



SAFETY DATA SHEET

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BeautiSealant
PASTE
Printing date: August 1, 2017

SECTION 1. Identification of the substance or mixture and of the supplier

- 1.1 Product identifier
Trade Name:
BeautiSealant "PASTE"
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant identified uses: Dental material
Uses advised against: No further data
- 1.3 Details of the supplier of the safety data sheet
Company/Undertaking identification
Manufacturer's Name: **SHOFU INC.**
Address: 11 Kamitakamatsu-cho, Fukuine, Higashiyama-ku, Kyoto 605-0983, JAPAN
Phone: +81-75-561-1112
Fax: +81-75-275-4795
Section in Charge: Quality Assurance Section
- 1.4 Emergency Telephone Number
+81-75-561-1112

SECTION 2. Hazards identification

- 2.1 GHS Classification
- PHYSICAL HAZARDS
- | | |
|--|----------------|
| FLAMMABLE LIQUIDS | Not Classified |
| SELF-HEATING SUBSTANCES AND MIXTURES | Not Classified |
| SUBSTANCES AND MIXTURES WHICH, IN CONTACT WITH WATER, EMIT FLAMMABLE GASAS | Not Classified |
- HEALTH HAZARDS
- | | |
|---|---|
| ACUTE TOXICITY-ORAL | Category 4 |
| ACUTE TOXICITY-DERMAL | Not Classified |
| SKIN CORROSION/IRRITATION | Category 2 |
| EYE DAMAGE/IRRITATION | Category 1 |
| SENSITIZATION-SKIN | Not Classified |
| GERM CELL MUTAGENICITY | Category 2 |
| CARCINOGENICITY | Not Classified |
| TOXIC TO REPRODUCTION | Not Classified |
| SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (SINGLE EXPOSURE) | Category 2 (heart, nervous system, kidneys, liver) |
| SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (REPEATED EXPOSURE) | Category 2 (respiratory organ, nervous system, kidneys) |
- ENVIRONMENTAL HAZARDS
- | | |
|---|----------------|
| HAZARDOUS TO THE AQUATIC ENVIRONMENT-ACUTE HAZARD | Not Classified |
| HAZARDOUS TO THE AQUATIC ENVIRONMENT-CHRONIC HAZARD | Not Classified |
- The thing without mention is out of a classification object. Or cannot classify it.



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2.2 Label elements

SYMBOL



GHS07 GHS05 GHS08

SIGNAL WORD Danger

HAZARD STATEMENTS

- Harmful if swallowed.
- Causes skin irritation.
- Causes serious eye damage.
- Suspected of causing genetic defects.
- May cause damage to organs. (heart, nervous system, kidneys, liver)
- May cause damage to organs through prolonged or repeated exposure. (respiratory organ, nervous system, kidneys)

PRECAUTIONARY STATEMENTS

- [Prevention]
 - Do not handle until all safety precautions have been read and understood.
 - Wear protective gloves and eye/face protection.
 - Do not breathe dust/vapors.
 - Do not eat, drink or smoke when using this product.
 - Wash hands thoroughly after handling.
- [Response]
 - IF ON SKIN: Wash with plenty of water and soap.
 - If skin irritation or rash occurs: Get medical advice/attention.
 - If in eyes, rinse cautiously with water for several minutes.
 - Remove contact lenses, if present and easy to do.
 - If eye irritation persists, get medical advice/attention.
 - IF SWALLOWED: Get medical advice/attention if you feel unwell.
- [Storage]
 - Store in a cool and dark area.(Keep refrigerated when not in use)
- [Disposal]
 - Dispose of contents and container in accordance with regulation.

2.3 Other hazards

- Results of PBT and vPvB assessment
 - PBT: Not applicable.
 - vPvB: Not applicable.

SECTION 3. Composition/information on ingredients

- 3.1 Chemical characterization: Mixtures
- 3.2 Description: Mixture of substances listed below with nonhazardous additions.



