



## MATERIAL SAFETY DATA SHEET

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### Section 1. Product and Company Identification

#### STEEL

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**Product Identification:** ASTM Rebar, Designation 3, 4, 5 and 6.  
**Date of MSDS:** 01 / 12 / 2012      **Technical Review Date:** 30/11/2015

#### *Manufacturer's Information*

**Manufacturer's Name:** DEACERO S.A DE C.V.  
**Manufacturer's Address:** Lazaro Cardenas 2333 Valle Oriente, San Pedro Garza Garcia, Nuevo Leon, Zip Code 66269  
**Manufacturer's Address 2:** Saltillo-Monterrey Rd. Km 8.5 Ramos Arizpe, Coahuila  
**Manufacturer's Address 3:** Panamericana Rd. Celaya-Salamanca Km 64.8 Villagran, Guanajuato  
**Manufacturer's Address 4:** Carretera libre, Libramiento ojo caliente Santa Cruz, kx 3.8 Ramos Ariezpe, Coahila  
**Phone for General Information:** +52 81 8368 1100  
**Emergency Phone:** +52 81 5000 1087  
**MSDS Preparer's Name:** Maria Laura Gutierrez

#### *Preparer Information*

**Preparer's Name:** DEACERO S.A DE C.V  
**Assigned Individual:** Y

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### Section 2. Product and Company Identification

#### STEEL

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- Ingredient Name: STEEL
- Ingredient CAS Number: Ingredient CAS Code: 7439-89-6

|               |            |
|---------------|------------|
| - Iron        | 97-99%     |
| - Carbon      | 0.01-1.10% |
| - Manganese   | 0.05-1.65  |
| - Phosphorous | 0.04% max  |
| - Sulphur     | 0.05% max  |
| - Silicon     | 0.09% max  |
| - Lead        | 0.03% max  |
| - Vanadium    | 0.05% max  |
| - Tellurium   | 0.05 max   |
| - Nickel      | 0.35% max  |
| - Chromium    | 0.35% max  |
| - Molybdenum  | 0.06% max  |
| - Bismuth     | 0.003% max |
| - Copper      | 0.50 max   |
| - Aluminum    | 0.10 max   |



**Other REC Limits:** NOT KNOWN  
**OSHA PEL:** NOT KNOWN      **OSHA PEL Code:** M  
**ACGIH TLV:** NOT KNOWN **ACGIH TLV Code:** M

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**Section 3. Hazards Identification, Including Emergency Overview**  
**STEEL**

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**Health Hazards Acute & Chronic:** SEE SIGNS AND SYMPTOMS OF OVEREXPOSURE  
**Signs & Symptoms of Overexposure:** EYES/INHALATION: DUST MAY CAUSE IRRITATION OF EYES, NOSE OR THROAT, LEAVE A METALLIC TASTE IN THE MOUTH.  
**Medical Conditions Aggravated by Exposure:** NOT KNOWN  
**LD50 LC50 Mixture:** NOT KNOWN  
**Route of Entry Indicators:**  
    **Inhalation:** YES  
    **Skin:** NO  
    **Ingestion:** NO  
**Carcinogenicity Indicators:**  
    **NTP:** NO  
    **IARC:** NO  
    **OSHA:** NO  
**Carcinogenicity Explanation:** NONE

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**Section 4. First Aid Measures**  
**STEEL**

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**First Aid**  
EYES: FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES (FP A).  
INHALATION: REMOVE TO FRESH AIR, APPLY OXIGEN AND SEEK MEDICAL ASSISTANT.

