

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form : Mixture  
Trade name : MASTER STEEL REINFORCED EPOXY PUTTY  
Product code : PS2

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Multiple Use Epoxy Putty

### 1.3. Details of the supplier of the safety data sheet

Master Chemical  
4635 Willow Drive  
Medina, MN 55340 - USA  
T: 612-478-2360

### 1.4. Emergency telephone number

Emergency number : CHEMTREC 24 Hour 1-800-424-9300, 1-703-527-3887 (International)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification (GHS-US)

Carc. 1A H350

Full text of H-phrases: see section 16

### 2.2. Label elements

#### GHS-US labeling

Hazard pictograms (GHS-US) :



GHS08

Signal word (GHS-US) : Danger  
Hazard statements (GHS-US) : H350 - May cause cancer  
Precautionary statements (GHS-US) : P201 - Obtain special instructions  
P202 - Do not handle until all safety precautions have been read and understood  
P280 - Wear protective gloves, protective clothing, eye protection, face protection  
P308+P313 - If exposed or concerned: Get medical advice/attention  
P405 - Store locked up  
P501 - Dispose of contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations.

### 2.3. Other hazards

Other hazards not contributing to the classification : None under normal conditions.

### 2.4. Unknown acute toxicity (GHS-US)

No data available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

| Name   | Product identifier    | %               | Classification (GHS-US)                          |
|--|-----------------------|-----------------|--|
| Talc   | (CAS No) 14807-96-6   | 39.954 - 66.59  | Not classified                                   |
| 2,2-Bis-[4-(2,3-Epoxypropoxy) Phenyl] Propane, Polymer | (CAS No) 25085-99-8   | 10 - 30         | Not classified                                   |
| GMP-800  | (CAS No) Trade Secret | 10 - 30         | Not classified                                   |
| Dolomite   | (CAS No) 16389-88-1   | 3.3295 - 6.659  | Not classified                                   |
| Magnesium Carbonate                                    | (CAS No) 546-93-0     | 0.6659 - 3.3295 | Not classified                                   |
| Quartz   | (CAS No) 14808-60-7   | 0.6659 - 3.3295 | Acute Tox. 4 (Oral), H302<br>Carc. 1A, H350      |
| 2,4,6-Tris (Dimethylaminomethyl) Phenol                | (CAS No) 90-72-2      | > 1.5675        | Acute Tox. 4 (Oral), H302<br>Skin Irrit. 2, H315 |

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| Name                   | Product identifier   | %           | Classification (GHS-US) |
|------------------------|----------------------|-------------|-------------------------|
| Electronic Grade Resin | (CAS No) 28064-14-4  | 1 - 5       | Not classified          |
| Iron (III) Oxide       | (CAS No) 1309-37-1   | 1 - 5       | Not classified          |
| Epoxy White            | (CAS No) 025085-99-8 | < 1         | Not classified          |
| DMP-30                 |                      | < 0.0825    | Not classified          |
| Carbon Black           | (CAS No) 1333-86-4   | < 0.0389702 | Carc. 2, H351           |
| Silicon, Crystalline   | (CAS No) 7440-21-3   | < 0.0186    | Not classified          |
| Chromium               | (CAS No) 7440-47-3   | < 0.0124    | Not classified          |
| Manganese              | (CAS No) 7439-96-5   | < 0.01178   | Not classified          |

The exact percentage is a trade secret.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                                       |   |
|---------------------------------------|---|
| First-aid measures general            | : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). |
| First-aid measures after inhalation   | : Allow victim to breathe fresh air. Allow the victim to rest.  |
| First-aid measures after skin contact | : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.                 |
| First-aid measures after eye contact  | : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.                          |
| First-aid measures after ingestion    | : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.  |

#### 4.2. Most important symptoms and effects, both acute and delayed

|                                      |   |
|--------------------------------------|---|
| Symptoms/injuries                    | : If you feel unwell, seek medical advice.        |
| Symptoms/injuries after inhalation   | : May cause cancer by inhalation.                 |
| Symptoms/injuries after skin contact | : May cause slight irritation.                    |
| Symptoms/injuries after eye contact  | : May cause slight eye irritation.                |
| Symptoms/injuries after ingestion    | : May be harmful if swallowed and enters airways. |

