

**FASTWELD 10 D.S. RESIN US**

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: -           |
| 1.0     | 02/24/2016     | 400001012602 | Date of first issue: 02/24/2016 |

**SECTION 1. IDENTIFICATION**

Product name : FASTWELD 10 D.S. RESIN US

**Manufacturer or supplier's details**

Company name of supplier : Huntsman Advanced Materials Americas LLC  
Address : P.O. Box 4980  
The Woodlands,  
TX 77387  
United States of America  
Telephone : Non-Emergency: (800) 257-5547  
E-mail address of person responsible for the SDS : MSDS@huntsman.com  
Emergency telephone : Chemtrec: (800) 424-9300 or (703) 527-3887

**Recommended use of the chemical and restrictions on use**

Recommended use : Epoxy constituents  
Epoxy constituents

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Skin irritation : Category 2  
Eye irritation : Category 2A  
Skin sensitization : Category 1  
Acute aquatic toxicity : Category 2  
Chronic aquatic toxicity : Category 2

**GHS Label element**

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

**FASTWELD 10 D.S. RESIN US**

|                |                              |                             |  |
|----------------|------------------------------|-----------------------------|--|
| Version<br>1.0 | Revision Date:<br>02/24/2016 | SDS Number:<br>400001012602 | Date of last issue: -<br>Date of first issue: 02/24/2016 |
|----------------|------------------------------|-----------------------------|--|

P264 Wash skin thoroughly after handling.  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear eye protection/ face protection.  
P280 Wear protective gloves.  
**Response:**  
P302 + P352 IF ON SKIN: Wash with plenty of soap and 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.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P362 Take off contaminated clothing and wash before reuse.  
P391 Collect spillage.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Hazardous ingredients**

| Chemical Name           | CAS-No.     | Concentration (%) |
|-------------------------|-------------|-------------------|
| Bisphenol A epoxy resin | 25068-38-6  | 60 - 100          |
| limestone               | 1317-65-3   | 30 - 60           |
| Silicon, amorphous      | 112945-52-5 | 1 - 3             |

**SECTION 4. FIRST AID MEASURES**

General advice : Move out of dangerous area.  
Show this material safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.

If inhaled : If unconscious place in recovery position and seek medical advice.  
If symptoms persist, call a physician.

In case of skin contact : If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.

In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.

**FASTWELD 10 D.S. RESIN US**

|                |                              |                             |  |
|----------------|------------------------------|-----------------------------|--|
| Version<br>1.0 | Revision Date:<br>02/24/2016 | SDS Number:<br>400001012602 | Date of last issue: -<br>Date of first issue: 02/24/2016 |
|----------------|------------------------------|-----------------------------|--|

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed : None known.

**SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : No data is available on the product itself.

Unsuitable extinguishing media : High volume water jet

Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No data is available on the product itself.

Specific extinguishing methods : No data is available on the product itself.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

**SECTION 7. HANDLING AND STORAGE**

**FASTWELD 10 D.S. RESIN US**

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: -           |
| 1.0     | 02/24/2016     | 400001012602 | Date of first issue: 02/24/2016 |

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Advice on safe handling : Do not breathe vapors/dust.  
 Avoid exposure - obtain special instructions before use.  
 Avoid contact with skin and eyes.  
 For personal protection see section 8.  
 Smoking, eating and drinking should be prohibited in the application area.  
 Dispose of rinse water in accordance with local and national regulations.  
 Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
 Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
 Electrical installations / working materials must comply with the technological safety standards.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Ingredients with workplace control parameters**

| Ingredients        | CAS-No.     | Value type<br>(Form of exposure) | Control parameters /<br>Permissible concentration | Basis     |
|--------------------|-------------|----------------------------------|---|-----------|
| limestone          | 1317-65-3   | TWA (total dust)                 | 15 mg/m3  | OSHA Z-1  |
|                    |             | TWA (respirable fraction)        | 5 mg/m3   | OSHA Z-1  |
|                    |             | TWA (Total dust)                 | 15 mg/m3  | OSHA PEL  |
|                    |             | TWA (respirable dust fraction)   | 5 mg/m3   | OSHA PEL  |
|                    |             | TWA (Respirable)                 | 5 mg/m3<br>(Calcium carbonate)                    | NIOSH REL |
|                    |             | TWA (total)                      | 10 mg/m3<br>(Calcium carbonate)                   | NIOSH REL |
| Silicon, amorphous | 112945-52-5 | TWA (Dust)                       | 20 Million particles per cubic foot<br>(Silica)   | OSHA Z-3  |
|                    |             | TWA (Dust)                       | 80 mg/m3 /<br>%SiO2<br>(Silica)                   | OSHA Z-3  |

**FASTWELD 10 D.S. RESIN US**

|                |                              |                             |  |
|----------------|------------------------------|-----------------------------|--|
| Version<br>1.0 | Revision Date:<br>02/24/2016 | SDS Number:<br>400001012602 | Date of last issue: -<br>Date of first issue: 02/24/2016 |
|----------------|------------------------------|-----------------------------|--|

