

# ALEC TIRANTI LIMITED

TOOLS, MATERIALS & EQUIPMENT FOR MODELLING, CARVING, SCULPTURE

3 Pipers Court, Berkshire Drive,  
Thatcham, Berks RG19 4ER  
Tel: 0845 123 2100 Fax: 0845 123 2101



London Shop: 27 Warren Street  
London W1T 5NB  
Tel & Fax: 020 7380 0808

## Material Safety Data Sheet

### Brown Bronze Powder

#### 1. Identification of the Substance/mixture and of the company/undertaking

##### 1.1 Product identifier

Product name: Brown Bronze Powder  
Product No.: 160468

##### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Intended Use: A preparation for use in surface finishing

##### 1.3 Details of the supplier of the safety data sheet

Supplier: Bronzing solutions  
5 Corncrake drive  
Smiths wood  
Birmingham  
B36 0QU  
Contact Person 07453 732753  
nigelfryzie@gmail.com

##### 1.4 Emergency Telephone Number

24 Hour emergency incident number: +44 (0)1235 239 670 NCEC (national chemical emergency centre)

#### 2. Hazards Identification

##### 2.1 Classification of the Substance or Mixture

Classification (EC 1272/2008)

Physical and chemical hazards Not classified  
Human Health Acute tox. 4 –H032;Acute tox. 4 – H332  
Environment Aquatic Chronic 2 – H411

Classification (1999/45/EEC) Xn:R20/22. N;R51/53

Full text for for all R-phrases and hazard statements are displayed in section 16

##### 2.2 Label Elements

Contains Antimony Sulphide  
Label in accordance with (EC) no. 1272/2008



Signal word Warning

Hazard Statements	H302	Harmful if Swallowed
	H332	Harmful if inhaled
	H411	Toxic to aquatic life with long lasting effects
Precautionary statements	P271	Use only outdoors or in a well ventilated area
	P273	Avoid release into the environment
	P280	Wear Protective clothing, gloves, eye & face protection
	P261	Avoid breathing dust
	P304+340	if INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing
	P310~+330+331	if SWALLOWED: rinse. DO NOT induce vomiting.
	P314	Seek medical advice/attention if you feel unwell
Supplementary precautionary statements		
	P403+223	Store in a well-ventilated place. Keep container tightly closed.
	P501a	Dispose on contents/container in accordance with local, regional, national and/or international regulations

##### 2.3 Other Hazards

This product does not contain any PBT or vPvB substances

### 3. Composition/information on Ingredients

#### 3.1 Substances

N/A

#### 3.2 Mixtures

Ferric Oxide	25-40%		
CAS-No 1309-37-1		EC No. 215-168-2	
Classification (1272/2008)		Classification (67/548/EEC)	
Not classified		not classified	
Antimony Sulphide	25-40%		
CAS-No 1315-04-4		EC No. 215-255-5	
Classification (1272/2008)		Classification (67/548/EEC)	
Flam. Sol. 1 H228		Xn;R20/22	
Acute tox.4 – H302		F;R11	
Acute tox. 4 – H332		N;R51/53	
Aquatic chronic 2 – H411			
Graphite	5-25%		
CAS No 7782-42-5		EC No. 231-955-3	
Classification (1272/2008)		Classification (67/548/EEC)	
Not classified		Not classified	
Amorphous Silica	5-25%		
CAS No.		EC No.	
Classification (1272/2008)		Classification (67/548/EEC)	
Not classified		Not classified	

The full text for all R-phrases and hazard statements are displayed in section 16

### 4. First Aid Measures

#### 4.1 Description of First Aid measures

General information:	Remove affected person from source of contamination
Inhalation:	move the exposed person to fresh air at once. Rinse nose and mouth with water. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention if any discomfort continues.
Ingestion:	Promptly get affect person to drink large volumes of water to dilute the swallowed chemical. Rinse nose, mouth and throat with water. DO NOT induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. NEVER MAKE AN UNCONSCIOUS PERSON VOMITOR DRINK FLUIDS. Seek medical attention
Skin Contact:	Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation persists after washing.
Eye Contact:	Promptly wash eyes with plenty of water while lifting eyelids. Make sure to remove any contact lenses from the eyes before rinsing. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continus.

