

SAFETY DATA SHEET

BROWN BRONZE PATINA POWDER

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name BROWN BRONZE PATINA POWDER
Product No. 159245

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

Identified uses A preparation for use in surface finishing.

Details of the supplier of the safety data sheet

Supplier **Hollison Supply**
117 Western Rd, Hockley
Birmingham, B18 7QD
+44(0)1215231606

Emergency telephone number

24 Hour Emergency Incident Number +44 (0)1235 239 670 – NCEC (National Chemical Emergency Centre)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture Classification
(EC 1272/2008)

Physical and Chemical Hazards	Not classified
Human health	Acute Tox. 4 – H302; Acute Tox. 4 – H332
Environment	Aquatic Chronic 2 – H411

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

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Label Elements

Contains ANTIMONY SULPHIDE
Label In Accordance With (EC) No. 1272/2008



Signal Word

Warning

Hazard Statements

H302
H332
H411

Harmful if swallowed

Harmful if inhaled

Toxic to aquatic life with long lasting effects

Precautionary Statements

P271
P273
P280
P261
P304+340

P301+330+331
P314
P403+223
P501a

Use only outdoors or in a well-ventilated area

Avoid release to the environment

Wear protective clothing, gloves, eye & face protection

Avoid breathing dust

If INHALED: Remove victim to fresh air and keep at rest
in a position comfortable for breathing.

If SWALLOWED: Rinse mouth. DO NOT induce vomiting.

Seek medical advice/attention if you feel unwell

Store in a well-ventilated place. Keep container tightly closed

Dispose of contents/container in accordance with local, regional,
national and/or International regulations.

Other Hazards

This product does not contain any PBT or vPvB substances.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Ferric Oxide	25 - <40%
CAS-No: 1309-37-1	EC No: 215-168-2
Classification (EC 1272/2008) Not Classified.	Classification (67/548/EEC) Not Classified
ANTIMONY SULPHIDE	25 - <40%
CAS-No : 1315-04-4	EC No: 215-255-5
Classification (EC 1272/2008) Flam. Sol. 1 – H228 Acute Tox. 4 – H302 Acute Tox. 4 – H332 Aquatic Chronic 2 – H411	Classification (67/548/EEC) Xn;R20/22 F;R11 N;R51/53
GRAPHITE	5 - <25%
CAS-No: 7782-42-5	EC No: 231-955-3
Classification (EC 1272/2008) Not Classified	Classification (67/548/EEC) Not Classified
Amorphous Silica	5 - <25%
CAS-No:	EC No:
Classification (EC 1272/2008) Not Classified.	Classification (67/548/EEC) Not Classified.

The Full Text for all R- Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: FIRST AID MEASURES

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 affected 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 VOMIT OR 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 the eye lids. 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 continues.

Most important symptoms and effects, both acute and delayed

General information

See section 11 for additional information on health hazards.

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 diarrhoea. May cause discomfort if swallowed.

Skin contact Powder may irritate skin. 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.

Indication of any immediate medical attention and special treatment needed No specific first aid measures noted.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Extinguishing media

Use fire-extinguishing media appropriate for surrounding materials.

Special hazards arising from the substance or mixture

Hazardous combustion products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

Unusual Fire & Explosion Hazards

Beware, risk of formation of toxic and corrosive gases can form dust clouds that may explode on contact with flames, heat and oxidisers.

Specific hazards

Fire or high temperatures create: Sulphurous gases (S_{ox}). Metal oxides. Oxides of:

Silicon. 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 sources. Dike for water control. If risk of water pollution occurs, notify appropriate authorities.

Protective equipment for fire-fighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

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 slippery floors and surfaces.

Environmental precautions

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

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 ignition sources. 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.

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

SECTION 7: HANDLING AND STORAGE

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.