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

|                                |  |
|--------------------------------|--|
| Suitable extinguishing media   | : Foam. Dry powder. Carbon dioxide. Water spray. Sand. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.                     |

#### 5.2. Special hazards arising from the substance or mixture

No additional information available

#### 5.3. Advice for firefighters

|                                |   |
|--------------------------------|---|
| Firefighting instructions      | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection.   |

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

|                  |                            |
|------------------|----------------------------|
| General measures | : Remove ignition sources. |
|------------------|----------------------------|

##### 6.1.1. For non-emergency personnel

|                      |                                   |
|----------------------|-----------------------------------|
| Protective equipment | : Safety glasses. Gloves.         |
| Emergency procedures | : Evacuate unnecessary personnel. |

##### 6.1.2. For emergency responders

|                      |  |
|----------------------|--|
| Protective equipment | : Equip cleanup crew with proper protection. |
| Emergency procedures | : Ventilate area.                            |

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

|                         |  |
|-------------------------|--|
| For containment         | : Keep in tubing if not used.  |
| Methods for cleaning up | : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials. |

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Obtain special instructions. Do not handle until all safety precautions have been read and understood.
- Hygiene measures : Do not eat, drink or smoke when using this product. Wash affected areas thoroughly after handling. Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

#### 7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Comply with applicable regulations.
- Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.
- Incompatible products : Strong bases. Strong acids.
- Incompatible materials : Sources of ignition. Direct sunlight.

#### 7.3. Specific end use(s)

Follow Label Directions.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

| Carbon Black (1333-86-4) |                                |                     |
|--------------------------|--------------------------------|---------------------|
| USA ACGIH                | ACGIH TWA (mg/m <sup>3</sup> ) | 3 mg/m <sup>3</sup> |

| Iron (III) Oxide (1309-37-1) |                                |                     |
|------------------------------|--------------------------------|---------------------|
| USA ACGIH                    | ACGIH TWA (mg/m <sup>3</sup> ) | 5 mg/m <sup>3</sup> |

| Manganese (7439-96-5) |                                |                       |
|-----------------------|--------------------------------|-----------------------|
| USA ACGIH             | ACGIH TWA (mg/m <sup>3</sup> ) | 0.1 mg/m <sup>3</sup> |

| Chromium (7440-47-3) |                                |                       |
|----------------------|--------------------------------|-----------------------|
| USA ACGIH            | ACGIH TWA (mg/m <sup>3</sup> ) | 0.5 mg/m <sup>3</sup> |

| Talc (14807-96-6) |                                     |                     |
|-------------------|-------------------------------------|---------------------|
| USA ACGIH         | ACGIH TWA (mg/m <sup>3</sup> )      | 2 mg/m <sup>3</sup> |
| USA OSHA          | OSHA PEL (TWA) (mg/m <sup>3</sup> ) | 2 mg/m <sup>3</sup> |

| Dolomite (16389-88-1) |                                |                     |
|-----------------------|--------------------------------|---------------------|
| USA ACGIH             | ACGIH TWA (mg/m <sup>3</sup> ) | 3 mg/m <sup>3</sup> |

| Magnesium Carbonate (546-93-0) |                                     |                      |
|--------------------------------|-------------------------------------|----------------------|
| USA OSHA                       | OSHA PEL (TWA) (mg/m <sup>3</sup> ) | 15 mg/m <sup>3</sup> |

| Quartz (14808-60-7) |                                     |                         |
|---------------------|-------------------------------------|-------------------------|
| USA ACGIH           | ACGIH TWA (mg/m <sup>3</sup> )      | 0.025 mg/m <sup>3</sup> |
| USA OSHA            | OSHA PEL (TWA) (mg/m <sup>3</sup> ) | 0.1 mg/m <sup>3</sup>   |

#### 8.2. Exposure controls

- Appropriate engineering controls : Local exhaust ventilation, vent hoods.
- Personal protective equipment : Gloves. Safety glasses. Avoid all unnecessary exposure.



- Hand protection : Wear protective gloves.
- Eye protection : Chemical goggles or safety glasses.
- Skin and body protection : Wear suitable protective clothing.
- Respiratory protection : Wear appropriate mask.
- Other information : Do not eat, drink or smoke during use.

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### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

|   |                            |
|---|----------------------------|
| Physical state                              | : Solid                    |
| Appearance                                  | : Cylindrical Putty Stick. |
| Color                                       | : Gray.                    |
| Odor  | : Pungent.                 |
| Odor threshold                              | : No data available        |
| pH  | : No data available        |
| Relative evaporation rate (butyl acetate=1) | : No data available        |
| Melting point                               | : No data available        |
| Freezing point                              | : No data available        |
| Boiling point                               | : > 100 °C                 |
| Flash point                                 | : > 100 °C                 |
| Auto-ignition temperature                   | : No data available        |
| Decomposition temperature                   | : No data available        |
| Flammability (solid, gas)                   | : No data available        |
| Vapor pressure                              | : No data available        |
| Relative vapor density at 20 °C             | : No data available        |
| Relative density                            | : 1.7                      |
| Solubility                                  | : No data available        |
| Log Pow                                     | : No data available        |
| Log Kow                                     | : No data available        |
| Viscosity, kinematic                        | : No data available        |
| Viscosity, dynamic                          | : No data available        |
| Explosive properties                        | : No data available        |
| Oxidizing properties                        | : No data available        |
| Explosive limits                            | : No data available        |

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Not established.

#### 10.3. Possibility of hazardous reactions

Not established.

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

#### 10.5. Incompatible materials

Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

Toxic fume. . Carbon monoxide. Carbon dioxide.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

| GMP-800 (Trade Secret) |             |
|------------------------|-------------|
| LD50 oral rat          | 2.6 g/kg    |
| LD50 dermal rabbit     | > 10.2 g/kg |

| 2,4,6-Tris (Dimethylaminomethyl) Phenol (90-72-2) |   |
|---|---|
| LD50 oral rat                                     | 1200 mg/kg (Rat; Equivalent or similar to OECD 401; Literature study; 2169 mg/kg bodyweight; Rat; Experimental value) |
| LD50 dermal rat                                   | > 2000 mg/kg (Rat; Literature study; Other; >1 ml/kg; Rat; Experimental value)  |

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| <b>Carbon Black (1333-86-4)</b> |   |
|---------------------------------|---|
| LD50 oral rat                   | > 8000 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value) |
| LD50 dermal rabbit              | > 3000 mg/kg (Rabbit)   |

| <b>2,2-Bis-[4-(2,3-Epoxypropoxy) Phenyl] Propane, Polymer (25085-99-8)</b> |                        |
|--|------------------------|
| LD50 oral rat  | > 5000 mg/kg (Rat)     |
| LD50 dermal rabbit   | > 20000 mg/kg (Rabbit) |

| <b>Electronic Grade Resin (28064-14-4)</b> |            |
|--|------------|
| LD50 oral rat                              | 4000 mg/kg |

| <b>Iron (III) Oxide (1309-37-1)</b> |                                      |
|-------------------------------------|--------------------------------------|
| LD50 oral rat                       | > 5000 mg/kg (Rat; Literature study) |

| <b>Manganese (7439-96-5)</b> |                  |
|------------------------------|------------------|
| LD50 oral rat                | 9000 mg/kg (Rat) |

| <b>Silicon, Crystalline (7440-21-3)</b> |  |
|---|--|
| LD50 oral rat                           | > 3160 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value; >5000 mg/kg bodyweight; Rat; Weight of evidence) |
| LD50 dermal rabbit                      | > 5000 mg/kg body weight (Rabbit; Weight of evidence)  |

| <b>Quartz (14808-60-7)</b> |           |
|----------------------------|-----------|
| LD50 oral rat              | 500 mg/kg |

|                                   |                     |
|-----------------------------------|---------------------|
| Skin corrosion/irritation         | : Not classified    |
| Serious eye damage/irritation     | : Not classified    |
| Respiratory or skin sensitization | : Not classified    |
| Germ cell mutagenicity            | : Not classified    |
| Carcinogenicity                   | : May cause cancer. |

| <b>Carbon Black (1333-86-4)</b> |    |
|---------------------------------|----|
| IARC group                      | 2B |

| <b>Iron (III) Oxide (1309-37-1)</b> |   |
|-------------------------------------|---|
| IARC group                          | 3 |

| <b>Chromium (7440-47-3)</b> |   |
|-----------------------------|---|
| IARC group                  | 3 |

| <b>Talc (14807-96-6)</b> |   |
|--------------------------|---|
| IARC group               | 3 |

| <b>Quartz (14808-60-7)</b> |   |
|----------------------------|---|
| IARC group                 | 1 |

|   |   |
|---|---|
| Reproductive toxicity                               | : Not classified  |
| Specific target organ toxicity (single exposure)    | : Not classified  |
| Specific target organ toxicity (repeated exposure)  | : Not classified  |
| Aspiration hazard                                   | : Not classified  |
| Potential Adverse human health effects and symptoms | : Based on available data, the classification criteria are not met. |
| Symptoms/injuries after inhalation                  | : May cause cancer by inhalation.                                   |
| Symptoms/injuries after skin contact                | : May cause slight irritation.                                      |
| Symptoms/injuries after eye contact                 | : May cause slight eye irritation.                                  |
| Symptoms/injuries after ingestion                   | : May be harmful if swallowed and enters airways.                   |

## SECTION 12: Ecological information

### 12.1. Toxicity

| <b>GMP-800 (Trade Secret)</b> |            |
|-------------------------------|------------|
| LC50 fish 1                   | > 100 mg/l |

| <b>2,4,6-Tris (Dimethylaminomethyl) Phenol (90-72-2)</b> |  |
|--|--|
| LC50 fish 1  | > 100 mg/l (96 h; Pisces; Nominal concentration) |
| EC50 Daphnia 1   | 10 - 100 mg/l (Invertebrata; Estimated value)    |
| LC50 fish 2  | 70.9 mg/l (96 h; Pisces)                         |
| Threshold limit algae 1                                  | 10 - 100,Algae                                   |

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| <b>2,4,6-Tris (Dimethylaminomethyl) Phenol (90-72-2)</b> |  |
|--|--|
| Threshold limit algae 2                                  | 84 mg/l (72 h; Scenedesmus subspicatus; Growth rate) |

| <b>DMP-30</b>                  |  |
|--------------------------------|--|
| LC50 fish 1                    | 175 mg/l (96 Hours; CYPRINUS CARPIO; FRESH WATER)                            |
| LC50 other aquatic organisms 1 | 750 - 1000 mg/l (96 Hours; BRACHYURA; FRESH WATER)                           |
| LC50 fish 2                    | 180 - 240 mg/l (96 Hours; SALMO GAIRDNERI/ ONCORHYNCHUS MYKISS; FRESH WATER) |
| LC50 other aquatic organisms 2 | 718 mg/l (96 Hours; PALAEMONETES SP.; FRESH WATER)                           |

| <b>Carbon Black (1333-86-4)</b> |                                       |
|---------------------------------|---------------------------------------|
| LC50 fish 1                     | > 1000 mg/l (96 h; Brachydanio rerio) |
| EC50 Daphnia 1                  | > 5600 mg/l (24 h; Daphnia magna)     |

| <b>2,2-Bis-[4-(2,3-Epoxypropoxy) Phenyl] Propane, Polymer (25085-99-8)</b> |   |
|--|---|
| LC50 fish 1  | 3.1 mg/l 96 Hours Freshwater Fish (Pimephales promelas) |
| EC50 Daphnia 1   | 1.4 mg/l 48 Hours                                       |

| <b>Iron (III) Oxide (1309-37-1)</b> |   |
|-------------------------------------|---|
| LC50 fish 1                         | > 1000 mg/l (48 h; Leuciscus idus; Nominal concentration) |

| <b>Talc (14807-96-6)</b> |  |
|--------------------------|--|
| LC50 fish 1              | > 100 g/l (24 h; Brachydanio rerio; Intermittent flow) |