#### 4.2 Most important symptoms and effects both acute and delayed

General Information:	See section 11 for additional informationon health effects.
Inhalation:	dust may irritate throat and respiratory system and cause coughing. Spray mists may cause respiratory tract irritation. Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases. Contains silica, the dust from which, if inhaled over a prolonged period can give rise to fibrosis of the lungs (silicosis)
Ingestion:	may irritate and cause stomach pain, vomiting and diarrhea. May cause discomfort if swallowed.
Skin contact:	Powder may irritate skiin. Prolonged contact may cause redness, irritation and dry skin.
Eye Contact:	May cause temporary eye irritation. Particles in the eyes may cause irritation and smarting. Irritation, burning, lachrymation, blurred vision after liquid splash.

#### 4.3 Indication of any immediate medical attention and special treatment needed.

No specific first aid measures noted.

### 5. Fire Fighting Measures

#### 5.1 Extinguishing Media

Use fire-extinguishing media appropriate for surrounding materials

#### 5.2 Special Hazards arising from the substance or mixture

Hazardous combustion products:	Thermal decomposition or combustion may liberate oxides and other toxic gases or vapours.
Unusual Fire and Explosion Hazards:	Beware, risk of formation of toxic and corrosive gases can form dust clouds that may explode on contact with flames, heat and oxidizers
Specific Hazards:	Fire or high temperatures create: sulphurous gases (Sox). Metal oxides.

Oxides of ; silicon

### 5.3 Advice for firefighters

Special firefighting procedures:

Avoid breathing fire vapours. Keep up-wind to avoid fumes. Ventilate closed spaces before entering them. Keep run-off water out of sewers and water courses. Dyke for water control. If risk of water pollution occurs, notify appropriate authorities.

Protective equipment for firefighters: Self contained breathing apparatus and full protective clothing must be worn in case of fire.

## 6 ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in section 8 of this safety data sheet.

Avoid inhalation of dust and contact with skin and eyes.

In case of inadequate ventilation, use respiratory protection. Ensure suitable personal protection

Including respiratory protection during removal of spillages in a confined area.

In case of spills, beware of slipper floors and surfaces.

### 6.2 Environmental precautions

Collect and dispose of spillage as indicated in section 13. DO NOT allow to enter drains, sewers or water courses. Avoid release to the environment. DO NOT allow ANY environmental contamination.

### 6.3 Methods and material for containment and cleaning up

Wear necessary protective equipment. Stop leak if possible without risk. To prevent release, place container with damaged side up. Extinguish all sources of ignition. Avoid sparks, flames heat and smoking. Ventilate.

Avoid generation and spreading of dust. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Do not contaminate water sources or sewer. Inform authorities if large amounts are involved.

### 6.4 Reference to other sections

Wear protective clothing as described in section 8 of this safety data sheet. Collect and dispose of spillage as indicated in section 13.

## 7. Handling and Storage

### 7.1 Precautions for safe handling

Do not handle broken packages without protective equipment. Avoid inhalation of dust and contact with skin and eyes. Avoid handling which leads to dust formation. Use mechanical ventilation in case of handling which causes formation of dust. Do not use in confined spaces without adequate ventilation and/or respirator. Avoid contact with acids. Keep away from heat, sparks and open flame. Take precautionary measures against static discharges when there is a risk of dust explosion. Do not eat, drink or smoke when using the product. Observe good chemical hygiene practices.

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

Store in tightly closed original container in a dry, cool place and well ventilated place. Keep separate from food, feedstuffs, fertilizers and other sensitive material.

Storage class

Chemical storage

### 7.3 Specific end use(s)

The identified uses for this product are detailed in section 1

Min storage temp. (°C) 5

Max. Storage temp. (°C) 40

## 8. Exposure Controls/Personal Protection

### 8.1 Control parameters

Name	Std	TWA – 8hrs	STEL – 15 min	Notes
Amorphous silica	WEL	2.4mg/m <sup>3</sup>		
ANIMONY SULPHIDE	WEL	0.5mg/m <sup>3</sup>		As Sb
Ferric oxide	WEL	1mg/m <sup>3</sup>	10mg/m <sup>3</sup>	As Fe
GRAPHITE	WEL	10mg/m <sup>3</sup>		

WEL – workplace exposure limit

### 8.2 Exposure controls

Protective equipment

Goggles

Gloves

LEV – local exhaust ventilation

Respirator

Process conditions

Use engineering controls to reduce air contamination to permissible exposure level

Engineering measures

Provide adequate general and local exhaust ventilation. Provide sufficient ventilation for operations causing dust formation. All handling to take place in well ventilated area.