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- 3.3 Dangerous components:
- | | |
|---------------------------|---------|
| Glass powder | 30-40 % |
| UDMA [Cas.No. 72869-88-4] | 25-30 % |
| TEGDMA [Cas No. 109-16-0] | |
| Others | |
- 3.4 Additional information: For the wording of the listed risk phrases refer to section 2

SECTION 4. First-aid measures

- 4.1 Description of first aid measures
- Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present. and easy to do. If eye irritation persists, get medical advice/attention.
- Skin contact: Wash immediately with soap and plenty of water. If on skin, skin irritation, get medical advice/attention.
- Ingestion: Rinse mouth and seek medical advice if necessary.
- Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptom concerning breath goes out, call a POISON CENTER or doctor.
- 4.2 Most important symptoms and effects, both acute and delayed
No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

SECTION 5. Fire-fighting measures

- 5.1 Extinguishing Media:
Foam, CO₂, Powder
- 5.2 Special hazards arising from the substance or mixture:
Fire may produce irritating, corrosive and/or toxic gases.
- 5.3 Advice for firefighters:
Wear fire protective cloth and self-contained breathing apparatus, if necessary.

SECTION 6. Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures:
Avoid contact with eyes and skin.
- 6.2 Environmental Precautions:
Send to approved treatment/disposal company or dispose according to local, state and federal regulations.
- 6.3 Methods and material for containment and cleaning Up:
Wipe up and discard in a stable container.
- 6.4 Reference to other section:
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7. Handling and storage

- 7.1 Precautions for safe handling:
Avoid inhalation of grindings and prolonged skin contact with uncured resin.



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- 7.2 Conditions for safe storage, including any incompatibilities:
Store in a cool and dark area. (Keep refrigerated when not in use)
- 7.3 Specific end use(s):
No further relevant information available.

SECTION 8. Exposure controls/personal protection

- 8.1 Control parameters:
Ingredients with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- 8.2 Exposure controls:
- Respiratory Protection: Not required (use protective gas mask for organic gas, if necessary)
- Skin Protection: Hand Protection
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
- Material of gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
 - Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
 - For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:
Butyl rubber, BR
Nitrile rubber, NBR
- Eye Protection: Safety goggles

SECTION 9. Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
- | | |
|------------------------------|---|
| Appearance/Odor/Colour: | Low viscosity paste of the lemon yellow |
| Odour threshold | Not determined. |
| pH | Not determined. |
| Melting point/freezing point | Not determined. |
| Boiling Point: | Not determined. |
| Flash point: | Not determined. |
| Evaporation rate | Not determined. |
| Flammability (solid, gas) | Not applicable. |



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Upper/lower flammability or explosive limits	Not determined.
Vapour pressure	Not determined.
Vapour density	Not determined.
Relative Density:	≈ 1.2 (water=1)
Solubility: water solubility	Insoluble
Partition coefficient: n-octanol/water	Not determined.
Auto-ignition temperature	Not determined.
Decomposition temperature	Not determined.
Viscosity	Not determined.
Explosive properties	Not applicable.
Oxidising properties	Not applicable.

9.2 Other information

No further relevant information available.

SECTION 10. Stability and reactivity

10.1 Reactivity:

Polymerization will occur with heat, light.

10.2 Chemical stability:

Stable under normal temperatures and pressures.

10.3 Possibility of hazardous reactions:

No dangerous reactions known.

10.4 Condition to Avoid:

Direct sunlight, high temperature and heating.

10.5 Incompatible materials:

Strong oxidizing materials.

10.6 Hazardous Decomposition Products:

None under normal conditions of storage and use.

SECTION 11. Toxicological information

11.1 Information on toxicological effects:

Acute toxicity: H302 Harmful if swallowed.

Skin corrosion/irritation: H315 Causes skin irritation.

Eye damage/irritation: H319 Causes serious eye irritation.

Sensitization to the respiratory tract:

Based on available data, the classification criteria are not met.

Skin sensitization:

Based on available data, the classification criteria are not met.

Germ cell mutagenicity/Genotoxicity:

H341 Suspected of causing genetic defects.

