

**Bronze Acid Stain**

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758 and SI 2020/1577

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier**

Product Name Bronze Acid Stain  
CAS No. Not applicable.  
EC No. Not applicable.  
Registration number(s)

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

Identified Use(s) Non-metal-surface treatment products, colourant in concrete finishing  
Uses Advised Against Not known.

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

Manufacturer  
Company Identification Multicrete Products Limited  
Address of Manufacturer Units 1-2 Commerce Street  
Carrs Industrial Estate  
Haslingden  
Rossendale  
Lancashire  
Postal code BB4 5JT  
Telephone: 01706 212135  
Fax 01706 217642  
E-mail sales@multicreteproducts.co.uk  
Office hours 08.30-16.30

Supplier  
Company Identification Multicrete Products Limited  
Address of Supplier Units 1-2 Commerce Street  
Carrs Industrial Estate  
Haslingden  
Rossendale  
Lancashire  
Postal code BB4 5JT  
Telephone: 01706 212135  
Fax 01706 217642  
E-mail sales@multicreteproducts.co.uk  
Office hours 08.30-16.30

**1.4 Emergency telephone number**

Emergency Phone No. 01706 212135  
Contact Christopher Barrientos  
National response centre  
Address NHS Direct  
Emergency Phone No. +44 111

**SECTION 2: HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture**

GB CLP Regulation, UK SI 2019/720 and UK SI 2020/1567  
Acute Tox. 4 :Harmful if swallowed.  
Skin Corr. 1B :Causes severe skin burns and eye damage.  
Skin Sens. 1 :May cause an allergic skin reaction.  
Eye Dam. 1 :Causes serious eye damage.  
Acute Tox. 3 :Toxic if inhaled.  
Resp. Sens. 1 :May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
STOT SE 3 :May cause respiratory irritation.  
Muta. 1B :May cause genetic defects.  
Carc. 1B :May cause cancer.  
Repr. 1B :May damage fertility. May damage the unborn child.  
STOT RE 1 :Causes damage to organs through prolonged or repeated exposure.  
Aquatic Chronic 2 :Toxic to aquatic life with long lasting effects.

**2.2 Label elements**

According to GB CLP Regulations, UK SI 2019/720 and UK SI 2020/1567  
Product Name Bronze Acid Stain

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Hazard Pictogram(s)



GHS06



GHS05



GHS08



GHS09

Signal Word(s)

Danger

Hazard Statement(s)

H302: Harmful if swallowed.  
H314: Causes severe skin burns and eye damage.  
H317: May cause an allergic skin reaction.  
H331: Toxic if inhaled.  
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335: May cause respiratory irritation.  
H340: May cause genetic defects.  
H350: May cause cancer.  
H360FD: May damage fertility. May damage the unborn child.  
H372: Causes damage to organs through prolonged or repeated exposure.  
H411: Toxic to aquatic life with long lasting effects.

Precautionary Statement(s)

None.

**2.3 Other hazards**

None known.

**2.4 Additional Information**

For full text of H/P Statements see section 16.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.1 Substances**

Not applicable.

**3.2 Mixtures**

HAZARDOUS INGREDIENT(S)	CAS No.	EC No. / Registration number(s)	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
hydrochloric acid ... %		231-595-7	1-10	Skin Corr. 1B H314 STOT SE 3 H335	GHS05 GHS07
manganese dichloride	7773-01-5	231-869-6	1-10	Acute Tox. 3 H301 Eye Dam. 1 H318 STOT RE 2 H373	GHS06 GHS05 GHS08
Iron dichloride	7758-94-3	231-843-4	1-10	Met. Corr. 1 H290 Acute Tox. 4 H302 Skin Sens. 1 H317 Eye Dam. 1 H318	GHS05 GHS07
sodium dichromate	10588-01-9	234-190-3	1-10	Ox. Sol. 2 H272 Acute Tox. 3 H301 Acute Tox. 4 H312 Skin Corr. 1B H314 Skin Sens. 1 H317 Acute Tox. 2 H330 Resp. Sens. 1 H334 Muta. 1B H340 Carc. 1B H350 Repr. 1B H360FD STOT RE 1 H372 Aquatic Acute 1 H400	GHS03 GHS06 GHS05 GHS08 GHS07 GHS09

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				Aquatic Chronic 1 H410	
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For full text of H/P Statements see section 16.

