# SAFETY DATA SHEET

## 1. Identification

**Product identifier** **Polymeric Coated Steel Products**

**Other means of identification**

**SDS number** 9

**Product code** 1, 18, 38, 101, 102, 103, 120, 129, 159, 168, 601, 668, 722, 764, 782, 909, 968.

**Recommended use** Industrial use.

**Recommended restrictions** None known.

**Manufacturer / Importer / Supplier / Distributor information**

**Company name** Contech Engineered Solutions, LLC

**Address** 9025 Centre Pointe Drive West Chester, Ohio 45069, United States

**Contact person** Dan Moody

**Telephone number** 513-645-7055

**E-mail** dmoody@conteches.com

**Emergency telephone number** 1-800-255-3924

## 2. Hazard(s) identification

**Physical hazards** Not classified.

**Health hazards** Not classified.

**OSHA defined hazards** Not classified.

**Label elements**

**Hazard symbol** None.

**Signal word** None.

**Hazard statement** None.

**Precautionary statement**

**Prevention** Observe good industrial hygiene practices.

**Response** Wash hands after handling.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

**Hazard(s) not otherwise classified (HNOC)** Not classified.

**Supplemental information**

Not applicable.

## 3. Composition/information on ingredients

**Mixtures**

| Chemical name | CAS number | % |
|---|---|---|
| Iron | 7439-89-6 | 95 |
| Zinc | 7440-66-6 | 4 |

**Composition comments** All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## 4. First-aid measures

**Inhalation** If dust from the material is inhaled, remove the affected person immediately to fresh air. Call a physician if symptoms develop or persist.

**Skin contact** Contact with dust: Wash off with soap and water. Get medical attention if irritation develops and persists. Cuts or abrasions should be treated promptly with thorough cleansing of the affected area.

**Eye contact** Dust in the eyes: Do not rub eyes. Rinse with water. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists.

| | |
|---|---|
| **Ingestion** | Not likely, due to the form of the product.<br>Dust: Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. Get medical attention if symptoms occur. |
| **Most important symptoms/effects, acute and delayed** | Contact with dust: Irritation of eyes and mucous membranes. Irritation of nose and throat. |
| **Indication of immediate medical attention and special treatment needed** | Treat symptomatically. |
| **General information** | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. |

## 5. Fire-fighting measures

| | |
|---|---|
| **Suitable extinguishing media** | Special powder against metal fires. Dry sand. |
| **Unsuitable extinguishing media** | Do not use halogenated extinguishing agents or foam. |
| **Specific hazards arising from the chemical** | Dust may form explosive mixture with air. Fire or high temperatures create: Metal oxides. |
| **Special protective equipment and precautions for firefighters** | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| **Fire-fighting equipment/instructions** | Move container from fire area if it can be done without risk. |

## 6. Accidental release measures

| | |
|---|---|
| **Personal precautions, protective equipment and emergency procedures** | Avoid generation and spreading of dust. Ensure adequate ventilation. Avoid inhalation of dust and contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet. |
| **Methods and materials for containment and cleaning up** | The product is immiscible with water and will sediment in water systems. Allow spilled material to solidify and scrape up with shovels into a suitable container for recycle or disposal. Collect dust or particulates using a vacuum cleaner with a HEPA filter. |
| **Environmental precautions** | Prevent further leakage or spillage if safe to do so. |

## 7. Handling and storage

| | |
|---|---|
| **Precautions for safe handling** | Provide adequate ventilation. Avoid contact with sharp edges and hot surfaces. Avoid generation and spreading of dust. Avoid inhalation of dust and contact with skin and eyes. Avoid contact with molten material. Avoid inhalation of fumes from molten product. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. |
| **Conditions for safe storage, including any incompatibilities** | Keep dry. Store away from incompatible materials. |

## 8. Exposure controls/personal protection

| | |
|---|---|
| **Occupational exposure limits** | No exposure limits noted for ingredient(s). |
| **Biological limit values** | No biological exposure limits noted for the ingredient(s). |
| **Appropriate engineering controls** | Minimize dust generation and accumulation. Ventilate as needed to control airborne dust. Use explosion-proof ventilation equipment if airborne dust levels are high. The risk of inhalation of dust must be minimized as much as possible. |

