

Safety Data Sheet

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

Printing date 12.06.2014






Revision: 12.06.2014

1 Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** Lightspeed Adhesive
- **Article number:** FT-PRBOT-L
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Adhesive.
- **1.3 Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
The Siemon Company
101 Siemon Company Drive
Watertown, CT 06795
Phone: 860-945-4200
- **1.4 Emergency telephone number:**
ChemTel Inc.
(800)255-3924, +1 (813)248-0585



2 Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
- 
 corrosion
 Skin Corr. 1B H314 Causes severe skin burns and eye damage.
- 
 Skin Sens. 1 H317 May cause an allergic skin reaction.
 STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
- 
 C; Corrosive
 R34: Causes burns.
- 
 Xi; Irritant
 R37: Irritating to respiratory system.
- 
 Xi; Sensitising
 R43: May cause sensitisation by skin contact.
- **Information concerning particular hazards for human and environment:**
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

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- **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

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**



GHS05 GHS07

- **Signal word** Danger

- **Hazard-determining components of labelling:**

methacrylic acid, monoester with propane-1,2-diol
acrylic acid

- **Hazard statements**

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

- **Precautionary statements**

P280 Wear protective gloves / eye protection.

P264 Wash thoroughly after handling.

P260 Do not breathe mist/vapours/spray.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

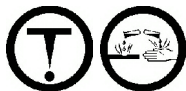
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Hazard description:**

- **WHMIS-symbols:**

D2B - Toxic material causing other toxic effects

E - Corrosive material



- **NFPA ratings (scale 0 - 4)**



Health = 3

Fire = 1

Reactivity = 0

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· HMIS-ratings (scale 0 - 4)

| | | |
|------------|---|----------------|
| HEALTH | 3 | Health = 3 |
| FIRE | 1 | Fire = 1 |
| REACTIVITY | 0 | Reactivity = 0 |

· HMIS Long Term Health Hazard Substances

None of the ingredients is listed.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

- PBT: Not applicable.
- vPvB: Not applicable.

3 Composition/information on ingredients

· 3.2 Mixtures

· **Description:** Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

| | | |
|--|--|--------|
| CAS: 27813-02-1 EINECS: 248-666-3 Index number: 607-125-00-5 | methacrylic acid, monoester with propane-1,2-diol Xi R36; Xi R43 Eye Irrit. 2, H319; Skin Sens. 1, H317 | >80% |
| CAS: 79-10-7 EINECS: 201-177-9 Index number: 607-061-00-8 | acrylic acid C R35; Xn R20/21/22; N R50 R10 Flam. Liq. 3, H226 Skin Corr. 1A, H314 Aquatic Acute 1, H400 Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332 | 1-5% |
| CAS: 80-15-9 EINECS: 201-254-7 Index number: 617-002-00-8 | α,α -dimethylbenzyl hydroperoxide T R23; C R34; Xn R21/22-48/20/22; O R7; N R51/53 Org. Perox. EF, H242 Acute Tox. 3, H331 STOT RE 2, H373 Skin Corr. 1B, H314 Aquatic Chronic 2, H411 Acute Tox. 4, H302; Acute Tox. 4, H312 | 1-2,5% |

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

· 4.1 Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.
Take affected persons out into the fresh air.

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- **After inhalation:**
Supply fresh air; consult doctor in case of complaints.
Provide oxygen treatment if affected person has difficulty breathing.
In case of irregular breathing or respiratory arrest provide artificial respiration.
- **After skin contact:**
Do not pull solidified product off the skin.
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
Seek immediate medical help for blistering or open wounds.
- **After eye contact:**
Remove contact lenses if worn, if possible.
Rinse opened eye for several minutes under running water. Then 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**
Headache
Dizziness
Coughing
Breathing difficulty
Nausea
Cramp
Gastric or intestinal disorders when ingested.
Allergic reactions
Strong caustic effect on skin and mucous membranes.
Strong irritant with the danger of severe eye injury.
Disorientation
- **Hazards**
Danger of gastric perforation.
Danger of severe eye injury.
Danger of disturbed cardiac rhythm.
Danger of convulsion.
Danger of cerebral oedema.
- **4.3 Indication of any immediate medical attention and special treatment needed**
If swallowed, gastric irrigation with added, activated carbon.
Contains methacrylic acid, monoester with propane-1,2-diol. May produce an allergic reaction.
If necessary oxygen respiration treatment.
Later observation for pneumonia and pulmonary oedema.
Vapours may cause drowsiness and dizziness.