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**Section 5. Fire Fighting Measures**  
**STEEL**

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**Fire Fighting Procedures:** USE SELF-CONTAINED BREATHING EQUIPMENT FOR PROTECTION AGAINST DEGRATATION PRODUCTS AND FIRE FIGHTING TECHNIQUE OR AGENT (S) APPLICABLE TO SORROUNDING MATERIALS.  
**Unusual Fire or Explosion Hazard:** NOT KNOWN  
**Extinguishing Media:** USE APPLICABLE METHODS TO SORROUNDING AREA.  
**Flash Point:** **Flash Point Text:** NOT APPLICABLE  
**Auto ignition Temperature:**  
    **Auto ignition Temperature Text:** N/A  
    **Lower Limit (s):** N/A  
    **Upper Limit (s):** N/A



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**Section 6. Accident Release Measures**  
**STEEL**

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**Spill Release Procedures:** N/A

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**Section 7. Handling and Storage**  
**STEEL**

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**Handling and Storage Precaution:** N/A  
**Other Precautions:** N/A

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**Section 8. Exposure Controls & Personal Protection**  
**STEEL**

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**Respiratory Protection:** IF CONTAMINANTS EXCEED PRESCRIBED LIMITS, PROVIDE ADEQUATE RESPIRATORY PROTECTION, CONSULT REGIONAL CODES/CODE OF FEDERAL REGS, TITLE 29, PART 1910.252 WELDING, CUTTING & BRAZING, 1910.134 RESP PROT & 1910 SUBPART Z, TOXIC & HAZARDOUS SUBSTANCES.

**Ventilation:** PROVIDE LOCAL EXHAUST VENTILATION IF ATMOSPHERIC LEVELS OF CONTAMINANTS EXCEED PRESCRIBED LIMITS.

**Protective globes:** NOT KNOWN

Eye Protection: CHEMICAL SAFETY GOGGLES (FP A)

Other Protective Equipment: NOT KNOWN

Work Hygienic Practices: NOT KNOWN

Supplemental Health & Safety Information: CONTRACT #DAAE07-87-V-1838. PART OF DRIVESHAFT ASSEMBLY  
MELTING POINT >2800F, 1540 C

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**Section 9. Physical and Chemical Properties**  
**STEEL**

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**NRC/State License Number:** N/R

**Net Property Weight for Ammo:** N/R

**Boiling Point: Boiling Point Text:** NOT KNOWN

**Melting/Freezing Point: Melting/Freezing Text:** SEE SUPP

**Decomposition Point: Decomposition Text:** NOT KNOWN

**Vapor Pressure:** N/A **Vapor Density:** N/A

**Percent Volatile Organic Content:**

**Specific Gravity:** >7.0 (WATER=1)

**Volatile Organic Content Pounds per Gallon:** pH: N/K

**Volatile Organic Content Grams per Liter:**

**Viscosity:** N/P

**Evaporation Weight and Reference:** N/A

**Solubility in Water:** NEGLIGIBLE

**Appearance and Odor:** GRAYISH TO SILVERY, ODORLESS SHEET, STRIP, PLATE, BAR OR STRUCTURAL SHAPES

**Percent Volatiles per Volume:** N/A

**Corrosion Rate:** N/K



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**Section 10. Stability & Reactivity Data**  
**STEEL**

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**Stability Indicator:** YES

**Materials to Avoid:** NONE

**Stability Condition to Avoid:** ELEVATED TEMPERATURES

**Hazardous Decomposition Products:** AT ELEVATED 1600 °C TEMPERATURES MAY LIBERATE METAL FUMES, METAL OXIDES OR OTHER OXIDES.

**Hazardous Polymerization Indicator:** N/P

**Conditions to Avoid Polymerization:** NOT KNOWN

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**Section 11. Toxicological Information**  
**STEEL**

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**Toxicological Information:** N/P

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**Section 12. Ecological Information**  
**STEEL**

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**Ecological Information:** NOT HAZARDOUS

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**Section 13. Disposal Considerations**  
**STEEL**

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**Waste Disposal Methods:** DISPOSAL MUST BE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS COORDINATE WITH SUPPORTING INSTALLATION AND OR WITH ENVIRONMENTAL MINISTRY PRIOR TO DISPOSAL (FP A) RECLAIM FOR REUSE.

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**Section 14. MSDS Transport Information**  
**STEEL**

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**Transport Information:** N/P

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**Section 15. Regulatory Information**  
**STEEL**

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**SARA Title III Information:** N/P

**Federal Regulatory Information:** N/P

**State Regulatory Information:** N/P