial boiling point and boiling range (°C):	86 initial
Flash point (°C):	Not Available
Evaporation rate:	Not Available
Flammability:	Highly Flammable
Upper Explosive Limit (%):	90
Lower Explosive Limit (%):	12.5
Vapour pressure (kPa):	6.4 @ 20°C
Solubility in water (g/L):	Immiscible
Vapour density (Air = 1):	>1
Relative density (Water = 1):	1.51
Partition coefficient n-octanol / water:	Not Available
Auto-ignition temperature (°C):	Not Available
Decomposition temperature:	Not Available
Viscosity (cSt):	Not Available
Molecular weight (g/mol):	Not Applicable
Explosive properties:	Not Available
Oxidising properties:	Not Available
Surface Tension (dyn/cm or mN/m):	Not Available
Volatile Component (%vol):	100
Gas group:	Not Available
pH as a solution (1%):	Not Applicable
VOC g/L:	1372.47

## Section 10 – Stability and Reactivity

Stability:	Stable under normal conditions
Possibility of hazardous reactions:	Risk of explosion if heated under confinement
Conditions to avoid:	Heat, flames and sparks
Incompatible materials:	Strong oxidizing agents
Hazardous decomposition products:	None under normal use conditions

## Section 11 – Toxicological Information

Health hazard:	Refer to section 3
Sensitization:	Not known
Mutagenicity:	Not known
Procreation transmissibility:	Not known
Carcinogenicity:	Not known
Other health hazard information:	Unavailable

# MATERIAL SAFETY DATA SHEET

Page 4 of 4

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## Section 12 – Ecological Information

Toxicity: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Environmental fate: Carbon dioxide in earth's atmosphere is considered a trace gas. There are seasonal fluctuations of atmospheric concentrations of carbon dioxide primarily due to CO<sub>2</sub> absorbed during seasonal plant growth. Due to human activities such as the combustion of fossil fuels and deforestation, the concentration of atmospheric carbon dioxide has increased by about 35% since preindustrial times. Carbon dissolved in the oceans is about 50 times greater than CO<sub>2</sub> found in the atmosphere.

## Section 13 – Disposal Considerations

Special instructions: Observe all federal, state and local laws and regulations.

## Section 14 – Transportation Information

Transportation: Not classified as Dangerous Goods according to Singapore Code for Transport of Dangerous Goods by Road, Rail and Sea.

## Section 15 – Regulatory Information

Observe the governmental or local regulations to use the product safely.

## Section 16 – Other Information

Discard contaminated clothing immediately. Maintain clean equipment and work areas. Avoid inhalation. Wipe up spills immediately.

### Warning to users:

This data sheet completes the technical notices but does not supersede them. The information contained in it is grounded to the statement of our knowledge of the product concerned at the publishing date.

Moreover, user's attention should be drawn on the possible risks incurred when a product is used for other purposes than those for which it has been designed. It does not stop in any case the user knowing and following the whole regulatory texts related to his activity. He will be the sole responsible of the precautions related to the use of the products he knows.

The aim of the whole regulatory prescriptions mentioned is to help the receiver to fulfill his duties when using the product. This list must not be considered as exhaustive. It does not stop the user from making sure that he complies with the written obligations other than those previously cited and which rule the fact of keeping and using the product for which he is the sole responsible person.