**Personal protective equipment**

- |                          |  |
|--------------------------|--|
| Respiratory protection   | : No personal respiratory protective equipment normally required.  |
| Hand protection          |  |
| Remarks                  | : The suitability for a specific workplace should be discussed with the producers of the protective gloves.                                    |
| Eye protection           | : Eye wash bottle with pure water<br>Tightly fitting safety goggles.<br>Wear face-shield and protective suit for abnormal processing problems. |
| Skin and body protection | : impervious clothing<br>Choose body protection according to the amount and concentration of the dangerous substance at the work place.        |
| Hygiene measures         | : When using do not eat or drink.<br>When using do not smoke.<br>Wash hands before breaks and at the end of workday.                           |

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- |                           |   |
|---------------------------|---|
| Appearance                | : paste   |
| Color                     | : black   |
| Odor                      | : mild  |
| Odor Threshold            | : No data is available on the product itself.             |
| pH                        | : No data is available on the product itself.             |
| Flash point               | : 136 °C<br>Method: Pensky-Martens closed cup, closed cup |
| Evaporation rate          | : No data is available on the product itself.             |
| Flammability (solid, gas) | : No data is available on the product itself.             |
| Upper explosion limit     | : No data is available on the product itself.             |
| Lower explosion limit     | : No data is available on the product itself.             |
| Vapor pressure            | : 0.0000133 hPa (25 °C)                                   |
| Relative vapor density    | : No data is available on the product itself.             |
| Relative density          | : 1.43 - 1.53   |
| Density                   | : No data is available on the product itself.             |
| Solubility(ies)           |   |

**FASTWELD 10 D.S. RESIN US**

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: -           |
| 1.0     | 02/24/2016     | 400001012602 | Date of first issue: 02/24/2016 |

|  |   |
|--|---|
| Water solubility                                   | : insoluble                                   |
| Solubility in other solvents                       | : No data is available on the product itself. |
| Partition coefficient: n-octanol/water             | : No data is available on the product itself. |
| Autoignition temperature                           | : No data is available on the product itself. |
| Thermal decomposition                              | : No data is available on the product itself. |
| Viscosity  | : No data is available on the product itself. |
| Self-Accelerating decomposition temperature (SADT) | : No data is available on the product itself. |

**SECTION 10. STABILITY AND REACTIVITY**

|                                    |   |
|------------------------------------|---|
| Reactivity                         | : No decomposition if stored and applied as directed. |
| Chemical stability                 | : No decomposition if stored and applied as directed. |
| Possibility of hazardous reactions | : No decomposition if stored and applied as directed. |
| Conditions to avoid                | : No data available                                   |

**SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of exposure : No data is available on the product itself.

**Acute toxicity****Ingredients:**

Bisphenol A epoxy resin:

Acute oral toxicityIngredients : LD50 (Rat, female): > 2,000 mg/kg  
Method: OECD Test Guideline 420  
Assessment: The substance or mixture has no acute oral toxicity

limestone:

Acute oral toxicityIngredients : LD50 (Rat): 6,450 mg/kg

Silicon, amorphous:

Acute oral toxicityIngredients : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 401

**Ingredients:**

Silicon, amorphous:

Acute inhalation toxicity : LC50 (Rat, male and female): > 58.8 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

**FASTWELD 10 D.S. RESIN US**

|                |                              |                             |  |
|----------------|------------------------------|-----------------------------|--|
| Version<br>1.0 | Revision Date:<br>02/24/2016 | SDS Number:<br>400001012602 | Date of last issue: -<br>Date of first issue: 02/24/2016 |
|----------------|------------------------------|-----------------------------|--|

Acute dermal toxicity - Product : Acute toxicity estimate : > 5,000 mg/kg  
Method: Calculation method

Acute toxicity (other routes of administration) : No data available

**Skin corrosion/irritation****Product:**

Remarks: May cause skin irritation and/or dermatitis.

**Serious eye damage/eye irritation****Product:**

Remarks: May cause irreversible eye damage.

**Respiratory or skin sensitization****Product:**

Remarks: Causes sensitization.

Assessment: No data available

**Germ cell mutagenicity****Ingredients:**

Bisphenol A epoxy resin:

Genotoxicity in vitro : Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: positive

Concentration: 0 - 5000 ug/plate  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: positive

Silicon, amorphous:

Genotoxicity in vitro : Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative

Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative

Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

**Ingredients:**

Bisphenol A epoxy resin:

Genotoxicity in vivo : Cell type: Germ

**FASTWELD 10 D.S. RESIN US**

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: -           |
| 1.0     | 02/24/2016     | 400001012602 | Date of first issue: 02/24/2016 |

Application Route: Oral  
Method: OECD Test Guideline 478  
Result: negative

Cell type: Somatic  
Application Route: Oral  
Dose: 0 - 5000 mg/kg  
Method: OPPTS 870.5395  
Result: negative

Silicon, amorphous:  
Genotoxicity in vivo

: Application Route: Inhalation  
Dose: 50 mg/m<sup>3</sup>  
Result: negative

**Ingredients:**

Bisphenol A epoxy resin:  
Germ cell mutagenicity-  
Assessment

: Weight of evidence does not support classification as a germ  
cell mutagen.