5 Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
Water haze or fog
Foam
Fire-extinguishing powder
Carbon dioxide

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- **For safety reasons unsuitable extinguishing agents:**
Water with full jet
Water spray
- **5.2 Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.
- **Additional information**
Eliminate all ignition sources if safe to do so.
Cool endangered receptacles with water fog or haze.

6 Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Use respiratory protective device against the effects of fumes/dust/aerosol.
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Keep away from ignition sources.
- **6.2 Environmental precautions:**
Do not allow to enter sewers/ surface or ground water.
Inform respective authorities in case of seepage into water course or sewage system.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Pick up mechanically.
Send for recovery or disposal in suitable receptacles.
Dispose contaminated material as waste according to item 13.
- **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**
Prevent formation of aerosols.
Keep away from heat and direct sunlight.
Avoid splashes or spray in enclosed areas.
Use only in well ventilated areas.
- **Information about fire - and explosion protection:** Keep ignition sources away - Do not smoke.
- **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.
Provide ventilation for receptacles.

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- **Information about storage in one common storage facility:**
Store away from foodstuffs.
Store away from oxidizing agents.
- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed receptacles.
Keep container tightly sealed.
- **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:

79-10-7 acrylic acid

| | |
|-------------|--|
| REL (USA) | Long-term value: 6 mg/m ³ , 2 ppm Skin |
| TLV (USA) | Long-term value: 5,9 mg/m ³ , 2 ppm Skin |
| EL (Canada) | Long-term value: 2 ppm Skin; R |
| EV (Canada) | Long-term value: 2 ppm |

80-15-9 α,α -dimethylbenzyl hydroperoxide

| | |
|------------|--|
| WEEL (USA) | Long-term value: 6 mg/m ³ , 1 ppm Skin |
|------------|--|

- **DNELs** No further relevant information available.
- **PNECs** No further relevant information available.
- **Additional information:** The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.

Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.
Use suitable respiratory protective device when aerosol or mist is formed.
For spills, respiratory protection may be advisable.
Use respiratory protection when grinding or cutting material.

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- **Protection of hands:**



Protective gloves

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

- **Eye protection:**

Contact lenses should not be worn.



Safety glasses

- **Body protection:** Protective work clothing

- **Limitation and supervision of exposure into the environment**

No further relevant information available.

- **Risk management measures**

See Section 7 for additional information.

No further relevant information available.

9 Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form: Liquid

Colour: Green

- **Odour:** Mild

- **Odour threshold:** Not determined.

- **pH-value:** Not determined.

- **Change in condition**

Melting point/Melting range: Not Determined.

Boiling point/Boiling range: >298 °F / >148 °C

- **Flash point:** >200 °F / > 93 °C

- **Flammability (solid, gaseous):** Not applicable.

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- **Auto/Self-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:** 1,08 g/cm³
- **Relative density:** Not determined.
- **Vapour density:** Not determined.
- **Evaporation rate:** Not determined.
- **Solubility in / Miscibility with water:** Not miscible or difficult to mix.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
 - Dynamic:** Not determined.
 - Kinematic:** Not determined.
- **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 catalysts, oxidizing agents and strong alkali.
Reacts with amines.
Toxic fumes may be released if heated above the decomposition point.
Exothermic polymerization.
- **10.4 Conditions to avoid**
Keep ignition sources away - Do not smoke.
Store away from oxidizing agents.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** Carbon monoxide and carbon dioxide

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11 Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

79-10-7 acrylic acid

| | | |
|--------|------|--------------------|
| Oral | LD50 | 250 mg/kg (rat) |
| Dermal | LD50 | 280 mg/kg (rabbit) |

80-15-9 α,α -dimethylbenzyl hydroperoxide

| | | |
|------------|---------|-----------------|
| Oral | LD50 | 382 mg/kg (rat) |
| Dermal | LD50 | 500 mg/kg (rat) |
| Inhalative | LC50/4h | 220 mg/l (rat) |

- **Primary irritant effect:**
- **on the skin:** Caustic effect on skin and mucous membranes.
- **on the eye:** Strong caustic effect.
- **Sensitization:** Sensitization possible through skin contact.
- **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:
Corrosive
Irritant
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.
Toxic and/or corrosive effects may be delayed up to 24 hours.
Inhalation of concentrated vapours as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.
- **Acute effects (acute toxicity, irritation and corrosivity):**
Vapours have narcotic effect.
May be harmful if inhaled.
May be harmful if swallowed.
- **Repeated dose toxicity:** Repeated exposures may result in skin and/or respiratory sensitivity.

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.
- **Ecotoxicological effects:**
- **Remark:** Due to mechanical actions of the product (e.g. agglutinations) damages may occur.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

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

Must not reach sewage water or drainage ditch undiluted or unneutralized.

· **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**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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.

Can be disposed of with household garbage after solidification following consultation 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.

14 Transport information

· **14.1 UN-Number**

· **DOT, ADR, IMDG, IATA**

UN3267

· **14.2 UN proper shipping name**

· **DOT**

Corrosive liquid, basic, organic, n.o.s. (Acrylic acid, stabilized, α,α -dimethylbenzyl hydroperoxide)

· **ADR**

3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (ACRYLIC ACID, STABILIZED, α,α -dimethylbenzyl hydroperoxide)

· **IMDG, IATA**

CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (ACRYLIC ACID, STABILIZED, α,α -dimethylbenzyl hydroperoxide)

· **14.3 Transport hazard class(es)**

· **DOT**



· **Class**

8 Corrosive substances.

· **Label**

8

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· ADR



· Class 8 (C7) Corrosive substances.
· Label 8

· IMDG, IATA



· Class 8 Corrosive substances.
· Label 8
· 14.4 Packing group
· DOT, ADR, IMDG, IATA III
· 14.5 Environmental hazards:
· Marine pollutant: No
· 14.6 Special precautions for user Warning: Corrosive substances.
· Danger code (Kemler): 80
· EMS Number: F-A,S-B
· Segregation groups Acids
· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

· Transport/Additional information:

· ADR

· Limited quantities (LQ) 5L
· Transport category 3
· Tunnel restriction code E
· UN "Model Regulation": UN3267, CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (ACRYLIC ACID, STABILIZED, α,α - dimethylbenzyl hydroperoxide), 8, III

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):

81-07-2 | 1,2-benzisothiazol-3(2H)-one 1,1-dioxide

79-10-7 | acrylic acid

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80-15-9 | α,α -dimethylbenzyl hydroperoxide· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65 (California):**· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **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:**

None of the ingredients is listed.

· **Carcinogenic Categories**· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **IARC (International Agency for Research on Cancer)**

81-07-2 | 1,2-benzisothiazol-3(2H)-one 1,1-dioxide | 3

79-10-7 | acrylic acid | 3

· **TLV (Threshold Limit Value established by ACGIH)**

79-10-7 | acrylic acid | A4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

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.

· **Canadian Ingredient Disclosure list (limit 1%)**

79-10-7 | acrylic acid

80-15-9 | α,α -dimethylbenzyl hydroperoxide· **Other regulations, limitations and prohibitive regulations**· **Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients is listed.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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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.
 - H242 Heating may cause a fire.
 - H302 Harmful if swallowed.
 - H312 Harmful in contact with skin.
 - H314 Causes severe skin burns and eye damage.
 - H317 May cause an allergic skin reaction.
 - H319 Causes serious eye irritation.
 - H331 Toxic if inhaled.
 - H332 Harmful if inhaled.
 - H373 May cause damage to organs through prolonged or repeated exposure.
 - H400 Very toxic to aquatic life.
 - H411 Toxic to aquatic life with long lasting effects.
-
- R10 Flammable.
 - R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
 - R21/22 Harmful in contact with skin and if swallowed.
 - R23 Toxic by inhalation.
 - R34 Causes burns.
 - R35 Causes severe burns.
 - R36 Irritating to eyes.
 - R43 May cause sensitisation by skin contact.
 - R48/20/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.
 - R50 Very toxic to aquatic organisms.
 - R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 - R7 May cause fire.

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
 Flam. Liq. 3: Flammable liquids, Hazard Category 3
 Org. Perox. EF: Organic Peroxides, Types E, F
 Acute Tox. 4: Acute toxicity, Hazard Category 4
 Acute Tox. 3: Acute toxicity, Hazard Category 3

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Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A
Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

Sources

SDS Prepared by:

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