	SAFETY DATA SHEET	Page : 1 / 13
		Revision nr : 2.1
		Issue date : 09/03/2015
	BRONZE PASTE ME	Supersedes : 30/08/2012

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name/designation : BRONZE PASTE ME
Product code : 2500, 3000, 36, 4000, 5000, 6000, 9000, 13000, FT / ME / 80-20, 85-15, 90-10, 95-5 Basic Colour: Rich Gold, Pale Gold, Rich Pale Gold & Deep Gold

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

Main use category : Industrial uses, Professional uses .

1.3. Details of the supplier of the safety data sheet

Company : AVL METAL POWDERS n.v.
Elleboogstraat 7
B-8500 Kortrijk , Belgium, Europe
Telephone +32 (0)56 22 00 21
Telefax: +32 (0)56 22 64 14
E-mail: sales@avlmetalpowders.com
Website: www.avlmetalpowders.com
VAT: BE 0405 375 371 - RPR Kortrijk

1.4. Emergency telephone number

Emergency telephone : +32 (0)475 38 36 83 (This telephone number is available 24 hours per day, 7 days per week.)

IRELAND (REPUBLIC OF)

National Poisons Information Centre
Beaumont Hospital +353 18 37 99 64/+353 1 809 21 66

UNITED KINGDOM

National Poisons Information Service
(Newcastle Centre) 0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours)
Regional Drugs and Therapeutics Centre,
Wolfson Unit

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification according to Regulation (EU) 1272/2008

CLP-Classification : The product is classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

Aquatic Acute 1 H400

Aquatic Chronic 1 H410

Full text of H-phrases: see section 16


2.1.2. Classification according to EU Directives 67/548/EEC or 1999/45/EC

Classification : This mixture is classified as hazardous according to 1999/45/EC.
N; R50/53

Full text of R-phrases: see section 16

2.2. Label elements

2.2.1. Labelling according to Regulation (EU) 1272/2008

	SAFETY DATA SHEET	Page : 2 / 13
		Revision nr : 2.1
	BRONZE PASTE ME	Issue date : 09/03/2015
		Supersedes : 30/08/2012

Hazard pictograms :



GHS09

Signal word : Warning
Hazard statements : H410 - Very toxic to aquatic life with long lasting effects.
Precautionary statements : P273 - Avoid release to the environment.
P391 - Collect spillage.

2.2.2. Labelling according to Directives (67/548 - 1999/45)

Not relevant

2.3. Other hazards

Other hazards : PBT/vPvB data :
This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).
This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Substance name	Product identifier	%	Classification according to Directive 67/548/EEC
copper	(CAS No.) 7440-50-8 (EC No) 231-159-6 (REACH-no) 01-2119480154-42-XXXX	56 - 85,5	N; R50 R53
Zinc	(CAS No.) 7440-66-6 (EC No) 231-175-3 (EC Index) 030-001-01-9 (REACH-no) 01-2119467174-37-XXXX	8 - 28,5	N; R50/53
Mineral oil	(CAS No.) 8042-47-5 (EC No) 232-455-8 (EC Index) - (REACH-no) 01-2119487078-27-XXXX	5 - 20	Not classified

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
copper	(CAS No.) 7440-50-8 (EC No) 231-159-6 (REACH-no) 01-2119480154-42-XXXX	56 - 85,5	Aquatic Acute 1, H400 (M=10) Aquatic Chronic 3, H412
Zinc	(CAS No.) 7440-66-6 (EC No) 231-175-3 (EC Index) 030-001-01-9 (REACH-no) 01-2119467174-37-XXXX	8 - 28,5	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Mineral oil	(CAS No.) 8042-47-5 (EC No) 232-455-8 (EC Index) - (REACH-no) 01-2119487078-27-XXXX	5 - 20	Not classified

Full text of R- and H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation : Provide fresh air.
Keep at rest.
When in doubt or if symptoms are observed, get medical advice.

	SAFETY DATA SHEET	Page : 3 / 13
		Revision nr : 2.1
		Issue date : 09/03/2015
	BRONZE PASTE ME	Supersedes : 30/08/2012

- Skin contact : Remove contaminated clothing and shoes.
Wash with plenty of water/
When in doubt or if symptoms are observed, get medical advice.
Wash contaminated clothing before reuse.
- Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Call a physician if irritation develops or persists.
- In case of ingestion : Rinse mouth immediately and drink plenty of water.
Do NOT induce vomiting.
Get medical advice/attention.
- Additional advice : First aider: Pay attention to self-protection!
See also section 8
Treat symptomatically.
Show this safety data sheet to the doctor in attendance.
When in doubt or if symptoms are observed, get medical advice.
Never give anything by mouth to an unconscious person or a person with cramps.

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

- Inhalation : Repeated or prolonged exposure: (dust) : May cause respiratory irritation.
- Skin contact : May be irritating.
- Eye contact : