



# Material Safety Data Sheet

## Uncontrolled Copy

### TUBELINE BLACK, PAINTED, CLEAR COAT AND NOP HOLLOW SECTIONS

**Infosafe No.** MAD32      **Issue Date** May 2006      **Status** ISSUED by ONESTNPM

#### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name** TUBELINE BLACK, PAINTED, CLEAR COAT AND NOP HOLLOW SECTIONS

**Product Code**

**Company Name** OneSteel Trading Pty Ltd - Newcastle Pipe Mills (ABN 50 007 519 646)

**Address** PO Box 156 Newcastle  
NSW 2300

**Emergency Tel.** 02 4935 5739

**Telephone/Fax Number** Tel: 02 4935 5118  
Fax: 02 4935 5115

**Recommended Use** Fluid conveyance, structural, machinery, construction applications etc..  
COATINGS USED: Red or blue pigmented or clear paint, or no coating.

| Other Names | Name  | Product Code |
|-------------|---|--------------|
|             | TUBELINE CHS, TUBELINE RHS, TUBELINE SHS, SCAFFOLDING CHS, SHOULDERED CHS, RAIL, SILO SECTION, GROOVED CHS, HIGH SPEED CONVEYOR TUBE, FIRELITE, SUPER LIGHT, BORE CASING. |              |

#### 2. HAZARDS IDENTIFICATION

**Hazard Classification** Not classified as hazardous  
NON-HAZARDOUS SUBSTANCE.  
NON-DANGEROUS GOODS.

Hazard classification according to the criteria of NOHSC.

Dangerous goods classification according to the Australia Dangerous Goods Code.

**Risk Phrase (s)** Not classified as hazardous

**Safety Phrase(s)** S22 Do not breathe dust.

**Other Information** FROM HEAT GENERATED FUME ONLY: With burning or welding, moderate amounts of fume are emitted which contain mostly visible finely divided iron oxide (Fe<sub>2</sub>O<sub>3</sub>) fume. Small amounts of ozone and other gases may be emitted.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Information on Composition** CLEAR COATED: External clear coat, approx. 10 micrometre thick, of a water-borne modified alkyd resin paint (0-0.1 %)

NOP: not oiled or painted except for end colour code (0-0.1 %)

PAINTED: External coating, approx. 10 micrometre thick film of water borne epoxy/ acrylic resin zinc phosphate primer, or approx. 15 micrometre thick film of solvent borne alkyd resin zinc phosphate primer (0-0.09 %)

| Ingredients | Name  | CAS       | Proportion |
|-------------|---|-----------|------------|
|             | Steel                                       | 7439-89-6 | 95-100 %   |
|             | Manganese                                   | 7439-96-5 | 0.2-1.3 %  |
|             | Marking ink or paint as an end colour code. |           | 0-0.1 %    |
|             | Coating                                     |           | 0-0.1 %    |

### 4. FIRST AID MEASURES

**Inhalation** It is unlikely that this product can be inhaled in the as supplied form. If exposed to fume from welding operations, remove to fresh air.

**Ingestion** It is unlikely that this product can be ingested in the as supplied form.

**Skin** It is unlikely that this product will cause irritation to the skin in the as supplied form.  
For lacerations, clean and dress wound.  
For burns, apply copious amounts of cool water.

**Eye** It is unlikely that this product will enter the eye(s) in the as supplied form. If steel splinters enter the eye, obtain medical treatment immediately.

**First Aid Facilities** Eye wash fountains and normal washroom facilities.

**Advice to Doctor** Treat symptomatically.

### 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media** Use appropriate fire extinguisher for surrounding environment.

**Hazards from Combustion Products** The product as supplied is inert.

**Special Protective Equipment for fire fighters** Fire-fighters should wear full protective clothing and self contained breathing apparatus (SCBA).

## 6. ACCIDENTAL RELEASE MEASURES

**Emergency Procedures** Pick up mechanically or by hand tools.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling** Always wash hands before eating, drinking, smoking or using the toilet. See Section 8 Exposure Controls/Personal Protection for specific control recommendations.

**Conditions for Safe Storage** Store in a dry environment to prevent corrosion in storage.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| National Exposure Standards | Name      | STEL (mgm3) | STEL (ppm) | TWA (mgm3) | TWA |
|-----------------------------|-----------|-------------|------------|------------|-----|
|                             | Steel     |             | 5          |            |     |
|                             | Manganese | 3           |            | 1          |     |

**Biological Limit Values** No biological limit allocated.

**Other Exposure Information** No exposure standards have been established for this material by the National Occupational Health And Safety Commission (NOHSC). However, all exposure should be kept to the least possible levels as over-exposure to any chemical may result in enhancement of pre-existing adverse medical conditions and/or allergic reactions. Exposure standards for individual constituents are listed above.

TWA - the Time-Weighted Average airborne concentrations over an eight-hour working day, for a five-day working week over an entire working life.  
 STEL (Short Term Exposure Limit) - the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour work day.  
 According to current knowledge these concentrations should neither impair the

health of, nor cause undue discomfort to, nearly all workers.

Peak Limitation - a ceiling concentration which should not be exceeded over a measurement period which should be as short as possible but not exceeding 15 minutes.