Germ cell mutagenicity-  
Assessment

: No data available

**Carcinogenicity****Ingredients:**

Bisphenol A epoxy resin:  
Species: Rat, (male and female)  
Application Route: Oral  
Exposure time: 24 month(s)  
Dose: 15 mg/kg  
Frequency of Treatment: 7 days/week  
Method: OECD Test Guideline 453  
Result: negative

Species: Mouse, (male)  
Application Route: Dermal  
Exposure time: 24 month(s)  
Dose: 0.1 mg/kg  
Frequency of Treatment: 3 days/week  
Method: OECD Test Guideline 453  
Result: negative

Species: Rat, (female)  
Application Route: Dermal  
Exposure time: 24 month(s)  
Dose: 1 mg/kg  
Frequency of Treatment: 5 days/week  
Method: OECD Test Guideline 453  
Result: negative

Silicon, amorphous:  
Species: Rat, (male and female)  
Application Route: Oral



**FASTWELD 10 D.S. RESIN US**

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: -           |
| 1.0     | 02/24/2016     | 400001012602 | Date of first issue: 02/24/2016 |

Exposure time: 103 weeks  
Dose: 1800 - 3200 mg/kg  
Frequency of Treatment: 7 daily  
Method: OECD Test Guideline 453  
Result: negative

Carcinogenicity - : No data available  
Assessment

**IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Reproductive toxicity****Ingredients:**

Bisphenol A epoxy resin:  
Effects on fertility : Test Type: Two-generation study  
Species: Rat, male and female  
Application Route: Oral  
Dose: >750 milligram per kilogram  
General Toxicity Parent: No-observed-effect level: 540 mg/kg body weight  
General Toxicity F1: No-observed-effect level: 540 mg/kg body weight  
Symptoms: No adverse effects.  
Method: OECD Test Guideline 416  
Result: No effects on fertility and early embryonic development were detected.

**Ingredients:**

Bisphenol A epoxy resin:  
Effects on fetal development : Species: Rabbit, female  
Application Route: Dermal  
General Toxicity Maternal: NOAEL (No observed adverse effect level): 30 mg/kg body weight  
Method: Other guidelines  
Result: No teratogenic effects.

Species: Rabbit, female  
Application Route: Oral  
General Toxicity Maternal: NOAEL (No observed adverse effect level): 60 mg/kg body weight  
Method: OECD Test Guideline 414  
Result: No teratogenic effects.

Species: Rat, female

**FASTWELD 10 D.S. RESIN US**

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: -           |
| 1.0     | 02/24/2016     | 400001012602 | Date of first issue: 02/24/2016 |

Application Route: Oral  
General Toxicity Maternal: NOAEL (No observed adverse effect level): 180 mg/kg body weight  
Method: OECD Test Guideline 414  
Result: No teratogenic effects.

Silicon, amorphous:

Species: Mouse  
Application Route: Oral  
General Toxicity Maternal: NOAEL (No observed adverse effect level): 1,340 mg/kg body weight  
Method: OECD Test Guideline 414  
Result: No teratogenic effects.

Species: Rabbit  
Application Route: Oral  
General Toxicity Maternal: NOAEL (No observed adverse effect level): 1,600 mg/kg body weight  
Method: OECD Test Guideline 414  
Result: No teratogenic effects.

Species: Rat  
Application Route: Oral  
General Toxicity Maternal: NOAEL (No observed adverse effect level): 1,350 mg/kg body weight  
Method: OECD Test Guideline 414  
Result: No teratogenic effects.

Reproductive toxicity - Assessment : No data available

**STOT-single exposure**

No data available

**STOT-repeated exposure**

No data available

**Repeated dose toxicity****Ingredients:**

Bisphenol A epoxy resin:  
Species: Rat, male and female  
NOAEL (No observed adverse effect level): 50 mg/kg  
Application Route: Ingestion  
Exposure time: 14 Weeks  
Number of exposures: 7 d  
Method: Subchronic toxicity

Species: Rat, male and female  
No-observed-effect level: 10 mg/kg  
Application Route: Skin contact  
Exposure time: 13 Weeks  
Number of exposures: 5 d  
Method: Subchronic toxicity

**FASTWELD 10 D.S. RESIN US**

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: -           |
| 1.0     | 02/24/2016     | 400001012602 | Date of first issue: 02/24/2016 |

Species: Mouse, male  
NOAEL (No observed adverse effect level): 100 mg/kg  
Application Route: Skin contact  
Exposure time: 13 Weeks  
Number of exposures: 3 d  
Method: Subchronic toxicity

Silicon, amorphous:  
Species: Rat, male and female  
NOAEL (No observed adverse effect level): 7950 - 8980 mg/kg  
Application Route: Ingestion  
Exposure time: 4,320 h  
Number of exposures: 7 d  
Method: Subchronic toxicity

Species: Rat, male and female  
NOEC: 4000 - 4500 mg/m<sup>3</sup>  
Application Route: Ingestion  
Test atmosphere: dust/mist  
Exposure time: 13 Weeks  
Number of exposures: 7 d  
Method: OECD Test Guideline 413

