

# SAFETY DATA SHEET

**PLANT TUFF**

Infosafe No.: LQ49L  
ISSUED Date : 25/03/2020  
ISSUED by: AUSTRALIAN STEEL MILL  
SERVICES PTY LIMITED

## 1. IDENTIFICATION

### GHS Product Identifier

PLANT TUFF

### Product Code

SFS300

### Company Name

AUSTRALIAN STEEL MILL SERVICES PTY LIMITED

### Address

Springhill Road Port Kembla  
NSW 2505 AUSTRALIA

### Telephone/Fax Number

Tel: 02 4255 1100

### Emergency phone number

1800 638 556

### Recommended use of the chemical and restrictions on use

Agricultural applications (Soil conditioner/mineraliser).

## 2. HAZARD IDENTIFICATION

### GHS classification of the substance/mixture

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety Regulations, Australia.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

STOT Repeated Exposure: Category 2

### Signal Word (s)

WARNING

### Hazard Statement (s)

H373 May cause damage to organs through prolonged or repeated exposure by oral, by inhalation.

### Pictogram (s)

Health hazard



### Precautionary statement – Prevention

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

### Precautionary statement – Response

P314 Get medical advice/attention if you feel unwell.

### Precautionary statement – Disposal

P501 Dispose of contents/container to an approved waste disposal plant.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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#### Ingredients

Name	CAS	Proportion
Calcium oxide	1305-78-8	30-60 %
Iron (II) oxide	1345-25-1	10-30 %
Magnesium oxide	1309-48-4	5-20 %
Silica, vitreous	60676-86-0	5-20 %
Manganese oxide	1344-43-0	3-<10 %
Vanadium oxide	11099-11-9	0-2 %
Aluminium oxide	1344-28-1	0.5-5 %
Vanadium oxide (VO2)	12036-21-4	0.5-1 %
Vanadium pentoxide (V2O5)	1314-62-1	0.1-0.3 %
Sulphur	7704-34-9	0-0.2 %
Ingredients determined not to be hazardous.		Balance

#### Other Information

This product also contains small amounts of Titanium dioxide, Phosphorous oxide, Sodium oxide, Potassium oxide, Chromium oxide and Free lime.

Quartz was not detected at the limit of detection of <0.5 % (w/w)

Cristobalite was not detected at the limit of detection 1% (w/w)

### 4. FIRST-AID MEASURES

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#### Inhalation

If inhaled, remove affected person from contaminated area. Apply artificial respiration if not breathing. Seek medical attention.

#### Ingestion

Do not induce vomiting. Wash out mouth thoroughly with water. Seek immediate medical attention.

#### Skin

Wash affected area thoroughly with soap and water. If symptoms develop seek medical attention.

#### Eye contact

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. If symptoms develop and/or persist seek medical attention.

#### First Aid Facilities

Eyewash and normal washroom facilities.

#### Advice to Doctor

Treat symptomatically.

#### Other Information

For advice in an emergency, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor at once.

### 5. FIRE-FIGHTING MEASURES

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#### Suitable Extinguishing Media

Use appropriate fire extinguisher for surrounding environment.

#### Hazards from Combustion Products

Under fire conditions this product may emit toxic and/or irritating fumes and gases.

#### Specific Hazards Arising From The Chemical

Non-combustible solid.

### **Decomposition Temperature**

Not available

### **Precautions in connection with Fire**

Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Fight fire from safe location.

## **6. ACCIDENTAL RELEASE MEASURES**

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### **Emergency Procedures**

Increase ventilation. Evacuate all unprotected personnel. Wear sufficient respiratory protection and full protective clothing to prevent exposure. Sweep up material avoiding dust generation or dampen spilled material with water to avoid airborne dust, then transfer material to a suitable container. Wash surfaces well with soap and water. Seal all wastes in labelled containers for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

## **7. HANDLING AND STORAGE**

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### **Precautions for Safe Handling**

Avoid inhalation of dust, and skin or eye contact. Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of dust in the work atmosphere. Maintain high standards of personal hygiene i.e. Washing hands prior to eating, drinking, smoking or using toilet facilities.

### **Conditions for safe storage, including any incompatibilities**

Store in a cool, dry, well-ventilated area, out of direct sunlight and moisture. Store in suitable, labelled containers. Keep containers tightly closed. Store away from incompatible materials. Ensure that storage conditions comply with applicable local and national regulations.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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### **Occupational exposure limit values**

No exposure standards have been established for this material. However, the available exposure limits for ingredients are listed below:

Calcium oxide

TWA: 2 mg/m<sup>3</sup>

Iron oxide (fume)

TWA: 5 mg/m<sup>3</sup>

Magnesium oxide (fume)

TWA: 10 mg/m<sup>3</sup>

Manganese oxide (dust & compounds, as Mn)

TWA: 1 mg/m<sup>3</sup>

Aluminium oxide

TWA: 10 mg/m<sup>3</sup>

Vanadium (as V<sub>2</sub>O<sub>5</sub>), (respirable dust & fume)

TWA: 0.05 mg/m<sup>3</sup>

Advisory carcinogen category: Carc. 2 (Suspected human carcinogen)

Dust (not otherwise specified)

TWA: 10 mg/m<sup>3</sup>

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

Source: Safe Work Australia

### Biological Limit Values

No biological limits allocated.