Conditions for safe storage, including any incompatibilities

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

Storage class Chemical storage. 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

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Name	STD	TWA- 8 Hrs	STEL – 15 Min	Notes
Amorphous silica	WEL	2,4 mg/m ³		
ANTIMONY SULPHIDE	WEL	0,5 mg/m ³		as Sb
Ferric oxide	WEL	1 mg/m ³	10 mg/m ³	As Fe
GRAPHITE	WEL	10 mg/m ³		

WEL = Workplace Exposure Limit

Exposure controls

Protective equipment



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 > 60 minutes). Polyvinyl chloride (PVC). Neoprene. Prolonged contact: (breakthrough time > 480 minutes). Butyl rubber. (For material 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 manufacturer's 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 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 personnel 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 local and national provisions. Emissions from ventilation 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 equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Powder
Colour	Brown/Black
Odour	Almost odourless
Solubility	Slightly soluble in water
Initial boiling point and 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 applicable
pH-Value, Diluted Solution	Not available
Viscosity	Not applicable
Solubility Value (G/100G H2O@20*C)	Not available
Decomposition temperature (*C)	Not available
Odour Threshold, Lower	Not available
Odour Threshold, Upper	Not available
Flash point *(C)	Not applicable
Auto Ignition Temperature (*C)	Not applicable
Flammability Limit – Lower (%)	Not applicable
Flammability Limit – Upper (%)	Not applicable
Partition Coefficient (N-Octanol/Water)	Not available
Explosive properties	Not applicable
Oxidising properties	Not applicable
<u>Other Information</u>	
Volatile Organic Compound (VOC)	0 %w/w

SECTION 10: STABILITY AND REACTIVITY

Reactivity

Stable under normal temperature conditions and recommended use

Chemical Stability

Stable under normal temperature conditions and recommended use

Possibility of hazardous reactions

Generates toxic gas in contact with acid. Toxic gases/vapours/fumes of: Hydrogen sulphide (H₂S)

Hazardous

Polymerisation

Will not polymerise

Conditions to avoid

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

Incompatible materials

Materials to avoid Strong acids

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 create:

Sulphurous gases (SO_x). Metal oxides. Oxides of: Silicon.

SECTION 11: TOXICOLOGICAL INFORMATION

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 sensitisation:

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 a 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.

SECTION 12: ECOLOGICAL INFORMATION

Eco toxicity

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

Toxicity

Toxic to aquatic life with long lasting effects.

Persistence and degradability

Degradability

The product is not expected to be biodegradable.

Bio accumulative potential

No data available on bioaccumulation.

Partition coefficient- Not available

Mobility in soil

Mobility:

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.

Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

Other adverse effects None known.

SECTION 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.

Waste treatment methods

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

SECTION 14: TRANSPORT INFORMATION

UN number

UN No. (ADR/RID/ADN)	UN3077
UN No. (IMDG)	UN3077
UN No. (ICAO)	UN3077

UN proper shipping name

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (contains antimony sulphide)

Transport hazard class(es)

ADR/RID/ADN Class	9
Miscellaneous dangerous substances and articles	
IMDG Class	9
ICAO Class/Division	9
Transport Labels	



Packing group

ADR/RID/ADN Packing group	III
IMDG Packing group	III
ICAO Packing group	III

Environmental hazards



Environmentally Hazardous Substance/Marine Pollutant

Special precautions for user

EMS	F-A, S-F
Hazard No. (ADR)	90 Environmentally hazardous substance; miscellaneous dangerous substances.
Tunnel Restriction Code	(E)

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not relevant.

SECTION 15: REGULATORY INFORMATION

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.

Guidance Notes

Workplace 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, Authorisation 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) No 1907/2006. Regulation (EC) No 790/2009 amending, for the purposes of its adaptation 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, Authorisation and Restriction of Chemicals (REACH).

Authorisations (Title VIII Regulation 1907/2006)

No specific authorisations are noted for this product.

Restrictions (Title VIII Regulation 1907/2006)

No specific restrictions of use are noted for this product.

Water hazard classification

WGK 2

Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Revision Comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision Date	05/08/20
Revision	4
Safety Data Sheet Status	Approved
Signature	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 Statements In Full	
H228	Flammable solid
H332	Harmful if inhaled
H302	Harmful if swallowed
H411	Toxic to aquatic life with long lasting effects

Disclaimer

This information relates only to the specific material as supplied and may not be valid for such material if used in combination with any other material(s) or in any other process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the data indicated. The data should not be construed as guaranteeing specific properties of the product described or its suitability for a particular application, nor does it make any warranty, either express or implied of merchantability for the product itself. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.