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Last Revision Date: N/A  
Superseded Date: N/A  
Version Number: 01

## SAFETY DATA SHEET

Product Code: WSFS20030WH

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### SECTION 1 PRODUCT IDENTIFICATION

**Product Name:** Livingstone Spatula  
**Material:** Stainless Steel AISI 410

### SECTION 2 HAZARD IDENTIFICATION

**Inhalation:** This Material used for instrument is not hazardous unless processed (i.e ground, welded) in a manner that generates dust or fumes. Dust and fumes may cause eye, skin and respiratory irritation.

**Skin or Eye Contact:** May cause skin and respiratory tract sensitization (allergic reaction).

**Ingestion:** Prolonged inhalation of dust or fumes from this instrument may cause perforation of the nasal septum and lung damage.

### SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

#### Stainless Steel

- 410 is the AISI designation for this material.
- S41000 is the UNS (unified numbering system) number.
- The British Standard (BS) designation is 410S21

#### Composition

Element	CAS Number	By weight (%age)
Carbon	7440-44-0	0.14
Silicon	7440-21-3	0.42
Manganese	7439-96-5	0.53
Phosphorus	7723-14-0	0.039
Sulfur	7704-34-9	0.024
Nickel	7440-02-0	0.38
Chromium	7440-47-3	12.45
Iron	7439-89-6	Remaining

### SECTION 4 FIRST AID MEASURES

**Inhalation:** Not applicable in solid form. Inhalation of dust or fume from grinding, cutting and welding operations is unlikely to generate the need for specific first aid.

**Skin or Eye Contact:** There are no special symptoms or effects associated with stainless steel. In the event of physical injury to the skin, seek appropriate medical attention. In the event of physical injury to the eyes, seek immediate medical attention. Austenitic stainless steel particles are non-magnetic or only slightly magnetic and may not respond to a magnet placed over the eye. In such cases seek hospital treatment.

**Ingestion:** Does not apply to stainless steel in the solid form.

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### SECTION 5 FIRE FIGHTING MEASURES

#### Extinguishing Media:

This material is not combustible in solid form. Use media that is appropriate for the surrounding fire. For fires involving fine dust or filings, do not use water, CO2 or foam directly on the burning metal. Use dry sand, graphite powder, Lith-X powder, and dry chemical or other media appropriate for a class D fire.

#### Fire Fighting Procedures:

Firefighters should wear full emergency equipment and NIOSH approved positive pressure self-contained breathing apparatus



### SECTION 6 ACCIDENTAL RELEASE MEASURES

No Information available

### SECTION 7 HANDLING AND STORAGE

#### Handling:

Do not breathe dust or fumes from processing. Avoid contact with dust. Wear protective clothing and equipment as described in Section 5. Process only with adequate ventilation. Keep containers closed when not in use. Do not eat, drink or smoke in the work area.

#### Storage:

Store in a cool, well ventilated location away from incompatible materials.

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Engineering Controls:

None needed under normal use. If dust or fumes are generated during processing, use with adequate local exhaust ventilation to maintain exposures below D20 the occupational exposure limit.

#### Eye Protection:

Wear safety glasses or other eye protection consistent with industrial safety practice for the process being performed.

#### Skin Protection:

Wear protective gloves if need to prevent cuts or other injuries.

#### Respiratory Protection:

None needed under normal use. If the occupational exposure limits are exceeded during processing, an approved respirator with high efficiency particulate filters may be used. For higher exposures (greater than 10 times the exposure limit) a supplied air respirator may be required. Respirator selection and use should be based on contaminant type, form and concentration. Follow OSHA 1910.134, ANSI Z88.2 or local authority regulations and good Industrial Hygiene practice.

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### SECTION 9 PHYSICAL/CHEMICAL PROPERTIES

No Information available

### SECTION 10 STABILITY AND REACTIVITY

**Stability:** Stable

**Conditions to avoid:** None Known

**Incompatibility:** Acids, Oxidising agents, ammonia nitrate, Sulfur, alkalis, Selenium, nickel nitrate and sodium azide

**Hazardous Decomposition:** Toxic metal fumes and oxides are emitted when product is heated above the melting point.

### SECTION 11 TOXICOLOGICAL INFORMATION

Stainless Steel is non-toxic.

### SECTION 12 ECOLOGICAL INFORMATION

None known harmful effects. No special precautions are required.

### SECTION 13 DISPOSAL CONSIDERATIONS

Surplus and scrap (waste) stainless steel is valuable and in demand for the production of prime new stainless steel. Recycling routes are well established, and recycling is therefore the preferred disposal route. Disposal to landfill is not harmful to the environment, but it is a waste of resources and therefore less desirable than recycling.

### SECTION 14 TRANSPORT INFORMATION

No special precautions required - non-hazardous for road, sea or air.

### SECTION 15 REGULATORY INFORMATION

No Information available

### SECTION 16 OTHER INFORMATION

No Information available

## END OF SDS

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