

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

· **Product details**

· **Trade name:** 39783 Weld-Thru Primer

· **Article number:** 39783

· **Application of the substance / the preparation** coating

· **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 information:** 24 HR EMERGENCY CHEMTREC 1-800-424-9300

2 Composition/information on ingredients

· **Chemical characterization**

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

· **Dangerous components:**

67-64-1	acetone  H225;  H319; H336	13 - 30%
68476-86-8	Petroleum gases, liquefied, sweetened  H220;  H280;  H340; H350	13 - 30%
79-20-9	methyl acetate  H225;  H319; H336	7 - 10%
108-88-3	toluene  H225;  H361; H373; H304;  H315; H336	7 - 10%
7440-50-8	copper	7 - 10%
1330-20-7	xylene  H226;  H312; H332; H315	1.5 - 5%
	EPOXY RESIN  H315; H319; H335	1.5 - 5%
12001-26-2	Mica  H315; H319; H335	1-1.5%
123-86-4	n-butyl acetate  H226;  H336	1-1.5%
143860-04-2	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine  H360;  H314;  H400; H410	≤1%

3 Hazards identification

· **Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**



GHS02 Flame

H222 Extremely flammable aerosol.

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GHS08 Health hazard

- H340 May cause genetic defects.
- H350 May cause cancer.
- H360 May damage fertility or the unborn child.



GHS09 Environment

- H411 Toxic to aquatic life with long lasting effects.



GHS07

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H333 May be harmful if inhaled.

· **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Toxic

- May cause cancer. May cause heritable genetic damage.



Harmful

- Possible risk of harm to the unborn child.



Irritant

- Irritating to eyes.



Extremely flammable

- Extremely flammable.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Vapours may cause drowsiness and dizziness.

· **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of international guidelines.

Warning! Pressurized container.

Has a narcotizing effect.

· **Classification system:**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

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- **Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
- **Hazard pictograms**



GHS02 GHS07 GHS08 GHS09

- **Signal word** *Danger*
- **Hazard-determining components of labelling:**
*Petroleum gases, liquefied, sweetened
toluene
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine
2-butanone oxime*

- **Hazard statements**
*Extremely flammable aerosol.
May be harmful if inhaled.
Causes skin irritation.
Causes serious eye irritation.
May cause genetic defects.
May cause cancer.
May damage fertility or the unborn child.
May cause drowsiness or dizziness.
Toxic to aquatic life with long lasting effects.*
- **Precautionary statements**
*Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Pressurized container: Do not pierce or burn, even after use.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
Store locked up.
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
Dispose of contents/container in accordance with local/regional/national/international regulations.*

- **Labelling according to EU guidelines:**
The product has been classified and marked in accordance with directives on hazardous materials.

- **Code letter and hazard designation of product:**



Toxic
Extremely flammable

- **Hazard-determining components of labelling:**
*Petroleum gases, liquefied, sweetened
toluene*
- **Risk phrases:**
*May cause cancer.
May cause heritable genetic damage.
Extremely flammable.
Irritating to eyes.
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*

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Possible risk of harm to the unborn child.
Vapours may cause drowsiness and dizziness.

· **Safety phrases:**

Avoid exposure - obtain special instructions before use.
Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
Wear suitable protective clothing and gloves.
In case of insufficient ventilation, wear suitable respiratory equipment.
In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Avoid release to the environment. Refer to special instructions/safety data sheets.

· **Special labelling of certain preparations:**

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.
47.0 % by mass of the contents are flammable

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 2
Fire = 4
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = 2
Fire = 4
Reactivity = 0

4 First aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **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.

5 Firefighting measures

- **Suitable extinguishing agents:** CO₂, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:**
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

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Do not flush with water or aqueous cleansing agents

7 Handling and storage

- **Handling:**
- **Information for safe handling:**
No special measures required.
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
- **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.
Keep respiratory protective device available.
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.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool location.
Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:** Store away from oxidizing agents.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Do not gas tight seal receptacle.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

- **Components with limit values that require monitoring at the workplace:**

67-64-1 acetone

PEL ()	2400 mg/m ³ , 1000 ppm
REL ()	590 mg/m ³ , 250 ppm
TLV ()	Short-term value: 1782 mg/m ³ , 750 ppm Long-term value: 1188 mg/m ³ , 500 ppm BEI

79-20-9 methyl acetate

PEL ()	610 mg/m ³ , 200 ppm
REL ()	Short-term value: 760 mg/m ³ , 250 ppm Long-term value: 610 mg/m ³ , 200 ppm
TLV ()	Short-term value: 757 mg/m ³ , 250 ppm Long-term value: 606 mg/m ³ , 200 ppm

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108-88-3 toluene

PEL () Short-term value: C 300; 500* ppm
Long-term value: 200 ppm
*10-min peak per 8-hr shift
REL () Short-term value: 560 mg/m³, 150 ppm
Long-term value: 375 mg/m³, 100 ppm
TLV () 75 mg/m³, 20 ppm
NIC-BEI

