**Safety Data Sheet**
**according to HPR, Schedule 1**

Printing date 03/21/2018 Reviewed on 01/30/2018

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## 1 Identification

· **Product identifier**

· **Trade name: 40793 Copperweld Weld Thru Primer**

· **Article number:** 40793
· **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

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## 2 Hazard identification

· **Classification of the substance or mixture**

GHS02 GHS04 Flame, Gas cylinder

Flammable Aerosols - Category 1 — H222 Extremely flammable aerosol.

GHS04 Gas cylinder

Gases Under Pressure - Compressed Gas — H280 Contains gas under pressure; may explode if heated.

GHS08 Health hazard

Carcinogenicity – Category 2 — H351 Suspected of causing cancer.

Specific Target Organ Toxicity - Repeated Exposure - Category 2 — H373 May cause damage to organs through prolonged or repeated exposure.

GHS07

Skin Irritation - Category 2 — H315 Causes skin irritation.

Eye Irritation - Category 2A — H319 Causes serious eye irritation.

Specific Target Organ Toxicity - Single Exposure - Category 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:**
acetone
toluene
methyl acetate
ethylbenzene

· **Hazard statements**
H222 Extremely flammable aerosol.
H280 Contains gas under pressure; may explode if heated.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H351 Suspected of causing cancer.
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, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P211 | Do not spray on an open flame or other ignition source. |
| P251 | Do not pierce or burn, even after use. |
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray. |
| P264 | Wash thoroughly after handling. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P302+P352 | If on skin: Wash with plenty of water. |
| 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. |
| P321 | Specific treatment (see on this label). |
| P314 | Get medical advice/attention if you feel unwell. |
| P362+P364 | Take off contaminated clothing and wash it before reuse. |
| P332+P313 | If skin irritation occurs: Get medical advice/attention. |
| P337+P313 | If eye irritation persists: Get medical advice/attention. |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |
| 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)**


Health = 2
Fire = 4
Reactivity = 3

· **HMIS-ratings (scale 0 - 4)**


Health = *2
Fire = 4
Reactivity = 3

* 
## 3 Composition/Information on ingredients

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

| · **Dangerous components:** | | |
|---|---|---|
| 67-64-1 | acetone | 10-30% w/w |
| 68476-86-8 | Petroleum gases, liquefied, sweetened | 10-30% w/w |
| 79-20-9 | methyl acetate | ≥10-≤13% w/w |
| 123-86-4 | n-butyl acetate | 3-7% w/w |
| 108-88-3 | toluene | 3-7% w/w |
| 7440-50-8 | copper | 1-5% w/w |
| | EPOXY RESIN | 1-5% w/w |
| 7440-66-6 | zinc powder -zinc dust | 1-5% w/w |
| 1330-20-7 | xylene | 1-5% w/w |
| 12001-26-2 | Mica | 0.5-1.5% w/w |
| 100-41-4 | ethylbenzene | ≥0.1-≤1% w/w |
| 143860-04-2 | 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine | ≥0.1-<1% w/w |

* 
## 4 First aid measures

· **Description of first aid measures**
· **After inhalation:** 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.



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## 5 Firefighting 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.

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## 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.

* 
## 7 Handling and storage

· **Handling:**
· **Precautions for safe handling** No special measures required.
· **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.

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· **Control parameters**

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

| | |
|---|---|
| **67-64-1 acetone** | |
| EL | Short-term value: 500 ppm<br>Long-term value: 250 ppm |
| EV | Short-term value: 750 ppm<br>Long-term value: 500 ppm |
| **79-20-9 methyl acetate** | |
| EL | Short-term value: 250 ppm<br>Long-term value: 200 ppm |
| EV | Short-term value: 755 mg/m³, 250 ppm<br>Long-term value: 605 mg/m³, 200 ppm |
| **123-86-4 n-butyl acetate** | |
| EL | Long-term value: 20 ppm |
| EV | Short-term value: 950 mg/m³, 200 ppm<br>Long-term value: 710 mg/m³, 150 ppm |
| **108-88-3 toluene** | |
| EL | Long-term value: 20 ppm<br>R |
| EV | Long-term value: 20 ppm |
| **7440-50-8 copper** | |
| EL | Long-term value: 1* 0.2** mg/m³<br>*dusts and mists; **fume, as Cu |
| EV | Long-term value: 0.2* 1** mg/m³<br>as copper, *fume;**dust and mists |
| **1330-20-7 xylene** | |
| EL | Short-term value: 150 ppm<br>Long-term value: 100 ppm |
| EV | Short-term value: 650 mg/m³, 150 ppm<br>Long-term value: 435 mg/m³, 100 ppm |
| **12001-26-2 Mica** | |
| EL | Long-term value: 3 mg/m³ |
| EV | Long-term value: 3(D) mg/m³<br>respirable |
| **100-41-4 ethylbenzene** | |
| EL | Long-term value: 20 ppm<br>IARC 2B |
| EV | Short-term value: 540 mg/m³, 125 ppm<br>Long-term value: 435 mg/m³, 100 ppm |

· **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.