Respiratory equipment

If ventilation is insufficient, suitable respiratory protection must be provided. Seek advice from supervisor on the companies respiratory protection standards

Hand Protection	Protective gloves should be used if there is a risk of direct contact or splash. Seek advice from local supervisor. Splash protection: (breakthrough time > 60mins) polyvinyl chloride (PVC). Neoprene. Prolonged contact: (breakthrough time > 480 mins) Butyl rubber (for materials thickness = 0.5mm minimum) Protective gloves should conform to EN 374. The condition of gloves should be checked prior to each use. The selection of gloves should be made with consideration to working practices and the duration of exposure. Consideration should be given to other chemicals being handled and the working environment (e.g. sharps, fine work) Note: observe manufacturers recommendations, as the selection of suitable gloves does not only depend on glove material type, and permeability may vary between manufacturers
Eye protection	wear dust resistant safety goggles where there is a danger of eye contact.
Other protection	provide eyewash station and safety shower. Wear suitable protective clothing as protection against splashing or contamination.
Hygiene measures	Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated . promptly remove non-impervious clothing that becomes contaminated. Contaminated clothing to be placed in closed container until disposal or decontamination. Warn cleaning personel of chemicals hazardous properties. Eating, smoking and water fountains prohibited in immediate work area.
Environmental exposure controls	Keep container tightly sealed when not in use. Residues and empty containers should be taken care of as hazardous waste according to the local and national provisions. Emissions from ventikation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipemtn will be necceswsary to reduce the emissions to acceptable levels.

## 9. Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

Appearance	Powder
Colour	Brown
Odour	Almost odourless
Solubility	Slightly solublein water
Initial boiling point	Not available
boiling range °C	Not available
Melting point °C	Not available
Bulk density	Not available
Vapour density (air=1)	Not available
Vapour pressure	Not available
Evaporation rate	Not available
pH-value, diluted solution	Not available
Viscosity	Not available
Solubility value (G/100G H2O@20°C)	Not available
Decomposition temperature	Not available
Odour threshold, lower	Not available
Odour threshold, upper	Not available
Flash point °C	Not available
Auto ignition temperature	Not available
Flammability limit, lower	Not available
Flammability limit, upper	Not available
Partition coefficient (N-octanol/water)	Not available
Explosive properties	Not available
Oxidising properties	Not available
Other information	Volatile Organic Compound (VOC) 0%w/w

### 9.2 other information

## 10. Stability and Reactivity

### 10.1 Reactivity

Stable under normal temperature conditions and recommended use

### 10.2 Chemical Stability

Stable under normal temperature conditions and recommended use

### 10.3 Possibility of hazardous reactions

Generates toxic gas in contact with acid. Toxic gases/vapours/fumes/of hydrogen sulphide (H<sub>2</sub>S)

### 10.4 Hazardous polymerization

Will not polymerize

### 10.5 Conditions to avoid

Avoid heat, flames and other sources of ignition. Take precautionary measures against static discharges when there is risk of dust explosion

### 10.6 Incompatible materials

Materials to avoid Strong Acids

### 10.6 Hazardous decomposition products

None under normal conditions. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Fire or high temperatures creates: sulphurous gases (Sox). Metals oxides. Oxides of silicon.