### Appropriate Engineering Controls

This substance is hazardous and should be used with a local exhaust ventilation system, drawing solid/dust away from workers' breathing zone. If the engineering controls are not sufficient to maintain concentrations of particulates below the exposure standards, suitable respiratory protection must be worn.

### Respiratory Protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable dust/particulate filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements.

Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

### Eye Protection

Safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform to relevant regulations.

Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 (series) - Eye Protectors for Industrial Applications.

### Hand Protection

Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances. i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations.

Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

### Body Protection

Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Properties	Description	Properties	Description
Form	Solid	Appearance	Fine grained sand-like material
Colour	Black	Odour	No discernible odour
Decomposition Temperature	Not available	Melting Point	Not available
Boiling Point	Not available	Solubility in Water	Not available
Specific Gravity	2.5-3.5	pH	11-13 (20% aqueous solution)
Vapour Pressure	Not available	Vapour Density (Air=1)	Not available
Evaporation Rate	Not available	Odour Threshold	Not available
Viscosity	Not available	Partition Coefficient: n-octanol/water	Not available
Flash Point	Not applicable	Flammability	Non-combustible
Auto-Ignition Temperature	Not available	Explosion Limit - Upper	Not applicable
Explosion Limit - Lower	Not applicable		

## 10. STABILITY AND REACTIVITY

### Reactivity

Reacts with incompatible materials.

### Chemical Stability

Stable under normal conditions of storage and handling.

**Conditions to Avoid**

Extremes of temperature and direct sunlight. Dust accumulation.

**Incompatible materials**

Not available

**Hazardous Decomposition Products**

Thermal decomposition may result in the release of toxic and/or irritating fumes.

**Possibility of hazardous reactions**

Not available

**Hazardous Polymerization**

Will not occur.

## 11. TOXICOLOGICAL INFORMATION

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**Toxicology Information**

No toxicity data is available for this product.

**Ingestion**

Ingestion of this product may irritate the gastric tract causing nausea and vomiting.

**Inhalation**

Inhalation of dusts may irritate the respiratory system.

**Skin**

Skin contact may cause mechanical irritation resulting in redness and itching. Prolonged or repeated contact with the skin in the absence of proper hygiene, may cause dryness and dermatitis.

**Eye**

Eye contact may cause mechanical irritation. May result in mild abrasion.

**Respiratory sensitisation**

Not expected to be a respiratory sensitiser.

**Skin Sensitisation**

Not expected to be a skin sensitiser.

**Germ cell mutagenicity**

Not considered to be a mutagenic hazard.

**Carcinogenicity**

Not considered to be a carcinogenic hazard.

Vanadium pentoxide is listed as a Group 2B: Possibly carcinogenic to humans according to International Agency for Research on Cancer (IARC).

**Reproductive Toxicity**

Not considered to be toxic to reproduction.

**STOT-single exposure**

Not expected to cause toxicity to a specific target organ.

**STOT-repeated exposure**

May cause damage to organs through prolonged or repeated exposure by oral, by inhalation.

**Aspiration Hazard**

Not expected to be an aspiration hazard.

## 12. ECOLOGICAL INFORMATION

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**Ecotoxicity**

No ecological data available for this product.

**Persistence and degradability**

Not available

**Mobility**

Not available

**Bioaccumulative Potential**

Not available

**Other Adverse Effects**

Not available

**Environmental Protection**

Prevent this material entering waterways, drains and sewers.

## 13. DISPOSAL CONSIDERATIONS

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**Disposal considerations**

The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations.

## 14. TRANSPORT INFORMATION

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**Transport Information**

Road and Rail Transport (ADG Code):

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code) (7th edition).

Marine Transport (IMO/IMDG):

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Air Transport (ICAO/IATA):

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

**U.N. Number**

None Allocated

**UN proper shipping name**

None Allocated

**Transport hazard class(es)**

None Allocated

**IMDG Marine pollutant**

No

**Transport in Bulk**

Not available

**Special Precautions for User**

Not available

## 15. REGULATORY INFORMATION

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**Regulatory information**

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety Regulations, Australia.

Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

**Poisons Schedule**

Not Scheduled

## 16. OTHER INFORMATION

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**Date of preparation or last revision of SDS**

SDS Amended April 2020

**1. IDENTIFICATION**

SDS Reviewed: March 2020 Supersedes: February 2015

**References**

- Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.
  
- Standard for the Uniform Scheduling of Medicines and Poisons.
  
- Australian Code for the Transport of Dangerous Goods by Road & Rail.
  
- Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
  
- Workplace exposure standards for airborne contaminants.
  
- Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH).
  
- Globally Harmonised System of Classification and Labelling of Chemicals.
  
- Code of Practice: Managing Noise and Preventing Hearing Loss at Work.

**END OF SDS**

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