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*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.*
*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 trough 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:** | *Aerosol* |
| **Color:** | *Copper colored* |
| · **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:** | *-103 °C* |
| · **Flammability (solid, gaseous):** | *Not applicable.* |
| · **Ignition temperature:** | *370 °C* |
| · **Decomposition temperature:** | *Not determined.* |

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**Trade name: 40793 Copperweld Weld Thru Primer**

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| | |
|---|---|
| · **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 Vol % |
| · **Vapor pressure at 20 °C:** | 233 hPa |
| · **Density at 20 °C:** | 0.80188 g/cm³ |
| · **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:** | 82.1 % |
| **Water:** | 0.0 % |
| **VOC content:** | 41.69 %<br>550.8 g/l / 4.60 lb/gl |
| **Solids content:** | 17.3 % |
| · **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) |

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· ***Primary irritant effect:***
· ***on the skin:*** *Irritant to skin and mucous membranes.*
· ***on the eye:*** *Irritating effect.*
· ***Sensitization:*** *No sensitizing effects known.*
· ***Additional toxicological information:***
*The product shows the following dangers according to internally approved calculation methods for preparations:*
*Irritant*

· ***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.* |

* 
## *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, TDG, IMDG, IATA*** *UN1950*

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| | |
|---|---|
| · **UN proper shipping name** | |
| · **DOT** | Aerosols, flammable |
| · **TDG** | 1950 Aerosols, ENVIRONMENTALLY HAZARDOUS |
| · **IMDG** | AEROSOLS (copper, 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine) |
| · **IATA** | AEROSOLS, flammable |

· **Transport hazard class(es)**

· **DOT**

| | |
|---|---|
| · **Class** | 2.1 |
| · **Label** | 2.1 |

· **TDG (Transport dangerous goods):**

| | |
|---|---|
| · **Class** | 2 5F Gases |
| · **Label** | 2.1 |

· **IMDG**

| | |
|---|---|
| · **Class** | 2.1 |
| · **Label** | 2.1 |

· **IATA**

| | |
|---|---|
| · **Class** | 2.1 |
| · **Label** | 2.1 |
| · **Packing group** | |
| · **DOT, TDG, IMDG, IATA** | Void |
| · **Environmental hazards:** | Product contains environmentally hazardous substances: zinc powder -zinc dust |
| · **Marine pollutant:** | Yes<br>Symbol (fish and tree) |
| · **Special marking (TDG):** | Symbol (fish and tree) |
| · **Special precautions for user** | Warning: Gases |
| · **EMS Number:** | F-D,S-U |
| · **Stowage Code** | SW1 Protected from sources of heat.<br>SW22 For AEROSOLS with a maximum capacity of 1 litre: |

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| | |
|---|---|
| · | Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters. |
| · **Segregation Code** | 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. |
| · **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** | Not applicable. |
| · **Transport/Additional information:** | |
| · **DOT** | |
| · **Quantity limitations** | On passenger aircraft/rail: 75 kg<br>On cargo aircraft only: 150 kg |
| · **Remarks** | Special marking with the symbol (fish and tree). |
| · **TDG** | |
| · **Excepted quantities (EQ)** | Code: E0<br>Not permitted as Excepted Quantity |
| · **IMDG** | |
| · **Limited quantities (LQ)** | 1L |
| · **Excepted quantities (EQ)** | Code: E0<br>Not permitted as Excepted Quantity |
| · **UN "Model Regulation":** | UN 1950 AEROSOLS, 2.1, 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):**

| | |
|---|---|
| 67-64-1 | acetone |

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| | |
|---|---|
| 79-20-9 | methyl acetate |
| 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 |
| 96-29-7 | 2-butanone oxime |
| 67762-90-7 | FUMED SILICA |
| 64742-89-8 | Solvent naphtha (petroleum), light aliph. |
| 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 |

· **Canadian substance listings:**

| · **Canadian Domestic Substances List (DSL)** | |
|---|---|
| 67-64-1 | acetone |
| 68476-86-8 | Petroleum gases, liquefied, sweetened |
| 79-20-9 | methyl acetate |
| 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 |
| 12001-26-2 | Mica |
| 100-41-4 | ethylbenzene |
| 90218-35-2 | Dodecylbenzenesulfonic acid with 2-propanamine |
| 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 |
| 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 |

· **Canadian Ingredient Disclosure list (limit 0.1%)**

| | |
|---|---|
| 100-41-4 | ethylbenzene |

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

| | |
|---|---|
| 67-64-1 | acetone |
| 79-20-9 | methyl acetate |
| 123-86-4 | n-butyl acetate |
| 108-88-3 | toluene |
| 7440-50-8 | copper |
| 12001-26-2 | Mica |

· **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:**
acetone
toluene
methyl acetate
ethylbenzene
· **Hazard statements**
H222 Extremely flammable aerosol.
H280 Contains gas under pressure; may explode if heated.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H351 Suspected of causing cancer.
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.

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| | |
|---|---|
| P202 | Do not handle until all safety precautions have been read and understood. |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P211 | Do not spray on an open flame or other ignition source. |
| P251 | Do not pierce or burn, even after use. |
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray. |
| P264 | Wash thoroughly after handling. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P302+P352 | If on skin: Wash with plenty of water. |
| 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. |
| P321 | Specific treatment (see on this label). |
| P314 | Get medical advice/attention if you feel unwell. |
| P362+P364 | Take off contaminated clothing and wash it before reuse. |
| P332+P313 | If skin irritation occurs: Get medical advice/attention. |
| P337+P313 | If eye irritation persists: Get medical advice/attention. |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |
| 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. |

· **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.

· **Department issuing SDS:** Environment protection department.
· **Contact:** Rita Joiner (rjoiner@semproducts.com)
· **Date of preparation / last revision** 03/21/2018 / 15
· **Abbreviations and acronyms:**
ICAO: International Civil Aviation Organisation
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
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
· *** Data compared to the previous version altered.**