**SECTION 4: FIRST AID MEASURES****4.1 Description of first aid measures**

Inhalation	Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTRE/doctor.
Skin Contact	Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with water. If skin irritation or rash occurs: Get medical advice/attention.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE/doctor.
Ingestion	Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTRE/doctor.

**4.2 Most important symptoms and effects, both acute and delayed**

Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Toxic if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. May cause genetic defects. May cause cancer. May damage fertility. May damage the unborn child. Causes damage to organs through prolonged or repeated exposure.

**4.3 Indication of any immediate medical attention and special treatment needed**

Immediately call a POISON CENTRE/doctor.

**SECTION 5: FIREFIGHTING MEASURES****5.1 Extinguishing media**

Suitable Extinguishing media	As appropriate for surrounding fire.
Unsuitable extinguishing media	None.

**5.2 Special hazards arising from the substance or mixture**

May decompose in a fire, giving off toxic and irritant vapours.

**5.3 Advice for firefighters**

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Water spray should be used to cool containers.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation. Ensure full personal protection (including respiratory protection) during removal of spillages. Do not breathe vapour. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands and exposed skin thoroughly after handling.

**6.2 Environmental precautions**

Avoid release to the environment.

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

Absorb spillages onto sand, earth or any suitable adsorbent material. Collect spillage. Transfer to a container for disposal.

**6.4 Reference to other sections**

See Also Section 8, 13.

**SECTION 7: HANDLING AND STORAGE****7.1 Precautions for safe handling**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Do not breathe vapour. Avoid contact with skin and eyes. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation wear respiratory protection. Wash hands and exposed skin thoroughly after handling.

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



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Storage temperature  
Storage life  
Incompatible materials  
**7.3 Specific end use(s)**

Store in a well-ventilated place. Keep container tightly closed. Store locked up.  
Ambient.  
Stable under normal conditions.  
Strong oxidising agents, Acids.

Non-metal-surface treatment products, colourant in concrete finishing

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

##### 8.1.1 Occupational Exposure Limits

Occupational Exposure Limits						
SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m <sup>3</sup> )	STEL (ppm)	STEL (mg/m <sup>3</sup> )	Note
Manganese and its inorganic compounds (as Mn) - Inhalable fraction	7773-01-5		0.2			
Manganese and its inorganic compounds (as Mn) - Respirable fraction	7773-01-5		0.05			
Chromium (VI) compounds (as Cr)	10588-01-9		0.01			Carc, Sen, BMGV
Chromium (VI) compounds (as Cr)	10588-01-9		0.025			Carc, Sen, BMGV, (r)

Region  
United Kingdom

Source  
UK Workplace Exposure Limits EH40/2005 (Fourth edition, published 2020)

Remark  
Carc  
Sen  
BMGV  
(r)

Notes  
Capable of causing cancer and/or heritable genetic damage.  
Capable of causing occupational asthma.  
Biological monitoring guidance values are listed in Table 2.  
'Process generated' refers to exposures to Chromium (VI) Compounds generated as a result of a work process, such as fumes from welding.

Biological Exposure Indices						
Substances	CAS Number	Sampling	Tissues	Control parameters	Biological monitoring guidance value	Comments
Chromium VI	10588-01-9	10 µmol chromium/mol creatinine in urine	Post shift			

Remark

Notes

#### 8.2 Exposure controls

8.2.1. Appropriate engineering controls Use with ventilation, local exhaust ventilation or breathing protection. A washing facility/water for eye and skin cleaning purposes should be present.

##### 8.2.2. Personal protection equipment



Eye Protection

Wear eye protection with side protection (EN166).



Skin protection

Wear protective clothing and gloves: Impervious gloves (EN 374). Breakthrough time of the glove material: refer to the information provided by the gloves' producer.



Respiratory protection

Wear respiratory protection.

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Thermal hazards

Not applicable.

8.2.3. Environmental Exposure Controls Avoid release to the environment.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

Appearance	Liquid.
Odour	Colour : Dark brown.
Odour threshold	Characteristic odour.
pH	Not known.
Melting point/freezing point	<2
Initial boiling point and boiling range	Not known.
Flash Point	>35°C
Evaporation rate	>93°C
Flammability (solid, gas)	Not known.
Upper/lower flammability or explosive limits	Not known.
Vapour pressure	Not known.
Vapour density	Not known.
Density (g/ml)	Not known.
Relative density	Not known.
Solubility(ies)	Solubility (Water) : Soluble in water.
	Solubility (Other) : Not known.
Partition coefficient: n-octanol/water	Not known.
Auto-ignition temperature	Not known.
Decomposition Temperature (°C)	Not known.
Viscosity	Not known.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

**9.2 Other information**

None.

**SECTION 10: STABILITY AND REACTIVITY****10.1 Reactivity**

Stable under normal conditions.

**10.2 Chemical Stability**

Stable under normal conditions.

**10.3 Possibility of hazardous reactions**

No hazardous reactions known if used for its intended purpose.

**10.4 Conditions to avoid**

Heat and direct sunlight.

**10.5 Incompatible materials**

Strong oxidising agents, Acids.

**10.6 Hazardous decomposition products**

No hazardous decomposition products known.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects**

Acute toxicity - Ingestion	Calculation method : Harmful if swallowed. Calculation method : Calculated acute toxicity estimate (ATE) Calc ATE - 454.55000
Acute toxicity - Skin Contact	Calculation method : Not classified. Calculation method : Calculated acute toxicity estimate (ATE) Calc ATE - 11000.00000
Acute toxicity - Inhalation	Calculation method : Toxic if inhaled. Calculation method : Calculated acute toxicity estimate (ATE) Calc ATE - 5.00000
Skin corrosion/irritation	Calculation method : Causes severe skin burns and eye damage.

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Serious eye damage/irritation  
Skin sensitization data  
Respiratory sensitization data

Germ cell mutagenicity  
Carcinogenicity  
Reproductive toxicity  
Lactation  
STOT - single exposure  
STOT - repeated exposure

Aspiration hazard

**11.2 Other information**

Calculation method : Causes serious eye damage.  
Calculation method : May cause an allergic skin reaction.  
Calculation method : May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
Calculation method : May cause genetic defects.  
Calculation method : May cause cancer.  
Calculation method : May damage fertility. May damage the unborn child.  
Calculation method : Not classified.  
Calculation method : May cause respiratory irritation.  
Calculation method : Causes damage to organs through prolonged or repeated exposure.  
Calculation method : Not classified.

Not known.

**SECTION 12: ECOLOGICAL INFORMATION****12.1 Toxicity**

Toxicity - Aquatic invertebrates  
Toxicity - Fish  
Toxicity - Algae  
Toxicity - Sediment Compartment  
Toxicity - Terrestrial Compartment

Toxic to aquatic life. Toxic to aquatic life with long lasting effects.  
Not known.  
Not known.  
Not known.  
Not classified.  
Not classified.

**12.2 Persistence and degradability**

No information on this formulation.

**12.3 Bioaccumulative potential**

No information on this formulation.

**12.4 Mobility in soil**

Soluble in water. The product is predicted to have high mobility in soil.

**12.5 Results of PBT and vPvB assessment**

Not classified as PBT or vPvB.

**12.6 Other adverse effects**

Not known.

**SECTION 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

Dispose of this material and its container as hazardous waste.

**13.2 Additional Information**

Disposal should be in accordance with local, state or national legislation.