### 12.2. Persistence and degradability

| <b>MASTER STEEL REINFORCED EPOXY PUTTY</b> |                  |
|--|------------------|
| Persistence and degradability              | Not established. |

| <b>GMP-800 (Trade Secret)</b> |                  |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |

| <b>2,4,6-Tris (Dimethylaminomethyl) Phenol (90-72-2)</b> |  |
|--|--|
| Persistence and degradability                            | Not readily biodegradable in water. Highly mobile in soil. Low potential for adsorption in soil. |

| <b>DMP-30</b>                 |  |
|-------------------------------|--|
| Persistence and degradability | Biodegradability in soil: no data available. |

| <b>Carbon Black (1333-86-4)</b> |  |
|---------------------------------|--|
| Persistence and degradability   | Biodegradability: not applicable. Biodegradability in soil: not applicable. Adsorbs into the soil. |
| Biochemical oxygen demand (BOD) | Not applicable   |
| Chemical oxygen demand (COD)    | Not applicable   |
| ThOD                            | Not applicable   |
| BOD (% of ThOD)                 | Not applicable   |

| <b>2,2-Bis-[4-(2,3-Epoxypropoxy) Phenyl] Propane, Polymer (25085-99-8)</b> |                  |
|--|------------------|
| Persistence and degradability  | Not established. |

| <b>Electronic Grade Resin (28064-14-4)</b> |  |
|--|--|
| Persistence and degradability              | Biodegradability in soil: no data available. |

| <b>Epoxy White (025085-99-8)</b> |                  |
|----------------------------------|------------------|
| Persistence and degradability    | Not established. |

| <b>Iron (III) Oxide (1309-37-1)</b> |  |
|-------------------------------------|--|
| Persistence and degradability       | Biodegradability: not applicable. Adsorbs into the soil. |
| Biochemical oxygen demand (BOD)     | Not applicable   |
| Chemical oxygen demand (COD)        | Not applicable   |
| ThOD                                | Not applicable   |
| BOD (% of ThOD)                     | Not applicable   |

| <b>Manganese (7439-96-5)</b>    |  |
|---------------------------------|--|
| Persistence and degradability   | Biodegradability: not applicable. Adsorbs into the soil. |
| Biochemical oxygen demand (BOD) | Not applicable   |
| Chemical oxygen demand (COD)    | Not applicable   |
| ThOD                            | Not applicable   |
| BOD (% of ThOD)                 | Not applicable   |

| <b>Silicon, Crystalline (7440-21-3)</b> |                  |
|---|------------------|
| Persistence and degradability           | Not established. |

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| <b>Silicon, Crystalline (7440-21-3)</b> |                |
|---|----------------|
| Biochemical oxygen demand (BOD)         | Not applicable |
| Chemical oxygen demand (COD)            | Not applicable |
| ThOD                                    | Not applicable |
| BOD (% of ThOD)                         | Not applicable |

| <b>Chromium (7440-47-3)</b>     |  |
|---------------------------------|--|
| Persistence and degradability   | Biodegradability: not applicable. Biodegradability in soil: not applicable. Adsorbs into the soil. |
| Biochemical oxygen demand (BOD) | Not applicable   |
| Chemical oxygen demand (COD)    | Not applicable   |
| ThOD                            | Not applicable   |
| BOD (% of ThOD)                 | Not applicable   |

| <b>Talc (14807-96-6)</b>        |                                   |
|---------------------------------|-----------------------------------|
| Persistence and degradability   | Biodegradability: not applicable. |
| Biochemical oxygen demand (BOD) | Not applicable                    |
| Chemical oxygen demand (COD)    | Not applicable                    |
| ThOD                            | Not applicable                    |
| BOD (% of ThOD)                 | Not applicable                    |

| <b>Dolomite (16389-88-1)</b>    |                                   |
|---------------------------------|-----------------------------------|
| Persistence and degradability   | Biodegradability: not applicable. |
| Biochemical oxygen demand (BOD) | Not applicable                    |
| Chemical oxygen demand (COD)    | Not applicable                    |
| ThOD                            | Not applicable                    |
| BOD (% of ThOD)                 | Not applicable                    |

| <b>Magnesium Carbonate (546-93-0)</b> |                                   |
|---------------------------------------|-----------------------------------|
| Persistence and degradability         | Biodegradability: not applicable. |
| Biochemical oxygen demand (BOD)       | Not applicable                    |
| Chemical oxygen demand (COD)          | Not applicable                    |
| ThOD                                  | Not applicable                    |
| BOD (% of ThOD)                       | Not applicable                    |

| <b>Quartz (14808-60-7)</b>      |                                   |
|---------------------------------|-----------------------------------|
| Persistence and degradability   | Biodegradability: not applicable. |
| Biochemical oxygen demand (BOD) | Not applicable                    |
| Chemical oxygen demand (COD)    | Not applicable                    |
| ThOD                            | Not applicable                    |
| BOD (% of ThOD)                 | Not applicable                    |