Repeated dose toxicity - : No data available  
Assessment

**Aspiration toxicity**

No data available

**Experience with human exposure**

General Information: No data available

Inhalation: No data available

Skin contact: No data available

Eye contact: No data available

Ingestion: No data available

**Toxicology, Metabolism, Distribution**

No data available

**Neurological effects**

No data available

**FASTWELD 10 D.S. RESIN US**

|                |                              |                             |  |
|----------------|------------------------------|-----------------------------|--|
| Version<br>1.0 | Revision Date:<br>02/24/2016 | SDS Number:<br>400001012602 | Date of last issue: -<br>Date of first issue: 02/24/2016 |
|----------------|------------------------------|-----------------------------|--|

**Further information****Product:**

Remarks: No data available

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Ingredients:**

Bisphenol A epoxy resin:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1.5 mg/l  
Exposure time: 96 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 203

limestone:

Toxicity to fish : LC50: > 56,000 mg/l  
Exposure time: 96 h

Silicon, amorphous:

Toxicity to fish : LL50 (Brachydanio rerio (zebrafish)): > 10,000 mg/l  
Exposure time: 96 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 202

**Ingredients:**

Bisphenol A epoxy resin:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2.7 mg/l  
Exposure time: 48 h  
Test Type: static test  
Test substance: Fresh water

Silicon, amorphous:

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): >= 1,000 mg/l  
Exposure time: 24 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 202

**Ingredients:**

Bisphenol A epoxy resin:

Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): 9.4 mg/l  
Exposure time: 72 h  
Test Type: static test  
Test substance: Fresh water  
Method: EPA-660/3-75-009

Silicon, amorphous:

Toxicity to algae : EL50 (Desmodesmus subspicatus (Scenedesmus subspicatus)): > 10,000 mg/l

**FASTWELD 10 D.S. RESIN US**

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: -           |
| 1.0     | 02/24/2016     | 400001012602 | Date of first issue: 02/24/2016 |

Exposure time: 72 h  
 Test Type: static test  
 Test substance: Fresh water  
 Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : No data available

Toxicity to fish (Chronic toxicity) : No data available

**Ingredients:**

Bisphenol A epoxy resin:  
 Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.3 mg/l  
 Exposure time: 21 d  
 Test Type: semi-static test  
 Test substance: Fresh water  
 Method: OECD Test Guideline 211

limestone:  
 Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC50 (Daphnia magna (Water flea)): > 350 mg/l  
 Exposure time: 125 d  
 Test Type: semi-static test  
 Test substance: Fresh water

M-Factor (Chronic aquatic toxicity) : No data available

**Ingredients:**

Bisphenol A epoxy resin:  
 Toxicity to bacteria : IC50 (activated sludge): > 100 mg/l  
 Exposure time: 3 h  
 Test Type: static test  
 Test substance: Fresh water

Toxicity to soil dwelling organisms : No data available

Plant toxicity : No data available

Sediment toxicity : No data available

Toxicity to terrestrial organisms : No data available

Ecotoxicology Assessment  
 Acute aquatic toxicity : No data available

Chronic aquatic toxicity : No data available

Toxicity Data on Soil : No data available

Other organisms relevant to the environment : No data available

**FASTWELD 10 D.S. RESIN US**

|                |                              |                             |  |
|----------------|------------------------------|-----------------------------|--|
| Version<br>1.0 | Revision Date:<br>02/24/2016 | SDS Number:<br>400001012602 | Date of last issue: -<br>Date of first issue: 02/24/2016 |
|----------------|------------------------------|-----------------------------|--|

Further information:  
No data available

**Persistence and degradability****Ingredients:**

Bisphenol A epoxy resin:

Biodegradability : Inoculum: Sewage (STP effluent)  
Concentration: 20 mg/l  
Result: Not readily biodegradable.  
Biodegradation: 5 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

Biochemical Oxygen Demand (BOD) : No data available

Chemical Oxygen Demand (COD) : No data available

BOD/COD : No data available

ThOD : No data available

BOD/ThOD : No data available

Dissolved organic carbon (DOC) : No data available

Physico-chemical removability : No data available

Stability in water : No data available

Photodegradation : No data available

Impact on Sewage Treatment : No data available

**Bioaccumulative potential****Ingredients:**

Bisphenol A epoxy resin:

Bioaccumulation : Bioconcentration factor (BCF): 31  
Remarks: Does not bioaccumulate.

**Ingredients:**

Bisphenol A epoxy resin:

Partition coefficient: n-octanol/water : log Pow: 3.242 (25 °C)  
pH: 7.1  
Method: OECD Test Guideline 117

limestone:  
Partition coefficient: n- : log Pow: < 1

**FASTWELD 10 D.S. RESIN US**

|                |                              |                             |  |
|----------------|------------------------------|-----------------------------|--|
| Version<br>1.0 | Revision Date:<br>02/24/2016 | SDS Number:<br>400001012602 | Date of last issue: -<br>Date of first issue: 02/24/2016 |
|----------------|------------------------------|-----------------------------|--|

octanol/water

Method: No information available.