**SECTION 14: TRANSPORT INFORMATION****14.1 UN number**

UN No. 3264

**14.2 UN proper shipping name**

UN proper shipping name CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Contains: sodium dichromate)

**14.3 Transport hazard class(es)**

ADR/RID

ADR/RID Class 8

ADR Classification Code C1

Special Provisions 274

Limited Quantities 5 L

Excepted Quantities E1

Emergency Action Code 2X

Mixed Packing Instructions for Packages P001 IBC03 LP01 R001

Special Packing Provisions for Packages

Mixed Packing Instructions for Packages MP19

Packing Instructions for Portable Tanks T7

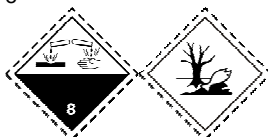
Special Provisions for Portable Tanks TP1 TP28

Tank Code for Tanks L4BN

Special Provisions for Tanks

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Vehicle for Tank Carriage	AT
ADR Transport Category	3
Tunnel Restriction Code	E
Special Provisions for Carriage - Packages	V12
Special Provisions for Carriage - Bulk	
Special Provisions for Carriage - Loading, Unloading and Handling	
Special Provisions for Carriage - Operation	
ADR HIN	80
IMDG	
IMDG Class	8
Special Provisions	274
Limited Quantities	5 L
Excepted Quantities	E1
Mixed Packing Instructions for Packages	P001 IBC03 LP01 R001
Special Packing Provisions for Packages	
Packing Instructions for Portable Tanks	T7
Special Provisions for Portable Tanks	TP1 TP28
IMDG EMS	F-A, S-B
Stowage and Handling	Category A SW2
Segregation	SGG1 SG36 SG49
Marine Pollutant	
ICAO/IATA	
IATA Proper Shipping Name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Contains: sodium dichromate)
Excepted Quantities	E1
Passenger and Cargo Aircraft Limited Quantities Packing Instructions	Y841
Passenger and Cargo Aircraft Limited Quantities Max net Qty	1L
Passenger and Cargo Aircraft Packing Instructions	852
Passenger and Cargo Aircraft Max net Qty	5L
Cargo Aircraft Packing Instructions	856
Cargo Aircraft Max net Qty	60L
Special Provisions	A3, A803
Emergency Response Guidebook (ERG) Code	8L
Labels	
Labels	8

**14.4 Packing group**

Packing group III

**14.5 Environmental hazards**

Environmental hazards Classified as a Marine Pollutant.

**14.6 Special precautions for user**

Special precautions for user Not known.

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

No information available

**SECTION 15: REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

United Kingdom Regulations - Authorisations and/or Restrictions On Use  
UK REACH Candidate List of Substances sodium dichromate (10588-01-9)  
of Very High Concern for Authorisation  
UK REACH Authorisation List (Annex XIV) list of substances subject to  
authorisation sodium dichromate (10588-01-9)

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UK REACH Restrictions List (Annex XIV) Toxic to reproduction: category 1B (10588-01-9), manganese dichloride (7773-01-5), Iron dichloride (7758-94-3), hydrochloric acid ... % ()  
Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

The Persistent Organic Pollutants Regulations 2007 (SI 2007/3106) as amended Not listed

The Ozone-Depleting Substances and Fluorinated Greenhouse Gases (Amendment etc.) (EU Exit) Regulations 2019 (SI 2019/583) Not listed

The Prior Informed Consent (PIC) Regulations concerning the export and import of hazardous chemicals SI2008/2108 as amended Not listed

European Regulations - Authorisations and/or Restrictions On Use Community Rolling Action Plan (CoRAP) Not listed

**15.2 Chemical Safety Assessment**

United Kingdom

A REACH chemical safety assessment has not been carried out.

**SECTION 16: OTHER INFORMATION**

The following sections contain revisions or new statements:

1-16

**LEGEND**

Hazard Pictogram(s)