Carcinogenicity:

Based on available data, the classification criteria are not met.

Reproductive toxicity:

Based on available data, the classification criteria are not met.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure):

H371 May cause damage to organs. (heart, nervous system, kidneys, liver)



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Specific target organ toxicity (repeated exposure):

H373 May cause damage to organs through prolonged or repeated exposure. (respiratory organ, nervous system, kidneys)

Aspiration hazard:

Based on available data, the classification criteria are not met.

SECTION 12. Ecological information

12.1 Toxicity:

No further relevant information available.

12.2 Persistence and degradability:

No further relevant information available.

12.3 Bioaccumulative potential:

No further relevant information available.

12.4 Mobility in soil:

No further relevant information available.

12.5 Results of PBT and vPvB assessment:

Not applicable.

12.6 Other adverse effects:

No further relevant information available.

SECTION 13. Disposal considerations

13.1 Waste treatment methods:

Dispose of contents/container to in accordance with local/regional/national/international regulations.

SECTION 14. Transport information

14.1 UN number:

Void

14.2 UN proper shipping name:

Void

14.3 Transport hazard class(es):

Void

14.4 Packing group:

Void

14.5 Environmental hazards:

No further relevant information available.

14.6 Special precautions for user:

Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:

Not applicable.

SECTION 15. Regulatory informati

Follow all regulations in your country.

SECTION 16. Other information

This product is intended for use by dental professionals. (instrument/material)

Relevant phrases:

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H341 Suspected of causing genetic defects.

H371 May cause damage to organs. (heart, nervous system, kidneys, liver)



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H373 May cause damage to organs through prolonged or repeated exposure.
(respiratory organ, nervous system, kidneys)

Abbreviations and acronyms:

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

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SECTION 1. Identification of the substance or mixture and of the supplier

- 1.1 Product identifier
Trade Name:
BeutiSealant "PRIMER"
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant identified uses: Dental material
Uses advised against: No further data
- 1.3 Details of the supplier of the safety data sheet
Company/Undertaking identification
Manufacturer's Name: **SHOFU INC.**
Address: 11 Kamitakamatsu-cho, Fukuine, Higashiyama-ku, Kyoto 605-0983, JAPAN
Phone: +81-75-561-1112
Fax: +81-75-275-4795
Section in Charge: Quality Assurance Section
- 1.4 Emergency Telephone Number
+81-75-561-1112

SECTION 2. Hazards identification

- 2.1 GHS Classification
- PHYSICAL HAZARDS
- | | |
|---------------------|----------------|
| FLAMMABLE LIQUIDS | Category 2 |
| PYROPHORIC LIQUIDS | Not Classified |
| CORROSIVE TO METALS | Not Classified |
- HEALTH HAZARDS
- | | |
|---|---|
| ACUTE TOXICITY-ORAL | Not Classified |
| ACUTE TOXICITY-DERMAL | Not Classified |
| ACUTE TOXICITY-INHALATION(VAPOURS) | Not Classified |
| SKIN CORROSION/IRRITATION | Not Classified |
| EYE DAMAGE/IRRITATION | Category 2A |
| SENSITIZATION-RESPIRATORY | Category 1 |
| SENSITIZATION-SKIN | Category 1 |
| GERM CELL MUTAGENICITY | Not Classified |
| CARCINOGENICITY | Not Classified |
| TOXIC TO REPRODUCTION | Category 2 |
| SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (SINGLE EXPOSURE) | Category 3 (respiratory tract irritation, narcotic effects) |
| SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (REPEATED EXPOSURE) | Category 2 (blood) |
- ENVIRONMENTAL HAZARD
- | | |
|---|----------------|
| HAZARDOUS TO THE AQUATIC ENVIRONMENT-ACUTE HAZARD | Not Classified |
| HAZARDOUS TO THE AQUATIC ENVIRONMENT-CHRONIC HAZARD | Not Classified |
- The thing without mention is out of a classification object. Or cannot classify it.