## 11. Toxicological Information

### 11.1 Information on toxicological effects

Acute toxicity	Harmful if swallowed Harmful if inhaled
Skin corrosion / irritation:	based on available data the classification criteria are not met
Serious eye damage/irritation	based on available data the classification criteria are not met
Respiratory or skin sensitization	based on available data the classification criteria are not met
Germ cell mutagenicity	does not contain any substances known to be mutagenic
Carcinogenicity	does not contain any substances known to be carcinogenic
Reproductive toxicity	does not contain any substances known to be toxic to reproduction
Specific target organ toxicity –single exposure	not classified as specific target organ toxicant after a single exposure
Specific target organ toxicity – repeated exposure	not classified as a specific target organ toxicant after repeated exposure
Aspiration Hazard	Not relevant, due to the form of the product

## 12. Ecological Information

### 12 Eco toxicity

Dangerous for the environment if discharged into watercourses. The product does not contain any organically bound halogen

### 12.1 Toxicity

Toxic to aquatic life with long lasting effects

### 12.2 Persistence and degradability

Durability – the product is not expected to be biodegradable

### 12.3 Bio accumulative potential

No data available on bioaccumulation

Partition coefficient – not available

### 12.4 Mobility in soil

The product is partly soluble in water. May spread in the aquatic environment. The product contains substances which are insoluble in water and which sediment in water systems

### 12.5 Results of PBT and vPvB assessment

This product does not contain and PBT or vPvB substances

### 12.6 Other adverse effects

None known

## 13. Disposal Considerations

### General Information

When handling waste, consideration should be made to the safety precautions applying to handling of the product.  
Keep in original container.

### 13.1 Waste treatment methods

Environmental manager must be informed of all major spillages. Dispose of waste residues in accordance with local authority requirements. Do not allow run-off to sewer, waterway or ground. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

## 14. Transport Information

### Un Number

UN No. (ADR/RID/AND)	UN3077
UN No. (IMDG)	UN3077
UN No. (ICAO)	UN3077
UN Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (contains antimony sulphide)

### Transport Hazard Classes

ADR/RID/ADN Class	9
ADR/RID/AND class	Class 9 : Miscellaneous dangerous substances and articles
IMDG class	9
ICAO class/division	9

### Packing group

ADR/RID/AND packing group	III
IMDG packing group	III
ICAO packing group	III

### Environmental hazards



Environmentally hazardous substance/marine pollutant

**Special precaution for user**

EMS F-A, S-F  
Hazard Number (ADR) 90 environmentally hazardous substance; miscellaneous dangerous substances  
Tunnel Restriction code (E)  
**Transport in bulk according to annex II MARPOL&£/&\* and the IBC code**  
**Not relevant**

**15. Regulatory Information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Statutory Instruments**

The chemicals (hazard information and packaging for supply) regulations 2009 (S.I 2009 No. 716) control of substances hazardous to health

**Approved code of practice**

Safety data sheets for substances and preparations. Classification and labelling of substances and preparations dangerous for supply

**Guidance notes**

Work exposure limits EH40

**EU Legislation**

Dangerous substance directive 67/548/EEC. Dangerous preparations directive 1999/45/EC regulation (EC) No.1907/2006 concerning the registration, evaluation, authorization and restriction of chemicals (REACH). Regulation (EC) No.1272/2008 on classification, labelling and packaging of substances and mixtures (CLP), amending and repealing directives 67/548/EEC and 1999/45/EC and amending regulation (EC) No1907/2006. Regulation (EC) No.790/2009 amending, for the purpose its adaption to technical and scientific progress, regulation (EC) No.1272/2008 of the European parliament and of the council on classification, labelling and packaging of substances and mixtures (CLP) Commission regulation (EU) No 453/2010 amending regulation (EC) No. 1907/2006 of the European parliament and of the council on the registration, evaluation, authorization and restriction of chemicals (REACH)

**Authorisations (title VIII regulation 1907/2006)**

No specific authorisations for thios product

**Restrictions (title VIII regulation 1907/2006)**

No specific restrictions of use are noted for this product

**Water Hazard Classification**

WGK2

**15.2 Chemical safety assessment**

No chemical safety assessment has been carried out

**16. Other Information**

## Revision comments

NOTE: the lines within the margin indicate significant changes form the previous revision

Revision date: 05/08/2014  
Revision 2  
Safety data sheet status Approved  
Signiture NF

Risk Phrases in full R20/22 harmful by inhalation and if swallowed  
R11 highly flammable  
NC not classified  
R51/53 toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment  
Hazard Statemnets in full H228 Flammable solid  
H332 Harmful if inhaled  
H302 Harmful if swallowed  
H411 Toxic to aquatic life with long lasting effects

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