### 12.3. Bioaccumulative potential

| <b>MASTER STEEL REINFORCED EPOXY PUTTY</b> |                  |
|--|------------------|
| Bioaccumulative potential                  | Not established. |

| <b>GMP-800 (Trade Secret)</b> |                  |
|-------------------------------|------------------|
| Bioaccumulative potential     | Not established. |

| <b>2,4,6-Tris (Dimethylaminomethyl) Phenol (90-72-2)</b> |  |
|--|--|
| Log Pow  | 0.77 (Literature; 0.219; Experimental value; Equivalent or similar to OECD 107; 21.5 °C) |
| Bioaccumulative potential                                | Low potential for bioaccumulation (Log Kow < 4).   |

| <b>DMP-30</b>             |                                    |
|---------------------------|------------------------------------|
| Bioaccumulative potential | No bioaccumulation data available. |

| <b>Carbon Black (1333-86-4)</b> |                      |
|---------------------------------|----------------------|
| Bioaccumulative potential       | Not bioaccumulative. |

| <b>2,2-Bis-[4-(2,3-Epoxypropoxy) Phenyl] Propane, Polymer (25085-99-8)</b> |                  |
|--|------------------|
| Bioaccumulative potential  | Not established. |

| <b>Electronic Grade Resin (28064-14-4)</b> |                                    |
|--|------------------------------------|
| Bioaccumulative potential                  | No bioaccumulation data available. |

| <b>Epoxy White (025085-99-8)</b> |                  |
|----------------------------------|------------------|
| Bioaccumulative potential        | Not established. |

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| <b>Iron (III) Oxide (1309-37-1)</b> |                                    |
|-------------------------------------|------------------------------------|
| Bioaccumulative potential           | No bioaccumulation data available. |

| <b>Manganese (7439-96-5)</b>  |                    |
|-------------------------------|--------------------|
| BCF fish 1                    | 81 (Pisces)        |
| BCF other aquatic organisms 1 | 300000 (Mollusca)  |
| BCF other aquatic organisms 2 | 125000 (Crustacea) |
| Bioaccumulative potential     | Not established.   |

| <b>Silicon, Crystalline (7440-21-3)</b> |                  |
|---|------------------|
| Bioaccumulative potential               | Not established. |

| <b>Chromium (7440-47-3)</b>   |                                       |
|-------------------------------|---------------------------------------|
| BCF fish 1                    | 0.0048 (Pisces; Dry weight)           |
| BCF other aquatic organisms 1 | 0.443 (Lamellibranchiata; Dry weight) |
| Bioaccumulative potential     | Bioaccumable.                         |

| <b>Talc (14807-96-6)</b>  |                  |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |

| <b>Dolomite (16389-88-1)</b> |                                    |
|------------------------------|------------------------------------|
| Bioaccumulative potential    | No bioaccumulation data available. |

| <b>Magnesium Carbonate (546-93-0)</b> |                                    |
|---------------------------------------|------------------------------------|
| Bioaccumulative potential             | No bioaccumulation data available. |

| <b>Quartz (14808-60-7)</b> |                                    |
|----------------------------|------------------------------------|
| Log Pow                    | Not applicable                     |
| Bioaccumulative potential  | No bioaccumulation data available. |

### 12.4. Mobility in soil

| <b>Carbon Black (1333-86-4)</b> |  |
|---------------------------------|--|
| Ecology - soil                  | Not toxic to plants. Not toxic to animals. |

| <b>Silicon, Crystalline (7440-21-3)</b> |                    |
|---|--------------------|
| Surface tension                         | 0.74 N/m (1410 °C) |

### 12.5. Other adverse effects

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose of contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations. . Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

US DOT (ground): Not Regulated,

ICAO/IATA (air): Not Regulated,

IMO/IMDG (water): Not Regulated,

### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not Regulated

### 14.3. Additional information

Other information : No supplementary information available.

