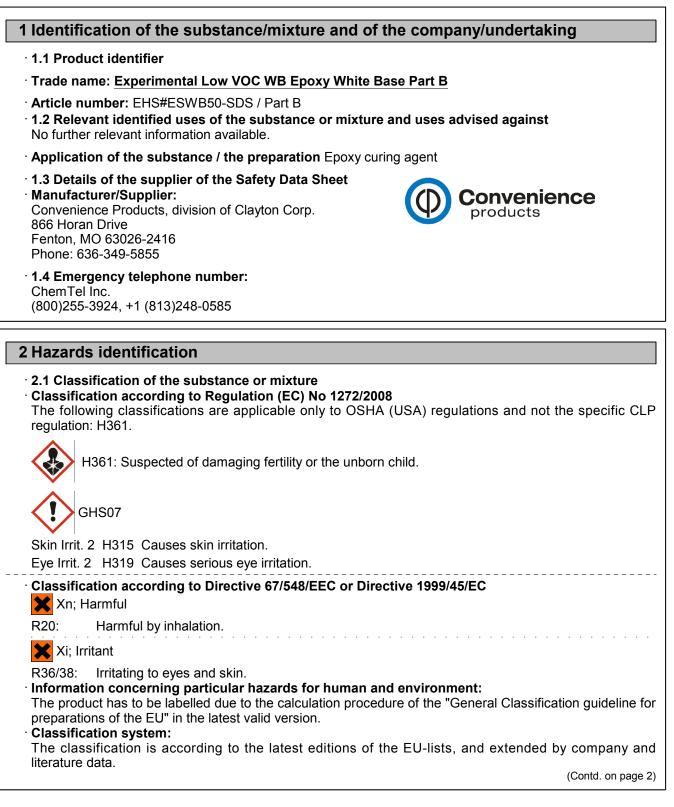
Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and

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Trade name: Experimental Low VOC WB Epoxy White Base Part B (Contd. of page 1) The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company. · 2.2 Label elements · Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. · Hazard pictograms GHS08 Applicable for the United States (OSHA) only. · Signal word Warning Hazard statements H361: Suspected of damaging fertility or the unborn child. (USA only) H315 Causes skin irritation. H319 Causes serious eye irritation. · Precautionary statements Wear protective gloves/protective clothing/eye protection/face protection. P280 P264 Wash thoroughly after handling. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P302+P352 IF ON SKIN: Wash with plenty of soap and water. · Hazard description: · WHMIS-symbols: D2B - Toxic material causing other toxic effects · NFPA ratings (scale 0 - 4) Health = 2Fire = 1Reactivity = 0 · HMIS-ratings (scale 0 - 4) *2 Health = *2 HEALTH 1 Fire = 1 FIRE **REACTIVITY** Reactivity = 0 (Contd. on page 3)

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HMIS Long Term Health Hazard Substances

13463-67-7 titanium dioxide

149-57-5 2-ethylhexanoic acid

2.3 Other hazards

· Results of PBT and vPvB assessment

• **PBT:** Not applicable.

· vPvB: Not applicable.

| 3.2 Mixtures Description: Mixture of subs | stances listed below with nonhazardous additions. | |
|--|--|------|
| Dangerous components: | | |
| CAS: 103-83-3 EINECS: 203-149-1 Index number: 612-074-00-7 | | <10 |
| | Flam. Liq. 3, H226 Skin Corr. 1B, H314 Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332 Aquatic Chronic 3, H412 | |
| CAS: 149-57-5 EINECS: 205-743-6 Index number: 607-230-00-6 | 2-ethylhexanoic acid Xn R63 Repr. Cat. 3 Repr. 2, H361d | <10 |
| CAS: 7631-86-9 EINECS: 231-545-4 | silicon dioxide, chemically prepared Xi R36/38 Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 | <10 |
| CAS: 1344-28-1 EINECS: 215-691-6 | aluminium oxide | <10 |
| CAS: 13463-67-7 EINECS: 236-675-5 | titanium dioxide | 10-2 |

4 First aid measures

· 4.1 Description of first aid measures

• General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• After inhalation:

Supply fresh air; consult doctor in case of complaints.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

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If skin irritation continues, consult a doctor. · After eye contact: Remove contact lenses if worn. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. · After swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting; call for medical help immediately. · 4.2 Most important symptoms and effects, both acute and delayed Nausea Cramp Coughing Breathing difficulty · Hazards No further relevant information available. • 4.3 Indication of any immediate medical attention and special treatment needed In cases of irritation to the lungs, initial treatment with cortical steroid inhalants. If necessary oxygen respiration treatment. Medical supervision for at least 48 hours.

