



MECHANICAL ANCHORS - MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Retrofit Bolt, Blue Banger Hanger[®], Crimp Anchor, Drop-In Anchor, Easy-Set Expansion Anchor, Heli-Tie[®] Helical Wall Tie, Hollow Wall Anchor, IXP[™] Anchor, Lag Screw Expansion Shield, Machine Screw Anchor, Nailon Pin Drive Anchor, Plastic Screw Anchor, Sleeve-All[®] Anchor, Split Drive Anchor, Spring Wing Toggle Bolt, Strong-Bolt[™] Wedge Anchor, Strong-Bolt[™] 2 Wedge Anchor, Sure Wall Drywall Anchor/Toggle, Titen[®] Screw, Titen HD[®] Anchor, Torq-Cut[™] Anchor, Wedge-All[®] Anchor

Company: Simpson Strong-Tie Company Inc.
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For most current MSDS, please visit our web site at www.simpsonanchors.com

2. COMPOSITION / INFORMATION ON INGREDIENTS

Various Metals, Ferrous and Non-Ferrous Platings

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

None known.

POTENTIAL HEALTH EFFECTS

Eye Contact: Beware of airborne particles during installation.
Skin Contact: Sharp edges of anchors may cause abrasions or even cuts if not handled carefully.
Inhalation: Not considered an inhalation hazard.
Ingestion: Not considered to pose an ingestion hazard.
Systemic Effects: None known.

4. FIRST AID MEASURES

Inhalation: For over-exposure to airborne fumes and particulate, remove exposed person to fresh air. If breathing is difficult or has stopped, administer artificial respiration or oxygen as indicated. Seek medical attention promptly.

Eye Contact: Flush with large amounts of clean water to remove particles. Seek medical attention if irritation persists.

Skin Contact: Remove contaminated clothing. Wash affected areas with soap or mild detergent and water. If thermal burn has occurred, flush area with cold water and seek medical attention. If a persistent rash or irritation occurs, seek medical attention.

Ingestion: Not a probable route of industrial exposure. However, if ingested, seek medical attention immediately.

5. FIRE FIGHTING MEASURES

Not applicable.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Not Applicable.
Environmental Precautions: Not Applicable.
Clean-up Methods: Not Applicable.

7. HANDLING AND STORAGE

- Handling Precautions:** Operations with the potential for generating high concentrations of airborne particulates should be evaluated and controlled as necessary. Practice good housekeeping. Avoid breathing metal fumes and/or dust.
- Storage Requirements:** Store away from acids and incompatible materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Engineering Controls:** Use controls as appropriate to minimize exposure to metal fumes and dusts during handling operations.
- Protective Measure:** Protective coatings are used on most metal fasteners. Typically this will be commercial zinc, zinc plating with chromate conversion coating, hot dipped galvanizing, ceramic plating, or mechanically galvanized plating. This information should be considered when evaluating employee personal protective equipment and health risks during normal use.
- Eye Protection:** Avoid contact with eyes. Safety glasses required.
- Skin and Hand Protection:** Gloves recommended.
- Ingestion:** Do not ingest or place any metal fasteners in mouth.
- Respirator Protection:** Not required in well ventilated areas.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Form:** Solid
- Appearance:** Various diameters and lengths
- Odor:** None
- Boiling Point:** Not applicable
- Melting Point:** 2600-2700 °F
- Vapor Pressure:** Not applicable
- Vapor Density:** Not applicable
- Solubility In Water:** Insoluble

10. STABILITY AND REACTIVITY

- Stability:** Stable
- Incompatibility:** Acid
- Hazardous Decomposition Products:** Thermal oxidative decomposition of galvanized steel products can produce fumes containing oxides of zinc, iron and manganese as well as other elements.
- Hazardous Polymerization:** Will not occur.

11. TOXICOLOGICAL INFORMATION

- Acute Toxicity:**
- Oral (LD₅₀, Rat):** Not established.
- Dermal (LD₅₀, Rabbit):** Not established.
- Inhalation (LC₅₀, Rat):** Not established.

12. ECOLOGICAL INFORMATION

- Ecotoxicity:** This product has not been evaluated.
- Chemical Fate Information:** No data available.

13. DISPOSAL CONSIDERATIONS

- Disposal:** This material is not a hazardous waste by RCRA criteria (40 CFR 261). Steel scrap should be recycled whenever possible.
- Container Cleaning and Disposal:** Follow applicable Federal, state and local regulations. Observe safe handling precautions.

14. TRANSPORTATION INFORMATION

DOT/TDG: Not Regulated For Transport.
IATA: Not Regulated For Transport.
IMO: Not Regulated For Transport.

15. REGULATORY INFORMATION

US FEDERAL REGULATIONS:

EPA Reportable Quantities:

Clean Water Act (40CFR Section 112): None required.
CERCLA Hazardous Substance (40CFR Part 302, Table 302.4): None required.
EPCRA Extreme Hazardous Substance (40CFR Section 302 Part 355): None required.

Toxic Chemical Release Inventory (TRI) Reporting - (SARA Title III Section 313 (40 CFR 372)

Component(s) above 'de minimus' level: Manganese and Zinc are subject to SARA 313 reporting requirements.

SARA Title III Hazard Classes (40CFR 370 Sections 311 and 312):

Fire Hazard: No
Reactive Hazard: No
Release of Pressure: No
Acute Health Hazard: Yes
Chronic Health Hazard: Yes

US STATE REGULATIONS:

California - "Safe Drinking Water and Toxic Enforcement Act" (Proposition 65):

This product may contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

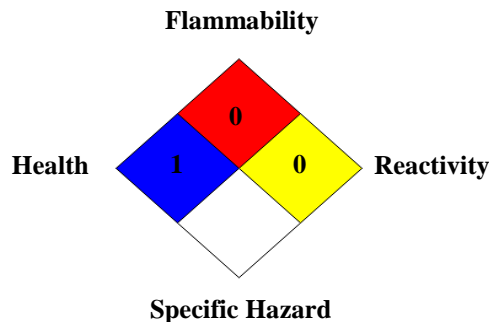
16. OTHER INFORMATION

HAZARD RATINGS:

Hazardous Material Information System (HMIS)

Health	1*
Flammability	0
Physical Hazard	0
Personal Protection	B

National Fire Protection Association (NFPA)



HMIS/NFPA Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme
Protective Equipment: (B) - Safety glasses, gloves

* Denotes possible chronic hazard if airborne dusts or fumes are generated.

This Material Safety Data Sheet (MSDS) is prepared by Simpson Strong-Tie Co. in compliance with the requirements of OSHA 29 CFR Part 1910.1200. The information it contains is offered in good faith as accurate as of the date of this MSDS. This MSDS is provided solely for the purpose of conveying health, safety, and environmental information. No warranty, expressed or implied, is given. Health and Safety precautions may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations.

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