

## 1 Identification

- **Product identifier**
- **Trade name:** 40786 Brushable Copperweld Weld Thru Primer
- **Article number:** 40786
- **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 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS08 Health hazard

Muta. 1B H340 May cause genetic defects.

Carc. 1B H350 May cause cancer.

Repr. 1 H360 May damage fertility or the unborn child.

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

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



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 GHS07 GHS08

· **Signal word** *Danger*

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

toluene  
ethylbenzene  
n-butyl acetate  
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine  
2-butanone oxime

· **Hazard statements**

H225 Highly flammable liquid and vapor.  
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.  
H360 May damage fertility or the unborn child.  
H336 May cause drowsiness or dizziness.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H304 May be fatal if swallowed and enters airways.

· **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.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ventilating/lighting/equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P260 Do not breathe dust/fume/gas/mist/vapors/spray.  
P264 Wash thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
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.  
P312 Call a POISON CENTER/doctor if you feel unwell.  
P314 Get medical advice/attention if you feel unwell.  
P321 Specific treatment (see on this label).  
P331 Do NOT induce vomiting.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.

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- P363 Wash contaminated clothing before reuse.  
 P370+P378 In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
 P403+P235 Store in a well-ventilated place. Keep cool.  
 P405 Store locked up.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

## · Classification system:

## · NFPA ratings (scale 0 - 4)



Health = 1

Fire = 3

Reactivity = 0

## · HMIS-ratings (scale 0 - 4)



Health = \*1

Fire = 3

Reactivity = 0

## · 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:

123-86-4	n-butyl acetate	13 - 30%
108-88-3	toluene	13 - 30%
7440-50-8	copper	13 - 30%
	EPOXY RESIN	10 - 13%
7440-66-6	zinc powder -zinc dust	7 - 10%
1330-20-7	xylene	7 - 10%
12001-26-2	Mica	1.5 - 5%
100-41-4	ethylbenzene	1.5 - 5%
	BENTONITE	1-1.5%
143860-04-2	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	1-1.5%
90218-35-2	Dodecylbenzenesulfonic acid with 2-propanamine	1-1.5%
96-29-7	2-butanone oxime	≤1%
64742-89-8	Solvent naphtha (petroleum), light aliph.	≤1%
8052-41-3	Stoddard solvent	≤1%

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#### 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.
- **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:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **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:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
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:**

123-86-4	n-butyl acetate	5 ppm
108-88-3	toluene	67 ppm
7440-50-8	copper	3 mg/m <sup>3</sup>
7440-66-6	zinc powder -zinc dust	6 mg/m <sup>3</sup>
1330-20-7	xylene	130 ppm
12001-26-2	Mica	9 mg/m <sup>3</sup>
100-41-4	ethylbenzene	33 ppm

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67-64-1	acetone	200 ppm
79-20-9	methyl acetate	250 ppm
96-29-7	2-butanone oxime	30 ppm
67762-90-7	FUMED SILICA	120 mg/m3
8052-41-3	Stoddard solvent	300 mg/m3
110-12-3	5-methylhexan-2-one	50 ppm
122-99-6	2-Phenoxyethanol	1.5 ppm
149-57-5	2-ethylhexanoic acid	15 mg/m3
78-83-1	butanol	150 ppm
57-55-6	Methyl glycol	30 mg/m3

**· PAC-2:**

123-86-4	n-butyl acetate	200 ppm
108-88-3	toluene	560 ppm
7440-50-8	copper	33 mg/m3
7440-66-6	zinc powder -zinc dust	21 mg/m3
1330-20-7	xylene	920* ppm
12001-26-2	Mica	99 mg/m3
100-41-4	ethylbenzene	1100* ppm
67-64-1	acetone	3200* ppm
79-20-9	methyl acetate	1,700 ppm
96-29-7	2-butanone oxime	56 ppm
67762-90-7	FUMED SILICA	1,300 mg/m3
8052-41-3	Stoddard solvent	1,800 mg/m3
110-12-3	5-methylhexan-2-one	69 ppm
122-99-6	2-Phenoxyethanol	16 ppm
149-57-5	2-ethylhexanoic acid	99 mg/m3
78-83-1	butanol	1,300 ppm
57-55-6	Methyl glycol	1,300 mg/m3

**· PAC-3:**

123-86-4	n-butyl acetate	3000* ppm
108-88-3	toluene	3700* ppm
7440-50-8	copper	200 mg/m3
7440-66-6	zinc powder -zinc dust	120 mg/m3
1330-20-7	xylene	2500* ppm
12001-26-2	Mica	590 mg/m3
100-41-4	ethylbenzene	1800* ppm
67-64-1	acetone	5700* ppm
79-20-9	methyl acetate	10000* ppm
96-29-7	2-butanone oxime	250 ppm
67762-90-7	FUMED SILICA	7,900 mg/m3
8052-41-3	Stoddard solvent	29500** mg/m3

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110-12-3	5-methylhexan-2-one	190 ppm
122-99-6	2-Phenoxyethanol	97 ppm
149-57-5	2-ethylhexanoic acid	590 mg/m <sup>3</sup>
78-83-1	butanol	8000* ppm
57-55-6	Methyl glycol	7,900 mg/m <sup>3</sup>

## 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.  
Protect against electrostatic charges.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep receptacle tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.
- **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.

<b>123-86-4 n-butyl acetate</b>	
PEL	Long-term value: 710 mg/m <sup>3</sup> , 150 ppm
REL	Long-term value: 950 mg/m <sup>3</sup> , 200 ppm
TLV	Short-term value: 712 mg/m <sup>3</sup> , 150 ppm Long-term value: 238 mg/m <sup>3</sup> , 50 ppm
<b>108-88-3 toluene</b>	
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 <sup>3</sup> , 150 ppm Long-term value: 375 mg/m <sup>3</sup> , 100 ppm
TLV	Long-term value: 75 mg/m <sup>3</sup> , 20 ppm BEI

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**7440-50-8 copper**

PEL	Long-term value: 1 * 0.1 ** mg/m <sup>3</sup> as Cu *dusts and mists **fume
REL	Long-term value: 1 * 0.1 ** mg/m <sup>3</sup> as Cu *dusts and mists **fume
TLV	Long-term value: 1 * 0.2 ** mg/m <sup>3</sup> *dusts and mists; **fume; as Cu

**1330-20-7 xylene**

PEL	Long-term value: 435 mg/m <sup>3</sup> , 100 ppm
REL	Short-term value: 655 mg/m <sup>3</sup> , 150 ppm Long-term value: 435 mg/m <sup>3</sup> , 100 ppm
TLV	Short-term value: 651 mg/m <sup>3</sup> , 150 ppm Long-term value: 434 mg/m <sup>3</sup> , 100 ppm BEI

**12001-26-2 Mica**

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

**100-41-4 ethylbenzene**

PEL	Long-term value: 435 mg/m <sup>3</sup> , 100 ppm
REL	Short-term value: 545 mg/m <sup>3</sup> , 125 ppm Long-term value: 435 mg/m <sup>3</sup> , 100 ppm
TLV	Long-term value: 87 mg/m <sup>3</sup> , 20 ppm BEI

**96-29-7 2-butanone oxime**

WEEL	Long-term value: 10 ppm
DSEN	

**8052-41-3 Stoddard solvent**

PEL	Long-term value: 2900 mg/m <sup>3</sup> , 500 ppm
REL	Long-term value: 350 mg/m <sup>3</sup> Ceiling limit value: 1800 * mg/m <sup>3</sup> *15-min
TLV	Long-term value: 525 mg/m <sup>3</sup> , 100 ppm

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**· Ingredients with biological limit values:**

**108-88-3 toluene**

<b>BEI</b>	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**

<b>BEI</b>	1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids
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**100-41-4 ethylbenzene**

<b>BEI</b>	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)
	- 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.

**· Protection of hands:**

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

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*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:**



*Tightly sealed goggles*

## 9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

<b>Form:</b>	Liquid
<b>Color:</b>	Copper colored
<b>Odor:</b>	Characteristic
<b>Odor threshold:</b>	Not determined.

· **pH-value:** Not determined.

· **Change in condition**

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	110 °C

· **Flash point:** 7 °C

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

· **Ignition temperature:** 370 °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:**

<b>Lower:</b>	1.2 Vol %
<b>Upper:</b>	7.5 Vol %

· **Vapor pressure at 20 °C:** 29 hPa

· **Density at 20 °C:** 1.20549 g/cm<sup>3</sup>

· **Relative density** Not determined.

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- |                                                   |                                            |
|---------------------------------------------------|--------------------------------------------|
| · <b>Vapor density</b>                            | Not determined.                            |
| · <b>Evaporation rate</b>                         | Not determined.                            |
| · <b>Solubility in / Miscibility with Water:</b>  | Not miscible or difficult to mix.          |
| · <b>Partition coefficient (n-octanol/water):</b> | Not determined.                            |
| · <b>Viscosity:</b>                               |                                            |
| <b>Dynamic:</b>                                   | Not determined.                            |
| <b>Kinematic:</b>                                 | Not determined.                            |
| · <b>Solvent content:</b>                         |                                            |
| <b>Organic solvents:</b>                          | 48.9 %                                     |
| <b>VOC content:</b>                               | 47.7 %                                     |
|                                                   | 585.2 g/l / 4.88 lb/gl                     |
| · <b>Solids content:</b>                          | 49.5 %                                     |
| · <b>Other information</b>                        | 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	5000 mg/kg (rat)
Dermal	LD50	12124 mg/kg (rabbit)
Inhalative	LC50/4 h	5320 mg/l (mouse)

#### 1330-20-7 xylene

Oral	LD50	4300 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)

- **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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The product can cause inheritable damage.

· **Carcinogenic categories**

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

108-88-3	toluene	3
1330-20-7	xylene	3
100-41-4	ethylbenzene	2B
	BENTONITE	suspected carcinogen <2% 14808-60-7

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **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.