**Individual protection measures, such as personal protective equipment**

| | |
|---|---|
| **Eye/face protection** | Wear dust-resistant safety goggles where there is danger of eye contact. |
| **Skin protection** | |
| **Hand protection** | Wear suitable protective gloves to prevent cuts and abrasions. When material is heated, wear gloves to protect against thermal burns. Suitable gloves can be recommended by the glove supplier. |
| **Other** | Wear suitable protective clothing. |
| **Respiratory protection** | Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Seek advice from local supervisor. |
| **Thermal hazards** | Wear appropriate thermal protective clothing, when necessary. |
| **General hygiene considerations** | Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. |

## 9. Physical and chemical properties

**Appearance**

| | |
|---|---|
| **Physical state** | Solid. |

| | |
|---|---|
| **Form** | Pipe. Sheets. Strips |
| **Color** | Black. |
| **Odor** | Odorless. |
| **Odor threshold** | Not applicable. |
| **pH** | Not applicable. |
| **Melting point/freezing point** | Not available. |
| **Initial boiling point and boiling range** | Not available. |
| **Flash point** | Not available. |
| **Evaporation rate** | Not applicable. |
| **Flammability (solid, gas)** | Not available. |
| **Upper/lower flammability or explosive limits** | |
| **Flammability limit - lower (%)** | Not available. |
| **Flammability limit - upper (%)** | Not available. |
| **Explosive limit - lower (%)** | Not available. |
| **Explosive limit - upper (%)** | Not available. |
| **Vapor pressure** | Not applicable. |
| **Vapor density** | Not applicable. |
| **Relative density** | 8 |
| **Solubility(ies)** | Insoluble in water. |
| **Partition coefficient (n-octanol/water)** | Not applicable. |
| **Auto-ignition temperature** | Not available. |
| **Decomposition temperature** | Not available. |
| **Viscosity** | Not applicable. |

## 10. Stability and reactivity

| | |
|---|---|
| **Reactivity** | The product is stable and non reactive under normal conditions of use, storage and transport. |
| **Chemical stability** | Massive metal is stable under normal conditions of use, storage and transport. |
| **Possibility of hazardous reactions** | Hazardous polymerization does not occur. Contact with acid liberates flammable gas. |
| **Conditions to avoid** | Contact with acids. Contact with incompatible materials. |
| **Incompatible materials** | Strong oxidizing agents. Strong mineral acids. |
| **Hazardous decomposition products** | Metal oxides. Hydrogen gas. |

## 11. Toxicological information

**Information on likely routes of exposure**

| | |
|---|---|
| **Ingestion** | Not relevant, due to the form of the product in its manufactured and shipped state. |
| **Inhalation** | Dust and fumes generated from the material can enter the body by inhalation. Dust may irritate respiratory system. Inhalation of powder or fumes may cause metal fume fever. |
| **Skin contact** | Under normal conditions of intended use, this material does not pose a risk to health. Dust may irritate skin. |
| **Eye contact** | Dust may irritate the eyes. |
| **Symptoms related to the physical, chemical and toxicological characteristics** | Dust: Irritation of eyes and mucous membranes. Irritation of nose and throat. |

**Information on toxicological effects**

| | |
|---|---|
| **Acute toxicity** | Inhalation of powder or fumes may cause metal fume fever. |

| Components | Species | Test Results |
|---|---|---|
| Iron (CAS 7439-89-6) | | |
| **Acute** | | |
| *Oral* | | |
| LD50 | Rat | 30 g/kg |