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2.2 Label elements

SYMBOL



GHS02

GHS07

GHS08

HAZARD-DETERMINING COMPONENTS OF LABELLING

Acetone

SIGNAL WORD Danger

HAZARD STATEMENTS

Highly flammable liquid and vapor.

May cause an allergic skin reaction.

Causes serious eye irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause respiratory irritation.

May cause drowsiness and dizziness.

Suspected of damaging fertility or the unborn child.

May cause damage to organs through prolonged or repeated exposure. (blood)

PRECAUTIONARY STATEMENTS

[Prevention]

Do not handle until all safety precautions have been read and understood.

Wear protective gloves and eye/face protection.

Do not breathe mist/vapors.

Do not eat, drink or smoke when using this product.

Keep away from ignition sources such as heat/sparks/open flames-No smoking.

Use only outdoors or in a well-ventilated area.

Keep container tightly closed.

Wash hands thoroughly after handling.

[Response]

IF IN EYES: Rinse cautiously with water for several minutes.

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

If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If experiencing respiratory symptoms: Get medical advice/attention.

IF SWALLOWED: Rinse mouth.

Call a POISON CENTER or doctor /physician if you feel unwell.

[Storage]

Store in a cool and dark area.(Keep refrigerated when not in use)

[Disposal]

Dispose of contents and container in accordance with regulation.



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- 2.3 Other hazards
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

SECTION 3. Composition/information on ingredients

- 3.1 Chemical characterization: Mixtures
3.2 Description: Mixture of substances listed below with nonhazardous additions.
3.3 Dangerous components:
Acetone [Cas.No.67-64-1] 55-60 %
Purified water
Phosphonate monomer
Others
3.4 Additional information: For the wording of the listed risk phrases refer to section 2

SECTION 4. First-aid measures

- 4.1 Description of first aid measures
Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present. and easy to do. If eye irritation persists, get medical advice/attention.
Skin contact: Wash immediately with soap and plenty of water. If on skin, skin irritation, get medical advice/attention.
Ingestion: Rinse mouth and seek medical advice if necessary.
Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptom concerning breath goes out, call a POISON CENTER or doctor.
4.2 Most important symptoms and effects, both acute and delayed
No further relevant information available.
4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

SECTION 5. Fire-fighting measures

- 5.1 Extinguishing Media:
Foam, CO₂, Powder
5.2 Special hazards arising from the substance or mixture:
Easily flammable liquid in room temp.
Fire may produce irritating, corrosive and/or toxic gases.
5.3 Advice for firefighters:
Wear fire protective cloth and self-contained breathing apparatus, if necessary.

SECTION 6. Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures:
Avoid contact with eyes and skin.
6.2 Environmental Precautions:
Send to approved treatment/disposal company or dispose according to local, state and federal regulations.
6.3 Methods and material for containment and cleaning Up:
Wipe up and discard in a stable container.



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- 6.4 Reference to other section:
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7. Handling and storage

- 7.1 Precautions for safe handling:
Handle in a well ventilated place.
Keep away from open flames, sparks and sources of heat. No smoking.
- 7.2 Conditions for safe storage, including any incompatibilities:
Store in a cool and dark area with container tightly closed.
Separated from strong oxidants. (Keep refrigerated when not in use.)
- 7.3 Specific end use(s):
No further relevant information available.

SECTION 8. Exposure controls/personal protection

- 8.1 Control parameters:

Exposure limits:

	ACGIH	NIOSH	OSHA-Final PELs
Acetone	500 ppm TWA 750 ppm STEL	250 ppm TWA (590mg/m ³ TWA) 2500 ppm IDLH	1000 ppm TWA 2400 mg/m ³ TWA

- 8.2 Exposure controls:

Respiratory Protection:

Not required (use protective gas mask for organic gas, if necessary)

Skin Protection:

Hand Protection

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

- Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.