**Mobility in soil**

Mobility : No data available

**Ingredients:**

Bisphenol A epoxy resin:

Distribution among : Koc: 445.

environmental compartments

Stability in soil : No data available

**Other adverse effects**Environmental fate and : No data available  
pathwaysResults of PBT and vPvB : No data available  
assessmentEndocrine disrupting : No data available  
potentialAdsorbed organic bound : No data available  
halogens (AOX)**Hazardous to the ozone layer**Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82  
Protection of Stratospheric Ozone - CAA Section 602 Class I  
Substances  
Remarks: This product neither contains, nor was  
manufactured with a Class I or Class II ODS as defined by the  
U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A +  
B).Additional ecological : An environmental hazard cannot be excluded in the event of  
information - Product unprofessional handling or disposal.  
Toxic to aquatic life with long lasting effects.Global warming potential : No data available  
(GWP)**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**Waste from residues : The product should not be allowed to enter drains, water  
courses or the soil.  
Do not contaminate ponds, waterways or ditches with  
chemical or used container.  
Send to a licensed waste management company.Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

**FASTWELD 10 D.S. RESIN US**

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: -           |
| 1.0     | 02/24/2016     | 400001012602 | Date of first issue: 02/24/2016 |

**SECTION 14. TRANSPORT INFORMATION****International Regulation****IATA**

|  |  |
|--|--|
| UN/ID No.                                | : UN 3082  |
| Proper shipping name                     | : Environmentally hazardous substance, liquid, n.o.s.<br>(BISPHENOL A EPOXY RESIN) |
| Class                                    | : 9  |
| Packing group                            | : III  |
| Labels                                   | : Miscellaneous  |
| Packing instruction (cargo aircraft)     | : 964  |
| Packing instruction (passenger aircraft) | : 964  |

**IMDG**

|                      |   |
|----------------------|---|
| UN number            | : UN 3082   |
| Proper shipping name | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,<br>N.O.S.<br>(BISPHENOL A EPOXY RESIN) |
| Class                | : 9   |
| Packing group        | : III   |
| Labels               | : 9   |
| EmS Code             | : F-A, S-F  |
| Marine pollutant     | : yes   |

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**Domestic regulation****DOT Classification**

|                      |   |
|----------------------|---|
| UN/ID/NA number      | : UN 3082   |
| Proper shipping name | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,<br>N.O.S.<br>(BISPHENOL A EPOXY RESIN) |
| Class                | : 9   |
| Packing group        | : III   |
| Labels               | : CLASS 9   |
| ERG Code             | : 171   |
| Marine pollutant     | : yes(BISPHENOL A EPOXY RESIN)  |

**SECTION 15. REGULATORY INFORMATION**

|   |                |
|---|----------------|
| <b>TSCA - 5(a) Significant New Use Rule List of Chemicals</b> | : Not relevant |
|---|----------------|



**FASTWELD 10 D.S. RESIN US**

|                |                              |                             |  |
|----------------|------------------------------|-----------------------------|--|
| Version<br>1.0 | Revision Date:<br>02/24/2016 | SDS Number:<br>400001012602 | Date of last issue: -<br>Date of first issue: 02/24/2016 |
|----------------|------------------------------|-----------------------------|--|

**EPCRA - Emergency Planning and Community Right-to-Know****SARA 311/312 Hazards** : Acute Health Hazard**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.**Clean Air Act**

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

**California Prop 65**

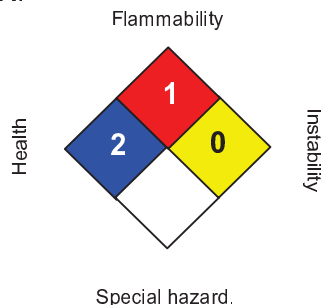
WARNING: This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

Ethylene glycol

107-21-1

**The ingredients of this product are reported in the following inventories:**

|        |   |
|--------|---|
| CH INV | : The mixture contains substances listed on the Swiss Inventory |
| TSCA   | : On TSCA Inventory   |
| DSL    | : All components of this product are on the Canadian DSL.       |
| AICS   | : On the inventory, or in compliance with the inventory         |
| NZIoC  | : Not in compliance with the inventory                          |
| ENCS   | : On the inventory, or in compliance with the inventory         |
| ISHL   | : On the inventory, or in compliance with the inventory         |
| KECI   | : On the inventory, or in compliance with the inventory         |
| PICCS  | : On the inventory, or in compliance with the inventory         |
| IECSC  | : On the inventory, or in compliance with the inventory         |

**SECTION 16. OTHER INFORMATION****Further information****NFPA:****HMIS III:**

|                 |   |
|-----------------|---|
| HEALTH          | 2 |
| FLAMMABILITY    | 1 |
| PHYSICAL HAZARD | 0 |

0 = not significant, 1 =Slight,

2 = Moderate, 3 = High

4 = Extreme, \* = Chronic

**FASTWELD 10 D.S. RESIN US**

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: -           |
| 1.0     | 02/24/2016     | 400001012602 | Date of first issue: 02/24/2016 |

Revision Date : 02/24/2016

While the information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE.

IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE. THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

Hazards, toxicity and behaviour of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behaviour should be determined by the user and made known to handlers, processors and end users.