| | |
|---|---|
| **Skin corrosion/irritation** | May cause irritation through mechanical abrasion. |
| **Serious eye damage/eye irritation** | May cause irritation through mechanical abrasion. |
| **Respiratory sensitization** | Not classified. |
| **Skin sensitization** | Not a skin sensitizer. |
| **Germ cell mutagenicity** | Based on available data, the classification criteria are not met. |
| **Carcinogenicity** | Based on available data, the classification criteria are not met. |
| **Reproductive toxicity** | Based on available data, the classification criteria are not met. |
| **Specific target organ toxicity - single exposure** | Based on available data, the classification criteria are not met. |
| **Specific target organ toxicity - repeated exposure** | Based on available data, the classification criteria are not met. |
| **Aspiration hazard** | Not classified. |
| **Chronic effects** | Chronic inhalation of high concentrations of iron oxide fumes or dust may lead to benign pneumoconiosis (siderosis). May cause damage to the liver. |
| **Further information** | Heating above the melting point releases metallic oxides which may cause metal fume fever by inhalation. The symptoms are shivering, fever, malaise and muscular pain. |

## 12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

| Components | | Species | Test Results |
|---|---|---|---|
| Iron (CAS 7439-89-6) | | | |
| **Aquatic** | | | |
| Fish | LC50 | Channel catfish (Ictalurus punctatus) | > 500 mg/l, 96 hours |
| Zinc (CAS 7440-66-6) | | | |
| **Aquatic** | | | |
| Fish | LC50 | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 0.24 mg/l, 96 hours |

| | |
|---|---|
| **Persistence and degradability** | The product is not biodegradable. |
| **Bioaccumulative potential** | The product is not bioaccumulating. |
| **Mobility in soil** | No data available. |
| **Mobility in general** | No data available. |
| **Other adverse effects** | No data available. |

## 13. Disposal considerations

| | |
|---|---|
| **Disposal instructions** | Dispose of waste and residues in accordance with local authority requirements. |
| **Hazardous waste code** | Not regulated. |
| **Waste from residues / unused products** | Dispose of in accordance with local regulations. |
| **Contaminated packaging** | No special precautions. |

## 14. Transport information

**DOT**

Not regulated as a hazardous material by DOT.

**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.

## 15. Regulatory information

**US federal regulations**

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

| | |
|---|---|
| Zinc (CAS 7440-66-6) | LISTED |

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

| | |
|---|---|
| **Hazard categories** | Immediate Hazard - No<br>Delayed Hazard - No<br>Fire Hazard - No<br>Pressure Hazard - No<br>Reactivity Hazard - No |
| **SARA 302 Extremely hazardous substance** | No |
| **SARA 311/312 Hazardous chemical** | No |

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

| | |
|---|---|
| **Clean Water Act (CWA) Section 112(r) (40 CFR 68.130)** | Priority pollutant<br>Toxic pollutant |
| **Safe Drinking Water Act (SDWA)** | Not regulated. |
| **Food and Drug Administration (FDA)** | Not regulated. |

**US state regulations**

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

**US. Massachusetts RTK - Substance List**

Zinc (CAS 7440-66-6)

**US. New Jersey Worker and Community Right-to-Know Act**

| | |
|---|---|
| Zinc (CAS 7440-66-6) | 500 lbs |

**US. Pennsylvania RTK - Hazardous Substances**

Zinc (CAS 7440-66-6)

**US. Rhode Island RTK**

Zinc (CAS 7440-66-6)

**US. California Proposition 65**

**US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance**

Not listed.

**International Inventories**

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|---|---|---|
| Australia | Australian Inventory of Chemical Substances (AICS) | Yes |
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | Yes |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | Yes |
| Korea | Existing Chemicals List (ECL) | Yes |
| New Zealand | New Zealand Inventory | Yes |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | Yes |

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|---|---|---|
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | No |

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

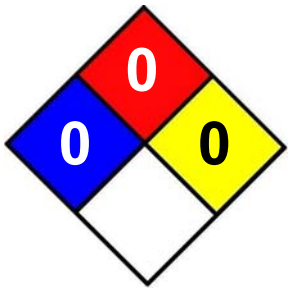
**Issue date** 08-August-2013

**Revision date** -

**Version #** 01

**Further information** NFPA Ratings: Health: 0. Flammability: 0. Physical hazard: 0.
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

**NFPA Ratings**




**List of abbreviations** NFPA: National Fire Protection Association.

**Disclaimer** This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.