'Sk' notice - absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur. These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. Exposure Standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

**Engineering Controls** No special ventilation is required for the product as supplied. For welding or cutting operations, local filtered extraction may be necessary to maintain the air concentration of fumes below the National Exposure Standards.

Dust from processing operations should not be allowed to build up in the workplace and should be removed for disposal. If possible, cleanup should be undertaken using a vacuum with a high efficiency filter. Ensure dust generation during cleanup is minimized, using appropriate work practices.

**Respiratory Protection** Not normally required. However, if engineering controls are not effective in controlling airborne exposure then respiratory protective equipment should be used suitable for protecting against airborne contaminants. Final choice of appropriate breathing protection is dependant upon actual airborne concentrations and the type of breathing protection required will vary according to individual circumstances. Expert advice may be required to make this decision. 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.

**Eye Protection** Safety glasses with side shields, goggles or full-face shield as appropriate recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

**Hand Protection** Cut resistant or leather gloves should be worn when handling strip or sheet steel, to avoid cuts from splinters, burrs or sharp edges. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

---

**Appearance** Metal hollow section, circular, square, rectangular, flat sided oval or trapesoidal shapes.

**Melting Point** 1300°C (Steel)

**Boiling Point** 3000°C

**Solubility in Water** Insoluble

**Specific**

|                                  |                 |
|----------------------------------|-----------------|
| <b>Gravity</b>                   | 7.7             |
| <b>Vapour Pressure</b>           | 0 torr @ 20°C   |
| <b>Vapour Density (Air=1)</b>    | Not available.  |
| <b>Flash Point</b>               | Not applicable. |
| <b>Flammability</b>              | Non-combustible |
| <b>Auto-Ignition Temperature</b> | Not applicable. |
| <b>Flammable Limits - Lower</b>  | Not applicable. |
| <b>Flammable Limits - Upper</b>  | Not applicable. |

---

## 10. STABILITY AND REACTIVITY

---

|   |  |
|---|--|
| <b>Chemical Stability</b>               | Stable under normal conditions of use. |
| <b>Conditions to Avoid</b>              | None known.                            |
| <b>Incompatible Materials</b>           | None known.                            |
| <b>Hazardous Decomposition Products</b> | None known.                            |
| <b>Hazardous Reactions</b>              | Not known                              |
| <b>Hazardous Polymerization</b>         | Will not occur.                        |

---

## 11. TOXICOLOGICAL INFORMATION

---

|                   |  |
|-------------------|--|
| <b>Inhalation</b> | Not expected to be inhaled in the form supplied.<br>Dust from cleaning & grinding operations, particulate fume, ozone and other gases from flame cutting and welding may be respiratory irritants. |
| <b>Ingestion</b>  | Not expected to be swallowed in the form supplied.   |
| <b>Skin</b>       | Sharp burrs on the edges of steel products can cause lacerations to unprotected skin. Burns may result from contact with hot surfaces.   |
| <b>Eye</b>        | Not irritating to eyes in the form supplied.<br>Dust: may cause mechanical irritation. May result in mild abrasion.<br>Cutting, grinding, hand tool cleaning, etc. operations may generate (hot)   |

metal particles which are potentially injurious to eye tissue.

**Chronic Effects** Chronic exposure to iron oxide fumes over the standard may lead to Siderosis which is a benign lung condition.  
Chronic exposure to manganese fumes over the standard may lead to disorders of the nervous and reproductive systems.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** No data is available for this material.

**Persistence / Degradability** No data is available for this material.

**Mobility** No data is available for this material.

**Environment Protection** The material as supplied is not known to be hazardous to the environment.

## 13. DISPOSAL CONSIDERATIONS

**Disposal Considerations** Dispose of waste according to federal, E.P.A., state and local regulations or this material should be undertaken by a registered chemical disposal company. Assure conformity with all applicable regulations. This product can be recycled.

## 14. TRANSPORT INFORMATION

**Transport Information** Not classified as a Dangerous Good, according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

**Storage and Transport** Not classified as dangerous goods.

## 15. REGULATORY INFORMATION

**Poisons Schedule** Not Scheduled

## 16. OTHER INFORMATION

**Date of preparation or last revision of MSDS** MSDS review: May 2006  
MSDS superseded: March 2000

**Contact Person/Point** Site Contacts: Newcastle Pipe Mills  
Materials Laboratory Technician  
(02) 4935 5721

Kembla Grange Oil and Gas Pipe  
Process manager

(02) 4261 0210

---

End of MSDS

---

**(C) Copyright ACOHS Pty Ltd**

Copyright in the source code of the HTML, PDF, XML, XFO and any other electronic files rendered by an Infosafe system for Infosafe MSDS displayed on this site is the intellectual property of Acohs Pty Ltd.

Copyright in the layout, presentation and appearance of each Infosafe MSDS displayed on this site is the intellectual property of Acohs Pty Ltd.

The compilation of MSDS's displayed on this site is the intellectual property of Acohs Pty Ltd.

Copying of any MSDS displayed on this site is permitted for personal use only and otherwise is not permitted. In particular the MSDS's displayed on this site cannot be copied for the purpose of sale or licence or for inclusion as part of a collection of MSDS without the express written consent of Acohs Pty Ltd.