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**FASTWELD™ 10 D.S. HARDENER US**

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: -           |
| 1.0     | 11/17/2015     | 400001012603 | Date of first issue: 11/17/2015 |

**SECTION 1. IDENTIFICATION**

Product name : FASTWELD™ 10 D.S. HARDENER US

**Manufacturer or supplier's details**

Company name of supplier : Huntsman Advanced Materials Americas LLC  
Address : P.O. Box 4980  
The Woodlands,  
TX 77387  
United States of America  
Telephone : Non-Emergency: (800) 257-5547  
E-mail address of person responsible for the SDS : MSDS@huntsman.com  
Emergency telephone : Chemtrec: (800) 424-9300 or (703) 527-3887

**Recommended use of the chemical and restrictions on use**

Recommended use : Hardener

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Skin corrosion : Category 2  
Serious eye damage : Category 1  
Skin sensitization : Category 1

**GHS Label element**

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H315 Causes skin irritation.

Precautionary Statements : **Prevention:**  
P264 Wash skin thoroughly after handling.  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
**Response:**

**FASTWELD™ 10 D.S. HARDENER US**

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: -           |
| 1.0     | 11/17/2015     | 400001012603 | Date of first issue: 11/17/2015 |

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P363 Wash contaminated clothing before reuse.  
**Disposal:**  
P501 Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Hazardous ingredients**

| Chemical Name                         | CAS-No. | Concentration (%) |
|---------------------------------------|---------|-------------------|
| 2,4,6-tris(dimethylaminomethyl)phenol | 90-72-2 | 3 - 7             |

**SECTION 4. FIRST AID MEASURES**

General advice : Move out of dangerous area.  
Consult a physician.  
Show this material safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.

If inhaled : If unconscious place in recovery position and seek medical advice.  
If symptoms persist, call a physician.

In case of skin contact : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.  
If on skin, rinse well with water.  
If on clothes, remove clothes.

In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Continue rinsing eyes during transport to hospital.  
Remove contact lenses.

**FASTWELD™ 10 D.S. HARDENER US**

|                |                              |                             |  |
|----------------|------------------------------|-----------------------------|--|
| Version<br>1.0 | Revision Date:<br>11/17/2015 | SDS Number:<br>400001012603 | Date of last issue: -<br>Date of first issue: 11/17/2015 |
|----------------|------------------------------|-----------------------------|--|

|   |  |
|---|--|
|   | Protect unharmed eye.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist.  |
| If swallowed  | : Keep respiratory tract clear.<br>Do NOT induce vomiting.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician.<br>Take victim immediately to hospital. |
| Most important symptoms and effects, both acute and delayed | : None known.  |

**SECTION 5. FIRE-FIGHTING MEASURES**

|  |   |
|--|---|
| Suitable extinguishing media                   | : No data is available on the product itself.   |
| Unsuitable extinguishing media                 | : High volume water jet   |
| Specific hazards during fire fighting          | : Do not allow run-off from fire fighting to enter drains or water courses.   |
| Hazardous combustion products                  | : No data is available on the product itself.   |
| Specific extinguishing methods                 | : No data is available on the product itself.   |
| Further information                            | : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.<br>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |
| Special protective equipment for fire-fighters | : Wear self-contained breathing apparatus for firefighting if necessary.  |

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

|   |   |
|---|---|
| Personal precautions, protective equipment and emergency procedures | : Use personal protective equipment.  |
| Environmental precautions   | : Prevent product from entering drains.<br>Prevent further leakage or spillage if safe to do so.<br>If the product contaminates rivers and lakes or drains inform respective authorities. |
| Methods and materials for containment and cleaning up               | : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).<br>Keep in suitable, closed containers for disposal.                             |

**FASTWELD™ 10 D.S. HARDENER US**

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: -           |
| 1.0     | 11/17/2015     | 400001012603 | Date of first issue: 11/17/2015 |

**SECTION 7. HANDLING AND STORAGE**

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Do not breathe vapors/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
To avoid spills during handling keep bottle on a metal tray.  
Dispose of rinse water in accordance with local and national regulations.  
Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
Observe label precautions.  
Electrical installations / working materials must comply with the technological safety standards.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Ingredients with workplace control parameters****Personal protective equipment**

- Respiratory protection : No personal respiratory protective equipment normally required.
- Hand protection  
Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles.  
Wear face-shield and protective suit for abnormal processing problems.
- Skin and body protection : impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Hygiene measures : When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**FASTWELD™ 10 D.S. HARDENER US**

|                |                              |                             |  |
|----------------|------------------------------|-----------------------------|--|
| Version<br>1.0 | Revision Date:<br>11/17/2015 | SDS Number:<br>400001012603 | Date of last issue: -<br>Date of first issue: 11/17/2015 |
|----------------|------------------------------|-----------------------------|--|