**14 Transport information**

· **UN-Number**

· **DOT, ADR, IMDG, IATA** UN1263

· **UN proper shipping name**

· **DOT** Paint

· **ADR** 1263 Paint, ENVIRONMENTALLY HAZARDOUS, special provision 640D

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· <b>IMDG</b>	PAINT (copper, 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine)
· <b>IATA</b>	PAINT

· **Transport hazard class(es)**

· **DOT**



· <b>Class</b>	3 Flammable liquids
· <b>Label</b>	3

· **ADR, IMDG**



· <b>Class</b>	3 Flammable liquids
· <b>Label</b>	3

· **IATA**



· <b>Class</b>	3 Flammable liquids
· <b>Label</b>	3

· **Packing group**

· <b>DOT, ADR, IMDG, IATA</b>	II
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· <b>Environmental hazards:</b>	Product contains environmentally hazardous substances: zinc powder -zinc dust
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· <b>Marine pollutant:</b>	Yes
	Symbol (fish and tree)

· <b>Special marking (ADR):</b>	Symbol (fish and tree)
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· <b>Special precautions for user</b>	Warning: Flammable liquids
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· <b>EMS Number:</b>	F-E, <u>S-E</u>
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· <b>Stowage Category</b>	B
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· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
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· **Transport/Additional information:**

· **DOT**

· <b>Quantity limitations</b>	On passenger aircraft/rail: 5 L
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On cargo aircraft only: 60 L

· <b>Remarks</b>	Special marking with the symbol (fish and tree).
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· <b>ADR</b>	
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>UN "Model Regulation":</b>	UN 1263 PAINT, SPECIAL PROVISION 640D, 3, II, ENVIRONMENTALLY HAZARDOUS

### 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
7440-50-8	copper
7440-66-6	zinc powder -zinc dust
1330-20-7	xylene
100-41-4	ethylbenzene
7429-90-5	aluminium
122-99-6	2-Phenoxyethanol
	COBALT CARBOXYLATE
104-68-7	Diethylene glycol monophenyl ether

· **TSCA (Toxic Substances Control Act):**

123-86-4	n-butyl acetate
108-88-3	toluene
7440-50-8	copper
7440-66-6	zinc powder -zinc dust
1330-20-7	xylene
100-41-4	ethylbenzene
143860-04-2	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine
90218-35-2	Dodecylbenzenesulfonic acid with 2-propanamine
67-64-1	acetone
79-20-9	methyl acetate
96-29-7	2-butanone oxime
67762-90-7	FUMED SILICA
64742-89-8	Solvent naphtha (petroleum), light aliph.

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8052-41-3	Stoddard solvent
67701-03-5	FATTY ACID
25265-78-5	Tetrapropylene-benzene
110-12-3	5-methylhexan-2-one
110-73-6	2-ethylaminoethanol
7429-90-5	aluminium
122-99-6	2-Phenoxyethanol
15956-58-8	Manganese 2-Ethylhexanoate
149-57-5	2-ethylhexanoic acid
78-83-1	butanol
57-55-6	Methyl glycol
104-68-7	Diethylene glycol monophenyl ether
7732-18-5	water

· **Proposition 65**

· **Chemicals known to cause cancer:**

1330-20-7	xylene
100-41-4	ethylbenzene

· **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
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· **Carcinogen categories**

· **EPA (Environmental Protection Agency)**

108-88-3	toluene	II
7440-50-8	copper	D
7440-66-6	zinc powder -zinc dust	D, I, II
1330-20-7	xylene	I
100-41-4	ethylbenzene	D
67-64-1	acetone	I

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

108-88-3	toluene	A4
1330-20-7	xylene	A4
100-41-4	ethylbenzene	A3
67-64-1	acetone	A4
7429-90-5	aluminium	A4

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

None of the ingredients is listed.

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

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· **Hazard pictograms**



GHS02 GHS07 GHS08

· **Signal word** *Danger*

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

toluene  
ethylbenzene  
n-butyl acetate  
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine  
2-butanone oxime

· **Hazard statements**

H225 Highly flammable liquid and vapor.  
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.  
H360 May damage fertility or the unborn child.  
H336 May cause drowsiness or dizziness.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H304 May be fatal if swallowed and enters airways.

· **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.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ventilating/lighting/equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P260 Do not breathe dust/fume/gas/mist/vapors/spray.  
P264 Wash thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
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.  
P312 Call a POISON CENTER/doctor if you feel unwell.  
P314 Get medical advice/attention if you feel unwell.  
P321 Specific treatment (see on this label).  
P331 Do NOT induce vomiting.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.

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- P363 Wash contaminated clothing before reuse.
- P370+P378 In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.
- 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:** Steve Gaver (sgaver@semproducts.com)
- **Date of preparation / last revision** 06/28/2017 / 15
- **Abbreviations and acronyms:**  
 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
 ICAO: International Civil Aviation Organisation  
 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. Liq. 2: Flammable liquids – Category 2  
 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. 1B: Germ cell mutagenicity – Category 1B  
 Carc. 1B: Carcinogenicity – Category 1B  
 Repr. 1: Reproductive toxicity – Category 1  
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

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Reviewed on 06/28/2017

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Asp. Tox. 1: Aspiration hazard – Category 1

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

USA