### Overland transport

No additional information available

### Transport by sea

No additional information available



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### Air transport

No additional information available

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### MASTER STEEL REINFORCED EPOXY PUTTY

|                                     |  |
|-------------------------------------|--|
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard<br>Delayed (chronic) health hazard |
|-------------------------------------|--|

#### GMP-800 (Trade Secret)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 2,2-Bis-[4-(2,3-Epoxypropoxy) Phenyl] Propane, Polymer (25085-99-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

|                                     |                                 |
|-------------------------------------|---------------------------------|
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard |
|-------------------------------------|---------------------------------|

#### Electronic Grade Resin (28064-14-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

|                                     |                                 |
|-------------------------------------|---------------------------------|
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard |
|-------------------------------------|---------------------------------|

#### Epoxy White (025085-99-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. International regulations

#### CANADA

#### GMP-800 (Trade Secret)

Listed on the Canadian DSL (Domestic Substances List)

#### 2,2-Bis-[4-(2,3-Epoxypropoxy) Phenyl] Propane, Polymer (25085-99-8)

Listed on the Canadian DSL (Domestic Substances List)

|                      |   |
|----------------------|---|
| WHMIS Classification | Class D Division 2 Subdivision B - Toxic material causing other toxic effects |
|----------------------|---|

#### Electronic Grade Resin (28064-14-4)

Listed on the Canadian DSL (Domestic Substances List)

|                      |   |
|----------------------|---|
| WHMIS Classification | Class D Division 2 Subdivision B - Toxic material causing other toxic effects |
|----------------------|---|

#### EU-Regulations

#### GMP-800 (Trade Secret)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### 2,2-Bis-[4-(2,3-Epoxypropoxy) Phenyl] Propane, Polymer (25085-99-8)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### Electronic Grade Resin (28064-14-4)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Carc.Cat.1; R49

R43

R52/53

Full text of R-phrases: see section 16

### 15.2.2. National regulations

#### GMP-800 (Trade Secret)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the Korean ECL (Existing Chemicals List)

#### 2,2-Bis-[4-(2,3-Epoxypropoxy) Phenyl] Propane, Polymer (25085-99-8)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on KECL (Korean Existing Chemicals Inventory)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on NZIoC (New Zealand Inventory of Chemicals)

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### Electronic Grade Resin (28064-14-4)

Listed on the Korean ECL (Existing Chemicals List)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on the AICS (Australian Inventory of Chemical Substances)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on NZIoC (New Zealand Inventory of Chemicals)

### 15.3. US State regulations

No additional information available

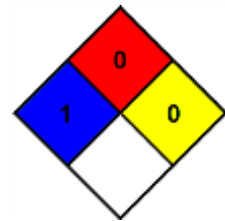
## SECTION 16: Other information

Other information : None.

Full text of H-phrases: see section 16:

|                     |                                      |
|---------------------|--------------------------------------|
| Acute Tox. 4 (Oral) | Acute toxicity (oral) Category 4     |
| Carc. 1A            | Carcinogenicity Category 1A          |
| Carc. 2             | Carcinogenicity Category 2           |
| Skin Irrit. 2       | Skin corrosion/irritation Category 2 |
| H302                | Harmful if swallowed                 |
| H315                | Causes skin irritation               |
| H350                | May cause cancer                     |
| H351                | Suspected of causing cancer          |

NFPA health hazard : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.  
NFPA fire hazard : 0 - Materials that will not burn.  
NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



### HMIS III Rating

Health : 1 Slight Hazard - Irritation or minor reversible injury possible  
Flammability : 0 Minimal Hazard  
Physical : 0 Minimal Hazard  
Personal Protection : B

SDS US (GHS HazCom 2012)

*The Supplier identified in Section 1 of this MSDS has evaluated this product and certifies it to be labeled and packaged in compliance with the applicable provisions of the Federal Hazardous Substance Act as stated in 16 CFR 1500 and enforced by the Consumer Product Safety Commission, and where applicable the products that require Child Resistant Closures are packaged in accordance with the Poison Prevention Packaging Act as stated in 16 CFR 1700 and enforced by the Consumer Product Safety Commission. All closures have been tested in accordance with the latest protocols. No other testing is required to certify compliance with the above. The date of manufacture is stamped on the product*

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