|  |  |
|--|--|
| Appearance   | : paste  |
| Color  | : white  |
| Odor   | : No data available  |
| Odor Threshold                                     | : No data is available on the product itself.                |
| pH   | : No data is available on the product itself.                |
| Flash point  | : 132.22 °C<br>Method: Pensky-Martens closed cup, closed cup |
| Evaporation rate                                   | : No data is available on the product itself.                |
| Flammability (solid, gas)                          | : No data is available on the product itself.                |
| Upper explosion limit                              | : No data is available on the product itself.                |
| Lower explosion limit                              | : No data is available on the product itself.                |
| Vapor pressure                                     | : 0.010664 hPa (25 °C)                                       |
| Relative vapor density                             | : No data is available on the product itself.                |
| Relative density                                   | : 1.42   |
| Density  | : No data is available on the product itself.                |
| Solubility(ies)                                    |  |
| Water solubility                                   | : slightly soluble   |
| Solubility in other solvents                       | : No data is available on the product itself.                |
| Partition coefficient: n-octanol/water             | : No data is available on the product itself.                |
| Autoignition temperature                           | : No data is available on the product itself.                |
| Thermal decomposition                              | : No data is available on the product itself.                |
| Viscosity  | : No data is available on the product itself.                |
| Self-Accelerating decomposition temperature (SADT) | : No data is available on the product itself.                |

**SECTION 10. STABILITY AND REACTIVITY**

|                                    |   |
|------------------------------------|---|
| Reactivity                         | : No decomposition if stored and applied as directed. |
| Chemical stability                 | : No decomposition if stored and applied as directed. |
| Possibility of hazardous reactions | : No decomposition if stored and applied as directed. |
| Conditions to avoid                | : No data available                                   |

**FASTWELD™ 10 D.S. HARDENER US**

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: -           |
| 1.0     | 11/17/2015     | 400001012603 | Date of first issue: 11/17/2015 |

**SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of exposure : No data is available on the product itself.

**Acute toxicity**

Acute oral toxicity : No data available

Acute inhalation toxicity : No data available

Acute dermal toxicity : No data available

Acute toxicity (other routes of administration) : No data available

**Skin corrosion/irritation****Product:**

Remarks: Extremely corrosive and destructive to tissue.

**Serious eye damage/eye irritation****Product:**

Remarks: May cause irreversible eye damage.

**Respiratory or skin sensitization****Product:**

Remarks: Causes sensitization.

Assessment: No data available

**Germ cell mutagenicity****Ingredients:**

2,4,6-tris(dimethylaminomethyl)phenol:

Genotoxicity in vitro : Concentration: 5000 ug/plate  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

Concentration: 2500 ug/plate  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative

Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative

Genotoxicity in vivo : No data available

**Carcinogenicity**

No data available



**FASTWELD™ 10 D.S. HARDENER US**

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: -           |
| 1.0     | 11/17/2015     | 400001012603 | Date of first issue: 11/17/2015 |

Carcinogenicity -  
Assessment : No data available

**IARC** Group 2B: Possibly carcinogenic to humans

titanium dioxide

**OSHA** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Reproductive toxicity****Ingredients:**

2,4,6-tris(dimethylaminomethyl)phenol:

Effects on fertility : Species: Rat, male and female  
Application Route: Oral  
Method: OECD Test Guideline 422  
Remarks: No significant adverse effects were reported

Effects on fetal development : No data available

Reproductive toxicity -  
Assessment : No data available

**STOT-single exposure**

No data available

**STOT-repeated exposure**

No data available

**Repeated dose toxicity****Ingredients:**

2,4,6-tris(dimethylaminomethyl)phenol:

Species: Rat, male and female

No-observed-effect level: 15 mg/kg

Application Route: Ingestion

Exposure time: 1,032 h

Number of exposures: 7 d

Method: Subacute toxicity

Repeated dose toxicity -  
Assessment : No data available

**Aspiration toxicity**

No data available

**FASTWELD™ 10 D.S. HARDENER US**

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: -           |
| 1.0     | 11/17/2015     | 400001012603 | Date of first issue: 11/17/2015 |

**Experience with human exposure**

General Information: No data available

Inhalation: No data available

Skin contact: No data available

Eye contact: No data available

Ingestion: No data available

**Toxicology, Metabolism, Distribution**

No data available

**Neurological effects**

No data available

**Further information****Product:**

Remarks: No data available

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Ingredients:**

2,4,6-tris(dimethylaminomethyl)phenol:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 175 mg/l  
Exposure time: 96 h  
Test Type: static test  
Test substance: Fresh water

**Ingredients:**

2,4,6-tris(dimethylaminomethyl)phenol:

Toxicity to daphnia and other : LC50: 718 mg/l  
aquatic invertebrates Exposure time: 96 h  
Test Type: static test  
Test substance: Marine water

**Ingredients:**

2,4,6-tris(dimethylaminomethyl)phenol:

Toxicity to algae : ErC50 (Desmodesmus subspicatus (Scenedesmus  
subspicatus)): 84 mg/l  
Exposure time: 72 h  
Test Type: static test

**FASTWELD™ 10 D.S. HARDENER US**

|                |                              |                             |  |
|----------------|------------------------------|-----------------------------|--|
| Version<br>1.0 | Revision Date:<br>11/17/2015 | SDS Number:<br>400001012603 | Date of last issue: -<br>Date of first issue: 11/17/2015 |
|----------------|------------------------------|-----------------------------|--|

Test substance: Fresh water  
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : No data available

Toxicity to fish (Chronic toxicity) : No data available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : No data available

M-Factor (Chronic aquatic toxicity) : No data available

Toxicity to bacteria : No data available

Toxicity to soil dwelling organisms : No data available

Plant toxicity : No data available

Sediment toxicity : No data available

Toxicity to terrestrial organisms : No data available

Ecotoxicology Assessment  
Acute aquatic toxicity : No data available

**Ingredients:**

2,4,6-tris(dimethylaminomethyl)phenol:  
Chronic aquatic toxicity : This product has no known ecotoxicological effects.

