

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 09/27/2011

Reviewed on 09/27/2011

1 Identification of substance

- **Product details**
- **Trade name:** Ferro Tuff™ Non Rust Natural
- **Article number:** 67567
- **Application of the substance / the preparation**
- **Manufacturer/Supplier:**
Dayton Superior
4226 Kansas Avenue
Kansas City, KS 66106

Tel.: (866) 329-8724

Emergency Telephone Number: Use only in the event of an emergency involving a spill, leak, fire, exposure, or accident involving chemicals. Within the U.S., Canada, or the U.S. Virgin Islands, call ChemTrec at (800) 424-9300, 24 hours a day. Or, outside these areas, call (703) 527-3887. Collect calls are accepted.

- **Information department:** Environmental, Health, and Safety department.

2 Composition/Data on components

- **Chemical characterization**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

65997-15-1	Cement, portland, chemicals	25-50%
13463-67-7	titanium dioxide	10-25%
1309-37-1	diiron trioxide	10-25%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

- **Hazard description:** Not applicable.
- **Information pertaining to particular dangers for man and environment:**
The product has to be labelled due to internationally acknowledged calculation procedures using the latest valid versions.
- **Classification system:**
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**

HEALTH	1	Health = 1
FIRE	0	Fire = 0
PHYSICAL HAZARD	0	Reactivity = 0

4 First aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** If skin irritation continues, consult a doctor.
- **After eye contact:** Rinse opened eye for several minutes under running water.

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· **After swallowing:** Seek medical treatment.

5 Fire fighting measures

- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:**
Because fire may produce thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:** No special measures required.
- **Measures for cleaning/collecting:** Ensure adequate ventilation.

7 Handling and storage

- **Handling:**
- **Information for safe handling:**
Wear appropriate personal protective clothing to prevent eye and skin contact. Avoid breathing vapors or mists of this product. Use with adequate ventilation. Do not take internally.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

- **Components with limit values that require monitoring at the workplace:**

65997-15-1 Cement, portland, chemicals

PEL	50 mppcf or 15*;5** mg/m ³ *Total dust **Respirable fraction
REL	10*; 5** mg/m ³ *Total dust **Respirable fraction
TLV	10 mg/m ³ (e)

13463-67-7 titanium dioxide

PEL	15* mg/m ³ *Total dust
REL	Lowest feasible conc.; (LOQ 0.2 mg/m ³)
TLV	10 mg/m ³

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1309-37-1 diiron trioxide

PEL	10 mg/m ³ Fume (Fe ₂ O ₃)
REL	5 mg/m ³ as Fe; Iron dust & fume (Fe ₂ O ₃)
TLV	5 mg/m ³ as Fe (Iron oxide dust & fume (Fe ₂ O ₃))

61790-53-2 Diatomaceous earth (Silica-Amorphous)

PEL	Short-term value: 80 mg/m ³ as % SiO ₂
REL	6 mg/m ³
TLV	10 I mg/m ³ 3 R; (e)

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes.
- Avoid contact with the eyes and skin.

· **Breathing equipment:** Suitable respiratory protective device recommended.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Wear appropriate eye protection to prevent eye contact.

9 Physical and chemical properties

· **General Information**

Form:	Powder
Color:	According to product specification
Odor:	Characteristic

· **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Undetermined.

· **Flash point:** Not applicable.

· **Auto igniting:** Product is not selfigniting.

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· **Danger of explosion:** Product does not present an explosion hazard.

· **Density at 20°C (68°F):** 6.700 g/cm³

· **Solubility in / Miscibility with Water:** Insoluble.

· **Solvent content:**
 Organic solvents: 0.0 %

· **Solids content:** 100.0 %

· **Volatile Organic Compounds:** Not determined

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous products of decomposition:** No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect known.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
 The product shows the following dangers according to internally approved calculation methods for preparations:
 Irritant

12 Ecological information

- **General notes:** Water hazard class 1 (Self-assessment): slightly hazardous for water

13 Disposal considerations

- **Product:**
- **Recommendation:**
 It is the generator's responsibility to determine if the waste meets applicable definitions of hazardous waste. State and local regulations may differ from federal disposal regulations. Dispose of waste material according to local, state, federal, and provincial environmental regulations.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to Federal, State, and Local regulations.

14 Transport information

- **DOT regulations:** Not Regulated
- **Hazard class:** N/A
- **Limited Quantity Exemption:** No Limited Quantity exemption applies for this shipping class.

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· U.S. Domestic Ground Shipments:	Same as listed for Standard Shipments above.
· U.S. Domestic Ground Non-Bulk (119 gal or less per container) Shipments:	Same as listed for Standard Shipments above.
· Emergency Response Guide (ERG) Number:	Not determine
· Land transport ADR/RID (cross-border):	Not Regulated
· ADR/RID class:	N/A
· Maritime transport IMDG:	Not Regulated
· IMDG Class:	N/A
· Marine pollutant:	No
· Air transport ICAO-TI and IATA-DGR:	Not Regulated
· ICAO/IATA Class:	N/A

15 Regulations

· SARA

· Section 355 (extremely hazardous substances):

None of the ingredient is listed.

· Section 313 (Specific toxic chemical listings):

This product may contain 1 or more toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR part 372. If so, the chemicals are listed below.

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65

· Chemicals known to the State of California (Prop. 65) to cause cancer:

14808-60-7 Quartz (SiO₂)

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Cancerogenity categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· IARC (International Agency for Research on Cancer)

13463-67-7	titanium dioxide	3
1309-37-1	diiron trioxide	3
61790-53-2	Diatomaceous earth (Silica-Amorphous)	3
14808-60-7	Quartz (SiO ₂)	1

· NTP (National Toxicology Program)

14808-60-7	Quartz (SiO ₂)	K
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· TLV (Threshold Limit Value established by ACGIH)		
13463-67-7	titanium dioxide	A4
1309-37-1	diiron trioxide	A4
14808-60-7	Quartz (SiO ₂)	A2
· MAK (German Maximum Workplace Concentration)		
14808-60-7	Quartz (SiO ₂)	1
· NIOSH-Ca (National Institute for Occupational Safety and Health)		
13463-67-7	titanium dioxide	
14808-60-7	Quartz (SiO ₂)	
· OSHA-Ca (Occupational Safety & Health Administration)		
None of the ingredients is listed.		

· **Product related hazard informations:**

Observe the general safety regulations when handling chemicals.

The product has been classified and marked in accordance with directives on hazardous materials.

· **Hazard symbols:** Xi Irritant

· **Risk phrases:** 36/37 Irritating to eyes and respiratory system.

· **Safety phrases:**

2 Keep out of the reach of children.

8 Keep container dry.

36/39 Wear suitable protective clothing and eye/face protection.

· **National regulations:**

· **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing MSDS:** Environmental, Health & Safety Department

· **Contact:** Environmental, Health & Safety Manager