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· For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:
Butyl rubber, BR
Nitrile rubber, NBR

Eye Protection: Safety goggles

SECTION 9. Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
- | | |
|--|----------------------------------|
| Appearance/Odor/Colour: | Colorless liquid with sweet odor |
| Odour threshold | Not determined. |
| pH | Not determined. |
| Melting point/freezing point | Not determined. |
| Boiling Point: | Not determined. |
| Flash point: | -10 °C (closed) |
| Evaporation rate | Not determined. |
| Flammability (solid, gas) | Not applicable. |
| Upper/lower flammability or explosive limits | Not determined. |
| Vapour pressure | Not determined. |
| Vapour density | Not determined. |
| Relative Density: | 0.94 (water=1) |
| Solubility: water solubility | Soluble |
| Partition coefficient: n-octanol/water | Not determined. |
| Auto-ignition temperature | Not determined. |
| Decomposition temperature | Not determined. |
| Viscosity | Not determined. |
| Explosive properties | Not applicable. |
| Oxidising properties | Not applicable. |
- 9.2 Other information
No further relevant information available.

SECTION 10. Stability and reactivity

- 10.1 Reactivity:
No further relevant information available.
- 10.2 Chemical stability:
Stable under normal temperatures and pressures.
- 10.3 Possibility of hazardous reactions:
No dangerous reactions known.
- 10.4 Condition to Avoid:
Excessive heat (high temperature), open flames, ignition source, and exposure to sunlight.
- 10.5 Incompatible materials:
Strong oxidizing materials.
- 10.6 Hazardous Decomposition Products:
None under normal conditions of storage and use.



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SECTION 11. Toxicological information

11.1 Information on toxicological effects:

Acute toxicity:	Acetone;	Inhalation toxicity: rat LC50 75.8 mg/L Oral toxicity; rat LD50 > 5000 mg/kg Dermal toxicity; rabbit LD50 > 5000 mg/kg
Skin corrosion/irritation:	Based on available data, the classification criteria are not met.	
Eye damage/irritation:	H319 Causes serious eye irritation.	
Sensitization to the respiratory tract:	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
Skin sensitization:	H317 May cause an allergic skin reaction.	
Germ cell mutagenicity/Genotoxicity:	Based on available data, the classification criteria are not met.	
Carcinogenicity:	Based on available data, the classification criteria are not met.	
Reproductive toxicity:	H361 Suspected of damaging fertility or the unborn child.	
Effects on or via lactation:	Lack of data.	
Specific target organ toxicity (single exposure):	H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness.	
Specific target organ toxicity (repeated exposure):	H373 May cause damage to organs through prolonged or repeated exposure. (blood)	
Aspiration hazard:	Based on available data, the classification criteria are not met.	

SECTION 12. Ecological information

- 12.1 Toxicity:
Acetone:
Fish toxicity: Fathead minnow; LC50/96H >100mg/L
- 12.2 Persistence and degradability:
No further relevant information available.
- 12.3 Bioaccumulative potential:
No further relevant information available.
- 12.4 Mobility in soil:
No further relevant information available.
- 12.5 Results of PBT and vPvB assessment:
Not applicable.
- 12.6 Other adverse effects:
No further relevant information available.

SECTION 13. Disposal considerations

- 13.1 Waste treatment methods:
Dispose of contents/container to in accordance with local/regional/national/international regulations.



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SECTION 14. Transport information

- | | |
|---|--|
| 14.1 UN number: | 1090 |
| 14.2 UN proper shipping name: | Acetone, solution |
| 14.3 Transport hazard class(es): | 3 Flammable liquids. |
| 14.4 Packing group: | II |
| 14.5 Environmental hazards: | No further relevant information available. |
| 14.6 Special precautions for user: | Not applicable. |
| 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: | Not applicable. |

SECTION 15. Regulatory informati

Follow all regulations in your country.

SECTION 16. Other information

This product is intended for use by dental professionals. (instrument/material)

Relevant phrases:

- H225 Highly flammable liquid and vapour.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H361 Suspected of damaging fertility or the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure. (blood)

Abbreviations and acronyms:

- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative