

1 Identification

- **Product identifier**
- **Trade name:** 40773 Zincweld
- **Article number:** 40773
- **Application of the substance / the mixture** Coating
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
SEM Products Inc.
1685 Overview Drive
Rock Hill, SC 29730
803 207 8225
- **Information department:**
cust_care@semproducts.com : SEM Products, Inc. 1685 Overview Dr. Rock Hill, SC 29730 : phone 1-800-831-1122, M - TH 7am - 4pm EDT
- **Emergency telephone number:** CHEMTREC 1-800-424-9300

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 GHS04 Flame, Gas cylinder

Flam. Aerosol 1 H222 Extremely flammable aerosol.



GHS04 Gas cylinder

Press. Gas H280 Contains gas under pressure; may explode if heated.



GHS08 Health hazard

Muta. 1A H340 May cause genetic defects.

Carc. 1A H350 May cause cancer.

STOT SE 2 H371 May cause damage to organs.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H336 May cause drowsiness or dizziness.

- **Label elements**

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

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· **Hazard pictograms**



GHS02 GHS04 GHS07 GHS08

· **Signal word** *Danger*

· **Hazard-determining components of labeling:**

*Petroleum gases, liquefied, sweetened
acetone
Quartz (SiO₂)
toluene
2-butanone oxime*

· **Hazard statements**

*H222 Extremely flammable aerosol.
H280 Contains gas under pressure; may explode if heated.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H340 May cause genetic defects.
H350 May cause cancer.
H371 May cause damage to organs.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.*

· **Precautionary statements**

*P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Pressurized container: Do not pierce or burn, even after use.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P272 Contaminated work clothing must not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 If on skin: Wash with plenty of water.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P314 Get medical advice/attention if you feel unwell.
P362+P364 Take off contaminated clothing and wash it before reuse.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P321 Specific treatment (see on this label).
P337+P313 If eye irritation persists: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.
P405 Store locked up.
P410+P403 Protect from sunlight. Store in a well-ventilated place.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.*

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- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



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



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

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:**
Mixture: consisting of the following components.
Weight percentages

- **Dangerous components:**

67-64-1	acetone	30-40%
68476-86-8	Petroleum gases, liquefied, sweetened	13-30%
79-20-9	methyl acetate	≥7-<10%
108-88-3	toluene	≥7-<10%
7440-66-6	zinc powder -zinc dust	≥7-<10%
1330-20-7	xylene	5-7%
14808-60-7	Quartz (SiO ₂)	1.5-5%
	EPOXY RESIN	1.5-5%
12001-26-2	Mica	1-1.5%
100-41-4	ethylbenzene	≥0.1-≤1%
143860-04-2	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	≥0.1-<1%
8052-41-3	Stoddard solvent	≥0.1-≤1%

4 First-aid measures

- **Description of first aid measures**
- **After inhalation:**
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.

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- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **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.
- **Protective Action Criteria for Chemicals**

· **PAC-1:**

67-64-1	acetone	200 ppm
79-20-9	methyl acetate	250 ppm
108-88-3	toluene	67 ppm
7440-66-6	zinc powder -zinc dust	6 mg/m
1330-20-7	xylene	130 ppm
14808-60-7	Quartz (SiO ₂)	0.075 mg/m
13463-67-7	titanium dioxide	30 mg/m
12001-26-2	Mica	9 mg/m
123-86-4	n-butyl acetate	5 ppm
100-41-4	ethylbenzene	33 ppm
67762-90-7	FUMED SILICA	120 mg/m
8052-41-3	Stoddard solvent	300 mg/m
6915-15-7	malic acid	4.8 mg/m
96-29-7	2-butanone oxime	30 ppm
1333-86-4	Carbon black	9 mg/m
122-99-6	2-Phenoxyethanol	1.5 ppm
111-76-2	2-butoxyethanol	60 ppm

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149-57-5	2-ethylhexanoic acid	15 mg/m
110-12-3	5-methylhexan-2-one	50 ppm
57-55-6	Methyl glycol	30 mg/m
78-83-1	butanol	150 ppm

PAC-2:

67-64-1	acetone	3200* ppm
79-20-9	methyl acetate	1,700 ppm
108-88-3	toluene	560 ppm
7440-66-6	zinc powder -zinc dust	21 mg/m
1330-20-7	xylene	920* ppm
14808-60-7	Quartz (SiO ₂)	33 mg/m
13463-67-7	titanium dioxide	330 mg/m
12001-26-2	Mica	99 mg/m
123-86-4	n-butyl acetate	200 ppm
100-41-4	ethylbenzene	1100* ppm
67762-90-7	FUMED SILICA	1,300 mg/m
8052-41-3	Stoddard solvent	1,800 mg/m
6915-15-7	malic acid	53 mg/m
96-29-7	2-butanone oxime	56 ppm
1333-86-4	Carbon black	99 mg/m
122-99-6	2-Phenoxyethanol	16 ppm
111-76-2	2-butoxyethanol	120 ppm
149-57-5	2-ethylhexanoic acid	99 mg/m
110-12-3	5-methylhexan-2-one	69 ppm
57-55-6	Methyl glycol	1,300 mg/m
78-83-1	butanol	1,300 ppm

PAC-3:

67-64-1	acetone	5700* ppm
79-20-9	methyl acetate	10000* ppm
108-88-3	toluene	3700* ppm
7440-66-6	zinc powder -zinc dust	120 mg/m
1330-20-7	xylene	2500* ppm
14808-60-7	Quartz (SiO ₂)	200 mg/m
13463-67-7	titanium dioxide	2,000 mg/m
12001-26-2	Mica	590 mg/m
123-86-4	n-butyl acetate	3000* ppm
100-41-4	ethylbenzene	1800* ppm
67762-90-7	FUMED SILICA	7,900 mg/m
8052-41-3	Stoddard solvent	29500** mg/m
6915-15-7	malic acid	320 mg/m
96-29-7	2-butanone oxime	250 ppm

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1333-86-4	Carbon black	590 mg/m
122-99-6	2-Phenoxyethanol	97 ppm
111-76-2	2-butoxyethanol	700 ppm
149-57-5	2-ethylhexanoic acid	590 mg/m
110-12-3	5-methylhexan-2-one	190 ppm
57-55-6	Methyl glycol	7,900 mg/m
78-83-1	butanol	8000* ppm

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
No special measures required.
Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:**
Do not spray on a naked flame or any incandescent material.
Keep ignition sources away - Do not smoke.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

67-64-1 acetone

PEL	Long-term value: 2400 mg/m , 1000 ppm
REL	Long-term value: 590 mg/m , 250 ppm
TLV	Short-term value: 1187 mg/m , 500 ppm
	Long-term value: 594 mg/m , 250 ppm
	BEI

79-20-9 methyl acetate

PEL	Long-term value: 610 mg/m , 200 ppm
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REL Short-term value: 760 mg/m , 250 ppm
Long-term value: 610 mg/m , 200 ppm
TLV Short-term value: 757 mg/m , 250 ppm
Long-term value: 606 mg/m , 200 ppm

108-88-3 toluene

PEL Long-term value: 200 ppm
Ceiling limit value: 300; 500* ppm
*10-min peak per 8-hr shift
REL Short-term value: 560 mg/m , 150 ppm
Long-term value: 375 mg/m , 100 ppm
TLV Long-term value: 75 mg/m , 20 ppm
BEI

1330-20-7 xylene

PEL Long-term value: 435 mg/m , 100 ppm
REL Short-term value: 655 mg/m , 150 ppm
Long-term value: 435 mg/m , 100 ppm
TLV Short-term value: 651 mg/m , 150 ppm
Long-term value: 434 mg/m , 100 ppm
BEI

14808-60-7 Quartz (SiO₂)

PEL see Quartz listing
REL Long-term value: 0.05* mg/m
*respirable dust; See Pocket Guide App. A
TLV Long-term value: 0.025* mg/m
*as respirable fraction

12001-26-2 Mica

PEL Long-term value: 20 mppcf ppm
<1% crystalline silica
REL Long-term value: 3* mg/m
*respirable dust; containing < 1% quartz
TLV Long-term value: 3* mg/m
*as respirable fraction

100-41-4 ethylbenzene

PEL Long-term value: 435 mg/m , 100 ppm
REL Short-term value: 545 mg/m , 125 ppm
Long-term value: 435 mg/m , 100 ppm
TLV Long-term value: 87 mg/m , 20 ppm
BEI

8052-41-3 Stoddard solvent

PEL Long-term value: 2900 mg/m , 500 ppm
REL Long-term value: 350 mg/m
Ceiling limit value: 1800* mg/m
*15-min
TLV Long-term value: 525 mg/m , 100 ppm

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· Ingredients with biological limit values:

67-64-1 acetone

BEI 50 mg/L
Medium: urine
Time: end of shift
Parameter: Acetone (nonspecific)

108-88-3 toluene

BEI 0.02 mg/L
Medium: blood
Time: prior to last shift of workweek
Parameter: Toluene

0.03 mg/L
Medium: urine
Time: end of shift
Parameter: Toluene

0.3 mg/g creatinine
Medium: urine
Time: end of shift
Parameter: o-Cresol with hydrolysis (background)

1330-20-7 xylene

BEI 1.5 g/g creatinine
Medium: urine
Time: end of shift
Parameter: Methylhippuric acids

100-41-4 ethylbenzene

BEI 0.7 g/g creatinine
Medium: urine
Time: end of shift at end of workweek
Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)

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Medium: end-exhaled air
Time: not critical
Parameter: Ethyl benzene (semi-quantitative)

· Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

· Personal protective equipment:

· General protective and hygienic measures:

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Store protective clothing separately.
- Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

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· **Protection of hands:**

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



Protective gloves

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

· **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:**

Safety glasses



Tightly sealed goggles

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· Form:	Liquid
· Color:	Silver grey
· Odor:	Characteristic
· Odor threshold:	Not determined.

· **pH-value:** Not determined.

· **Change in condition**

· Melting point/Melting range:	Undetermined.
· Boiling point/Boiling range:	55.8-56.6 °C

· **Flash point:** <-18 °C

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

· **Ignition temperature:** 455 °C

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** In use, may form flammable/explosive vapour-air mixture.

· **Explosion limits:**

· Lower:	1.9 Vol %
· Upper:	13 Vol %

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· Vapor pressure at 20 °C:	233 hPa
· Density at 20 °C:	0.82609 g/cm
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not applicable.
· 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.
· Solvent content:	
Organic solvents:	79.2 %
VOC content:	39.13 %
	541.8 g/l / 4.52 lb/gl
· Solids content:	20.3 %
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

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

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

108-88-3 toluene

Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	12,124 mg/kg (rabbit)
Inhalative	LC50/4 h	5,320 mg/l (mouse)

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

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· **Carcinogenic categories**

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

108-88-3	toluene	3
1330-20-7	xylene	3
14808-60-7	Quartz (SiO ₂)	1
13463-67-7	titanium dioxide	2B
14807-96-6	Talc	3
100-41-4	ethylbenzene	2B
	BENTONITE	suspected carcinogen <2% 14808-60-7
1333-86-4	Carbon black	2B
111-76-2	2-butoxyethanol	3

· **NTP (National Toxicology Program)**

14808-60-7	Quartz (SiO ₂)	K
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· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

· **Toxicity**

- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.

· **Behavior in environmental systems:**

- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.

· **Additional ecological information:**

· **General notes:**

Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.

· **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**

· **Recommendation:**

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





· **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

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14 Transport information

· UN-Number	UN1950
· DOT, ADR, IMDG, IATA	UN1950
· UN proper shipping name	Aerosols, flammable
· DOT	1950 Aerosols, ENVIRONMENTALLY HAZARDOUS
· ADR	AEROSOLS (3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine)
· IMDG	AEROSOLS, flammable
· IATA	AEROSOLS, flammable
· Transport hazard class(es)	
· DOT	
	
· Class	2.1
· Label	2.1
· ADR	
	
· Class	2 5F Gases
· Label	2.1
· IMDG	
	
· Class	2.1
· Label	2.1
· IATA	
	
· Class	2.1
· Label	2.1
· Packing group	Void
· DOT, ADR, IMDG, IATA	Void
· Environmental hazards:	Product contains environmentally hazardous substances: zinc powder -zinc dust
· Marine pollutant:	No
· Special marking (ADR):	Symbol (fish and tree)
	Symbol (fish and tree)

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<ul style="list-style-type: none"> · Special precautions for user · EMS Number: · Stowage Code 	<p>Warning: Gases F-D,S-U SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.</p>
<ul style="list-style-type: none"> · Segregation Code 	<p>SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.</p>
<ul style="list-style-type: none"> · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	<p>Not applicable.</p>
<ul style="list-style-type: none"> · Transport/Additional information: · DOT · Quantity limitations · Remarks 	<p>On passenger aircraft/rail: 75 kg On cargo aircraft only: 150 kg ORM-D 49CFR 173.150,156,306</p>
<ul style="list-style-type: none"> · ADR · Excepted quantities (EQ) 	<p>Code: E0 Not permitted as Excepted Quantity</p>
<ul style="list-style-type: none"> · IMDG · Limited quantities (LQ) · Excepted quantities (EQ) 	<p>1L Code: E0 Not permitted as Excepted Quantity</p>
<ul style="list-style-type: none"> · UN "Model Regulation": 	<p>UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS</p>

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

· Section 355 (extremely hazardous substances):

None of the ingredient is listed.

· Section 313 (Specific toxic chemical listings):

108-88-3	toluene
7440-66-6	zinc powder -zinc dust
1330-20-7	xylene
14807-96-6	Talc
100-41-4	ethylbenzene
	Acrylic Resin
122-99-6	2-Phenoxyethanol
	COBALT CARBOXYLATE

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111-76-2	2-butoxyethanol
104-68-7	Diethylene glycol monophenyl ether

· TSCA (Toxic Substances Control Act):

67-64-1	acetone
68476-86-8	Petroleum gases, liquefied, sweetened
79-20-9	methyl acetate
108-88-3	toluene
7440-66-6	zinc powder -zinc dust
1330-20-7	xylene
68038-41-5	Modified Rosin Ester
14808-60-7	Quartz (SiO ₂)
13463-67-7	titanium dioxide
123-86-4	n-butyl acetate
14807-96-6	Talc
100-41-4	ethylbenzene
143860-04-2	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine
67762-90-7	FUMED SILICA
8052-41-3	Stoddard solvent
6915-15-7	malic acid
96-29-7	2-butanone oxime
64742-89-8	Solvent naphtha (petroleum), light aliph.
1333-86-4	Carbon black
15956-58-8	Manganese 2-Ethylhexanoate
122-99-6	2-Phenoxyethanol
111-76-2	2-butoxyethanol
149-57-5	2-ethylhexanoic acid
110-73-6	2-ethylaminoethanol
110-12-3	5-methylhexan-2-one
57-55-6	Methyl glycol
78-83-1	butanol
104-68-7	Diethylene glycol monophenyl ether

· TSCA new (21st Century Act) (Substances not listed)

	EPOXY RESIN
12001-26-2	Mica
143860-04-2	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine

· Proposition 65

· Chemicals known to cause cancer:

1330-20-7	xylene
14808-60-7	Quartz (SiO ₂)
13463-67-7	titanium dioxide
100-41-4	ethylbenzene

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1333-86-4	Carbon black
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· **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:**

108-88-3 toluene

· **Carcinogenicity categories**

· **EPA (Environmental Protection Agency)**

67-64-1	acetone	I
108-88-3	toluene	II
7440-66-6	zinc powder -zinc dust	D, I, II
1330-20-7	xylene	I
100-41-4	ethylbenzene	D
111-76-2	2-butoxyethanol	NL

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

67-64-1	acetone	A4
108-88-3	toluene	A4
1330-20-7	xylene	A4
14808-60-7	Quartz (SiO ₂)	A2
13463-67-7	titanium dioxide	A4
14807-96-6	Talc	A4
100-41-4	ethylbenzene	A3
1333-86-4	Carbon black	A4
111-76-2	2-butoxyethanol	A3

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

14808-60-7	Quartz (SiO ₂)
13463-67-7	titanium dioxide
1333-86-4	Carbon black

· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS02 GHS04 GHS07 GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**

Petroleum gases, liquefied, sweetened
acetone
Quartz (SiO₂)
toluene
2-butanone oxime

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- **Hazard statements**

- H222 Extremely flammable aerosol.
- H280 Contains gas under pressure; may explode if heated.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H317 May cause an allergic skin reaction.
- H340 May cause genetic defects.
- H350 May cause cancer.
- H371 May cause damage to organs.
- H336 May cause drowsiness or dizziness.
- H373 May cause damage to organs through prolonged or repeated exposure.

- **Precautionary statements**

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P211 Do not spray on an open flame or other ignition source.
- P251 Pressurized container: Do not pierce or burn, even after use.
- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P272 Contaminated work clothing must not be allowed out of the workplace.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P302+P352 If on skin: Wash with plenty of water.
- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P314 Get medical advice/attention if you feel unwell.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P321 Specific treatment (see on this label).
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P363 Wash contaminated clothing before reuse.
- P405 Store locked up.
- P410+P403 Protect from sunlight. Store in a well-ventilated place.
- P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **National regulations:**

- **Additional classification according to Decree on Hazardous Materials:**

Carcinogenic hazardous material group III (dangerous).

- **Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

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

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.

- **Department issuing SDS:** Environment protection department.

- **Contact:** Rita Joiner (rjoiner@semproducts.com)

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USA



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· **Date of preparation / last revision** 03/14/2018 / 8

· **Abbreviations and acronyms:**

ICAO: International Civil Aviation Organisation

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

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

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)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Aerosol 1: Aerosols – Category 1

Press. Gas: Gases under pressure – Compressed gas

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Skin Sens. 1: Skin sensitisation – Category 1

Muta. 1A: Germ cell mutagenicity – Category 1A

Carc. 1A: Carcinogenicity – Category 1A

STOT SE 2: Specific target organ toxicity (single exposure) – Category 2

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

· *** Data compared to the previous version altered.**