5 Firefighting measures

• 5.1 Extinguishing media

· Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire extinguishing methods suitable to surrounding conditions.

- · For safety reasons unsuitable extinguishing agents: None.
- 5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Nitrogen oxides (NOx)

Carbon monoxide (CO)

5.3 Advice for firefighters

Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information No further relevant information available.

6 Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

• 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

· 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Send for recovery or disposal in suitable receptacles.

Dispose contaminated material as waste according to item 13.

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· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

· 7.1 Precautions for safe handling

Store in cool, dry place in tightly closed receptacles. Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

• Information about fire - and explosion protection: No special measures required.

· 7.2 Conditions for safe storage, including any incompatibilities · Storage:

· Requirements to be met by storerooms and receptacles: Avoid storage near extreme heat, ignition sources or open flame. No special requirements. · Information about storage in one common storage facility: Store away from oxidizing agents. Do not store together with acids. Store away from foodstuffs. · Further information about storage conditions: Protect from humidity and water. Keep container tightly sealed.

Protect from frost.

· 7.3 Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical facilities: No further data; see item 7.

· 8.1 Control parameters

| Ingredients with limit values that require monitoring at the workplace: | | |
|---|---|--------------------|
| 149-57-5 2-ethylhexanoic acid | | |
| TLV (USA) | Long-term value: 5* mg/m ³ *as inhalable fraction and vapor | |
| EL (Canada) | Long-term value: 5 mg/m³ vapour and aerosol; R | |
| EV (Canada) | Long-term value: 5 mg/m³ inhalable, aerosol and vapour | |
| DNELs No further relevant information available. PNECs No further relevant information available. Additional information: The lists valid during the making were used as basis. | | |
| | | (Contd. on page 6) |

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|-------------------------------------|--|
| 8.2 Exposure | |
| | ve equipment: |
| | re and hygienic measures: |
| Do not eat or d | |
| | should strictly avoid inhalation or skin contact. ionary measures are to be adhered to when handling chemicals. |
| | bodstuffs, beverages and feed. |
| | ve all soiled and contaminated clothing. |
| | e breaks and at the end of work. |
| Avoid contact v | the eyes and skin. |
| Respiratory p | |
| | ratory protective device when aerosol or mist is formed. |
| | ratory protective device when high concentrations are present. |
| | organic vapor respirator equipped with a dust/mist prefilter should be used. |
| Protection of I | (d \$: |
| Man - · | |
| Protec | gloves |
| | |
| | I has to be impermeable and resistant to the product/ the substance/ the preparation. |
| | glove material on consideration of the penetration times, rates of diffusion and |
| degradation. | |
| Material of glo | > he suitable gloves does not only depend on the material, but also on further mark |
| | s from manufacturer to manufacturer. As the product is a preparation of seve |
| | esistance of the glove material can not be calculated in advance and has therefore to |
| checked prior t | |
| | of glove material |
| | nrough time has to be found out by the manufacturer of the protective gloves and ha |
| be observed. | |
| | nt contact gloves made of the following materials are suitable: |
| Butyl rubber, B | |
| Neoprene glove Nitrile rubber, N | |
| Eye protection | |
| | |
| Safety | |
| Salety | .5565 |
| De de ser de set | |
| | Impervious protective clothing |
| | Ipervision of exposure into the environment t information available. |
| Risk managen | |
| | additional information. |
| | t information available. |
| | |

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| 9.1 Information on basic physical a | and chemical properties | |
|--------------------------------------|---|--|
| General Information | | |
| Appearance: | | |
| Form: | Liquid | |
| Colour: Odour: | White Light | |
| Odour threshold: | Not determined. | |
| pH-value: | Not determined. | |
| Change in condition | | |
| Melting point/Melting range: | Undetermined. | |
| Boiling point/Boiling range: | 212 °F / 100 °C | |
| Flash point: | 212 °F / 100 °C | |
| Flammability (solid, gaseous): | Not applicable. | |
| Ignition temperature: | Not determined. | |
| Decomposition temperature: | Not determined. | |
| Self-igniting: | Product is not self-igniting. | |
| Danger of explosion: | Product does not present an explosion hazard. | |
| Explosion limits: | | |
| Lower: | Not determined. | |
| Upper: | Not determined. | |
| Vapour pressure: | Not determined. | |
| Density at 20 °C: | 1,28 g/cm ³ | |
| Relative density | Not determined. | |
| Vapour density | Not determined. | |
| Evaporation rate | Not determined. | |
| Solubility in / Miscibility with | | |
| water: | Fully miscible. | |
| Partition coefficient (n-octanol/wat | ter): Not determined. | |
| Viscosity: | | |
| Dynamic: | Not determined. | |
| Kinematic: | Not determined. | |
| Solvent content: | | |
| Organic solvents: | 3,2 % | |
| Water: | 58,8 % | |
| VOC (US EPA Method 24) | 15,1 g/l | |
| VOC (US EPA Method 24A) | 6,1 g/l | |
| Solids content: | 2,9 % | |

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· 9.2 Other information

No further relevant information available.