7440-50-8 copper

PEL () 1* 0.1** mg/m³
as Cu *dusts and mists **fume
REL () 1* 0.1 R** mg/m³
as Cu *dusts and mists **fume
TLV () Short-term value: 0.1** mg/m³
Long-term value: 1* 0.2** mg/m³
*dusts and mists; **fume; as Cu

1330-20-7 xylene

PEL () 435 mg/m³, 100 ppm
REL () Short-term value: 655 mg/m³, 150 ppm
Long-term value: 435 mg/m³, 100 ppm
TLV () Short-term value: 651 mg/m³, 150 ppm
Long-term value: 434 mg/m³, 100 ppm
BEI

12001-26-2 Mica

PEL () 20 mppcf ppm
<1% crystalline silica
REL () 3* mg/m³
*respirable dust; containing < 1% quartz
TLV () 3* mg/m³
*as respirable fraction

123-86-4 n-butyl acetate

PEL () 710 mg/m³, 150 ppm
REL () Short-term value: 950 mg/m³, 200 ppm
Long-term value: 710 mg/m³, 150 ppm
TLV () Short-term value: 950 mg/m³, 200 ppm
Long-term value: 713 mg/m³, 150 ppm

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

· **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.
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:**

Protective gloves

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

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

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

· **Material of gloves**

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

· **Penetration time of glove material**

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

· **Eye protection:**

Tightly sealed goggles

9 Physical and chemical properties

· **General Information**· **Appearance:**

Form:	Aerosol
Color:	According to product specification
Odor:	Characteristic

· **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	< -17°C (< 1°F)

· **Flash point:** < -17°C (< 1°F)

· **Ignition temperature:** 455°C (851°F)

· **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:	16.0 Vol %

· **Vapor pressure at 20°C (68°F):** 233 hPa (175 mm Hg)

· **Density at 20°C (68°F):** 0.87 g/cm³ (7.26 lbs/gal)

· **Solubility in / Miscibility with**

Water: Not miscible or difficult to mix.

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· Solvent content:	
Organic solvents:	76.7 %
VOC content:	39.0 %
	338.6 g/l / 2.83 lb/gl
Solids content:	23.2 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Materials to be avoided:**
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous products of decomposition:**
Nitrogen oxides
Hydrocarbons
Carbon monoxide and carbon dioxide

11 Toxicological information

- **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)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant
Carcinogenic.
The product can cause inheritable damage.

12 Ecological information

- **Ecotoxicical effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**
Water hazard class 3 (Self-assessment): extremely hazardous for water
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.
Harmful to aquatic organisms

USA

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13 Disposal considerations

- **Product:**
- **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

· **DOT regulations:**



- **Hazard class:** 2.1
- **Identification number:** UN1950
- **Packing group:** -
- **Proper shipping name (technical name):** AEROSOLS, flammable
- **Label:** 2.1
- **Remarks:** ORM-D 49CFR 173.150,156,or306
Special marking with the symbol (fish and tree).

· **Land transport TDG (Canada) and ADR/RID (Europe):**



- **Hazard class:** 2 - 5F Gases
- **UN-Number:** 1950
- **Packaging group:** -
- **Label:** 2.1
- **Special marking:** Symbol (fish and tree)
- **Description of goods:** 1950 AEROSOLS

· **Maritime transport IMDG:**



- **IMDG Class:** 2.1
- **UN Number:** 1950
- **Label:** 2.1
- **Packaging group:** -
- **EMS Number:** F-D,S-U
- **Marine pollutant:** No

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· **Propper shipping name:** AEROSOLS· **Air transport ICAO-TI and IATA-DGR:**

· **ICAO/IATA Class:** 2.1
 · **UN/ID Number:** 1950
 · **Label:** 2.1
 · **Packaging group:** -
 · **Propper shipping name:** AEROSOLS, flammable

· **UN "Model Regulation":** UN1950, AEROSOLS, 2.1· **Transport/Additional information:** Not dangerous according to the above specifications.

15 Regulatory information

· **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
7440-50-8	copper
1330-20-7	xylene
100-41-4	ethylbenzene
7429-90-5	aluminium
	COBALT CARBOXYLATE

· **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
7440-50-8	copper
1330-20-7	xylene
123-86-4	n-butyl acetate
100-41-4	ethylbenzene
7429-90-5	aluminium
143860-04-2	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine
64742-88-7	Solvent naphtha (petroleum), medium aliph.
67701-03-5	FATTY ACID
96-29-7	2-butanone oxime

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67762-90-7	FUMED SILICA
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· **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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· **Cancerogenity categories**

· **EPA (Environmental Protection Agency)**

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

· **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.

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

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

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

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **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.

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· **Department issuing MSDS:** Environment protection department.

· **Contact:** Steve Gaver

· **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)

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

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

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