Basekim
Chemical Production Co.Ltd.

Material Safety Data Sheet (MSDS)

Product: Steel Billet (Grades 3SP & 5SP)
Standard: GOST 380-2005 – Steel for Profiles

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1. Identification of the Substance/Preparation and Company

- **Product Name:** Steel Billet (3SP & 5SP)
- **Synonyms:** Carbon Steel Billet, Structural Billet
- **Intended Use:** Raw material for rolling into rebar, beams, channels, and structural profiles.
- **Company Identification:**
  Basekim Kimyasal Ürünler Ltd.
  Turan Güneş Blv. Ilkbahar Mah. Sinpaş Altınoran Tower 2, Floor 1, Unit 46
  Ankara, Turkey
- **Emergency Contact:**
  - Logistics: +90 312 514 7055
  - Health/Safety: +90 312 514 7081

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2. Hazards Identification

- **Physical State:** Solid metallic billet
- **Hazard Classification:** Not classified as hazardous under GHS (solid form)
- **Main Hazards:**
  - Sharp edges can cause cuts.
  - Heavy billets may cause crush injuries.

- Welding, cutting, or grinding may produce fumes and dust that can irritate eyes, skin, or respiratory tract.

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3. Composition / Information on Ingredients

Component	3SP (%)	5SP (%)
Iron (Fe)	Balance (~97–98)	Balance (~97–98)
Carbon (C)	0.14 – 0.22	0.23 – 0.28
Manganese (Mn)	0.40 – 0.65	0.40 – 0.70
Silicon (Si)	≤ 0.30	≤ 0.30
Phosphorus (P)	≤ 0.04	≤ 0.04
Sulfur (S)	≤ 0.04	≤ 0.04

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4. First Aid Measures

- **Inhalation (fumes/dust):** Move to fresh air, seek medical help if symptoms persist.
- **Skin (cuts):** Clean with water, disinfect, and bandage.
- **Eye Contact (dust):** Rinse with water for several minutes, seek help if irritation continues.
- **Ingestion:** Not applicable.

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5. Fire Fighting Measures

- **Flammability:** Non-flammable
- **Suitable Extinguishing Media:** Any for surrounding fire
- **Hazards in Fire:** Metal oxides and fumes possible if overheated

- **PPE:** Firefighters should wear breathing apparatus when exposed to fumes

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6. Accidental Release Measures

- Not applicable (solid product)
- Handle with lifting equipment to prevent injury

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7. Handling and Storage

- **Handling:**
  - Wear gloves, safety boots, and avoid sharp edges
  - Do not stand under suspended loads
- **Storage:**
  - Stack safely with supports
  - Keep dry to reduce surface rust

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8. Exposure Controls / Personal Protection

- **Exposure Limits:** Not applicable for solid billets
- **PPE Required:**
  - Gloves and protective clothing
  - Safety glasses for cutting/welding
  - Respiratory protection if fumes/dust present

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9. Physical and Chemical Properties

- **Appearance:** Solid metallic billet, gray surface
- **Density:** ~7.85 g/cm³
- **Melting Point:** ~1535°C
- **Solubility:** Insoluble in water
- **Odor:** None

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10. Stability and Reactivity

- **Stability:** Stable under normal conditions
- **Incompatibility:** Strong acids/oxidizers
- **Decomposition:** Iron oxides, metallic fumes under extreme heat

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11. Toxicological Information

- Non-toxic in solid form
- Dust/fumes from cutting or welding may cause irritation to eyes, skin, and lungs
- Prolonged exposure to welding fumes may cause chronic effects

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12. Ecological Information

- Not hazardous in solid form
- Non-biodegradable, but recyclable 100%

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13. Disposal Considerations

- Recycle billets and scrap through approved recycling facilities
- Dispose of according to local laws

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14. Transport Information

- **UN Number:** Not regulated
- **Hazard Class:** Not dangerous goods
- **Shipping:** Secure billets properly due to heavy weight

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15. Regulatory Information

- Not classified as hazardous substance under OSHA/GHS
- Regulated as an article (solid product)

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16. Other Information

- This MSDS covers **Steel Billets 3SP and 5SP** as their safety profile is identical.
- Document intended for safety and compliance in handling, storage, and transport.

İLKBAHAR MAH. GALİP ERDEM CD.FAHREDDIN PASA (613) SOKAK, NO.6, ÇANKAYA ANKARA/TURKEY
00903125147074
00903125147081
info@basekim.com
www.basekim.com