10 Stability and reactivity

- · 10.1 Reactivity
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used and stored according to specifications.
- 10.3 Possibility of hazardous reactions

Reacts with strong oxidizing agents.

Reacts with strong acids. Exothermic polymerization.

Toxic fumes may be released if heated above the decomposition point.

- 10.4 Conditions to avoid No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- · 10.6 Hazardous decomposition products:
- Formaldehvde Hydrocarbons
- Toxic metal oxide smoke

Carbon monoxide and carbon dioxide

11 Toxicological information

11.1 Information on toxicological effects

· Acute toxicity:

· LD/LC50 values relevant for classification:

149-57-5 2-ethylhexanoic acid

Oral LD50 3000 mg/kg (rat)

Dermal LD50 1260 mg/kg (rabbit)

· Primary irritant effect:

· on the skin: Irritant to skin and mucous membranes.

· on the eye: Irritating effect.

· Sensitization: No sensitizing effects known.

· Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Harmful

Irritant

Repeated dose toxicity: May cause damage to organs through prolonged or repeated exposure .

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12 Ecological information

· 12.1 Toxicity

· Aquatic 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.

• Additional ecological information:

· General notes:

This statement was deduced from products with a similar structure or composition.

Due to available data on eliminability/decomposition and bioaccumulation potential a prolonged damage of the environment is unlikely.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment

• **PBT:** Not applicable.

· **vPvB:** Not applicable.

• 12.6 Other adverse effects No further relevant information available.

13 Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Can be disposed of with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

· Uncleaned packaging:

· Recommendation: Disposal must be made according to official regulations.

· Recommended cleansing agents: Water, if necessary together with cleansing agents.

| · 14.1 UN-Number | | |
|---|-----|--|
| DOT, ADR, ADN, IMDG, IATA | N/A | |
| [.] 14.2 UN proper shipping name [.] DOT, ADR, ADN, IMDG, IATA | N/A | |
| · 14.3 Transport hazard class(es) | | |
| DOT, ADR, ADN, IMDG, IATA | | |
| Class | N/A | |

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| | | (Contd. of page 9) |
|---|-----------------|--------------------|
| 14.4 Packing group DOT, ADR, IMDG, IATA | N/A | |
| 14.5 Environmental hazards: Marine pollutant: | No | |
| 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. | | |
| · UN "Model Regulation": | - | |

15 Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture · United States (USA)

· SARA

• Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

1344-28-1 aluminium oxide

• TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65 (California):

Chemicals known to cause cancer:

Reference to Titanium Dioxide is based on unbound respirable particles and is not generally applicable to product as supplied.

13463-67-7 titanium dioxide

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

149-57-5 2-ethylhexanoic acid

· Carcinogenic Categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

IARC (International Agency for Research on Cancer)

13463-67-7 titanium dioxide

7631-86-9 silicon dioxide

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| · TLV (Threshold Limit Value established by ACGIH) | |
|---|-------|
| 13463-67-7 titanium dioxide | A |
| 1344-28-1 aluminium oxide | A |
| 1314-23-4 zirconium dioxide | A |
| NIOSH-Ca (National Institute for Occupational Safety and Hea | alth) |
| 13463-67-7 titanium dioxide | |
| · OSHA-Ca (Occupational Safety & Health Administration) | |
| None of the ingredients is listed. | |
| [.] Canada | |
| Canadian Domestic Substances List (DSL) | |
| All ingredients are listed. | |
| Canadian Ingredient Disclosure list (limit 0.1%) | |
| | |
| None of the ingredients is listed. | |
| None of the ingredients is listed. Canadian Ingredient Disclosure list (limit 1%) | |
| | |
| Canadian Ingredient Disclosure list (limit 1%) | |
| Canadian Ingredient Disclosure list (limit 1%) 103-83-3 benzyldimethylamine | |

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

| H226 | Flammable liquid and vapour. |
|--|---|
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H361d | Suspected of damaging the unborn child. |
| H412 | Harmful to aquatic life with long lasting effects. |
| R10 R20/21/22 R34 R36/38 R52/53 R63 | Flammable. 2 Harmful by inhalation, in contact with skin and if swallowed. Causes burns. Irritating to eyes and skin. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Possible risk of harm to the unborn child. (Contd. on page 12) |

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(Contd. of page 11) · Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent Sources SDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com