Toxicity Data on Soil : No data available

Other organisms relevant to the environment : No data available

Further information:  
No data available

**Persistence and degradability****Ingredients:**

2,4,6-tris(dimethylaminomethyl)phenol:  
Biodegradability : Inoculum: activated sludge  
Concentration: 2 mg/l  
Result: Not readily biodegradable.  
Biodegradation: 4 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D

Biochemical Oxygen : No data available

**FASTWELD™ 10 D.S. HARDENER US**

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: -           |
| 1.0     | 11/17/2015     | 400001012603 | Date of first issue: 11/17/2015 |

**Demand (BOD)**

Chemical Oxygen Demand (COD) : No data available

BOD/COD : No data available

ThOD : No data available

BOD/ThOD : No data available

Dissolved organic carbon (DOC) : No data available

Physico-chemical removability : No data available

Stability in water : No data available

Photodegradation : No data available

Impact on Sewage Treatment : No data available

**Bioaccumulative potential**

Bioaccumulation : No data available

**Ingredients:**

2,4,6-tris(dimethylaminomethyl)phenol:

Partition coefficient: n-octanol/water : log Pow: 0.219 (21.5 °C)  
Method: OPPTS 830.7550

**Mobility in soil**

Mobility : No data available

Distribution among environmental compartments : No data available

Stability in soil : No data available

**Other adverse effects**

Environmental fate and pathways : No data available

Results of PBT and vPvB assessment : No data available

Endocrine disrupting potential : No data available

Adsorbed organic bound halogens (AOX) : No data available

**FASTWELD™ 10 D.S. HARDENER US**

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: -           |
| 1.0     | 11/17/2015     | 400001012603 | Date of first issue: 11/17/2015 |

**Hazardous to the ozone layer**

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82  
Protection of Stratospheric Ozone - CAA Section 602 Class I  
Substances  
Remarks: This product neither contains, nor was  
manufactured with a Class I or Class II ODS as defined by the  
U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A +  
B).

Additional ecological : No data available  
information - Product

Global warming potential : No data available  
(GWP)

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with  
chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

**SECTION 14. TRANSPORT INFORMATION****International Regulation****IATA**

Not regulated as a dangerous good

**IMDG**

Not regulated as a dangerous good

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**Domestic regulation****DOT Classification**

Not regulated as a dangerous good

**SECTION 15. REGULATORY INFORMATION**

**TSCA - 5(a) Significant New Use Rule List of Chemicals** : Not relevant

**FASTWELD™ 10 D.S. HARDENER US**

|                |                              |                             |  |
|----------------|------------------------------|-----------------------------|--|
| Version<br>1.0 | Revision Date:<br>11/17/2015 | SDS Number:<br>400001012603 | Date of last issue: -<br>Date of first issue: 11/17/2015 |
|----------------|------------------------------|-----------------------------|--|

**EPCRA - Emergency Planning and Community Right-to-Know****SARA 311/312 Hazards** : Chronic Health Hazard**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.**Clean Air Act**

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

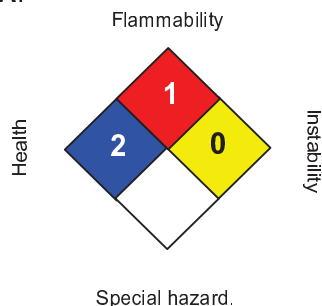
This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

**California Prop 65** This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

**The ingredients of this product are reported in the following inventories:**

|        |   |
|--------|---|
| CH INV | : The mixture contains substances listed on the Swiss Inventory |
| TSCA   | : On TSCA Inventory   |
| DSL    | : All components of this product are on the Canadian DSL.       |
| AICS   | : On the inventory, or in compliance with the inventory         |
| NZIoC  | : Not in compliance with the inventory                          |
| ENCS   | : On the inventory, or in compliance with the inventory         |
| ISHL   | : On the inventory, or in compliance with the inventory         |
| KECI   | : Not in compliance with the inventory                          |
| PICCS  | : On the inventory, or in compliance with the inventory         |
| IECSC  | : On the inventory, or in compliance with the inventory         |

**SECTION 16. OTHER INFORMATION****Further information****NFPA:****HMIS III:**

|                        |          |
|------------------------|----------|
| <b>HEALTH</b>          | <b>2</b> |
| <b>FLAMMABILITY</b>    | <b>1</b> |
| <b>PHYSICAL HAZARD</b> | <b>0</b> |

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, \* = Chronic

**FASTWELD™ 10 D.S. HARDENER US**

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: -           |
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