GHS06



GHS05



GHS08



GHS09

GHS03: GHS: Flame over circle

GHS07: GHS: Exclamation mark

Hazard classification

Ox. Sol. 2 : Oxidising solid, Category 2  
Met. Corr. 1 : Substance or mixture corrosive to metals, Category 1  
Acute Tox. 3 : Acute toxicity, Category 3  
Acute Tox. 4 : Acute toxicity, Category 4  
Acute Tox. 4 : Acute toxicity, Category 4  
Skin Corr. 1B : Skin corrosion/irritation, Category 1B  
Skin Sens. 1 : Skin sensitization, Category 1  
Eye Dam. 1 : Serious eye damage/irritation, Category 1  
Acute Tox. 2 : Acute toxicity, Category 2  
Acute Tox. 3 : Acute toxicity, Category 3  
Resp. Sens. 1 : Respiratory sensitization, Category 1  
STOT SE 3 : Specific target organ toxicity — single exposure, Category 3  
Muta. 1B : Germ cell mutagenicity, Category 1B  
Carc. 1B : Carcinogenicity, Category 1B  
Repr. 1B : Reproductive toxicity, Category 1B  
STOT RE 1 : Specific target organ toxicity — repeated exposure, Category 1  
STOT RE 2 : Specific target organ toxicity — repeated exposure, Category 2  
Aquatic Acute 1 : Hazardous to the aquatic environment, Acute, Category 1  
Aquatic Chronic 1 : Hazardous to the aquatic environment, Chronic, Category 1  
Aquatic Chronic 2 : Hazardous to the aquatic environment, Chronic, Category 2

Hazard Statement(s)

H272: May intensify fire; oxidiser.  
H290: May be corrosive to metals.

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H301: Toxic if swallowed.  
H302: Harmful if swallowed.  
H312: Harmful in contact with skin.  
H314: Causes severe skin burns and eye damage.  
H317: May cause an allergic skin reaction.  
H318: Causes serious eye damage.  
H330: Fatal if inhaled.  
H331: Toxic if inhaled.  
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335: May cause respiratory irritation.  
H340: May cause genetic defects.  
H350: May cause cancer.  
H360FD: May damage fertility. May damage the unborn child.  
H372: Causes damage to organs through prolonged or repeated exposure.  
H373: May cause damage to organs through prolonged or repeated exposure.  
H400: Very toxic to aquatic life.  
H410: Very toxic to aquatic life with long lasting effects.  
H411: Toxic to aquatic life with long lasting effects.

**Precautionary Statement(s)**

P201: Obtain special instructions before use.  
P202: Do not handle until all safety precautions have been read and understood.  
P260: Do not breathe vapour.  
P261: Avoid breathing vapours.  
P264: Wash hands and exposed skin thoroughly after handling.  
P270: Do not eat, drink or smoke when using this product.  
P271: Use only outdoors or in a well-ventilated area.  
P272: Contaminated work clothing should not be allowed out of the workplace.  
P273: Avoid release to the environment.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P284: In case of inadequate ventilation wear respiratory protection.  
P301+P312: IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.  
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P302+P352: IF ON SKIN: Wash with plenty of water.  
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308+P313: IF exposed or concerned: Get medical advice/attention.  
P310: Immediately call a POISON CENTRE/doctor.  
P311: Call a POISON CENTRE/doctor.  
P312: Call a POISON CENTRE/doctor if you feel unwell.  
P314: Get medical advice/attention if you feel unwell.  
P321: Specific treatment (see Medical Advice on this label).  
P330: Rinse mouth.  
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.  
P342+P311: If experiencing respiratory symptoms: Call a POISON CENTRE/doctor.  
P362+P364: Take off contaminated clothing and wash it before reuse.  
P363: Wash contaminated clothing before reuse.  
P391: Collect spillage.  
P403+P233: Store in a well-ventilated place. Keep container tightly closed.  
P405: Store locked up.  
P501: Dispose of contents in accordance with local, state or national legislation.  
ADN : European Agreement concerning the International Carriage of Dangerous

**Acronyms**



## Bronze Acid Stain

Goods by Inland Waterways

ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE : Acute Toxicity Estimate

CAS : Chemical Abstracts Service

DNEL : Derived No Effect Level

EC : European Community

EINECS : European Inventory of Existing Commercial Chemical Substances

IATA : International Air Transport Association

IBC : Intermediate Bulk Container

ICAO : International Civil Aviation Organization

IMDG : International Maritime Dangerous Goods

LTCL : Long term exposure limit

PBT : Persistent, Bioaccumulative and Toxic

PNEC : Predicted No Effect Concentration

REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals

RID : Regulations concerning the International Carriage of Dangerous Goods by Rail

STEL : Short term exposure limit

STOT : Specific Target Organ Toxicity

UN : United Nations

vPvB : very Persistent and very Bioaccumulative

Key literature references and sources for GB CLP Regulation, UK SI 2019/720 and UK SI 2020/1567 data used to compile the SDS

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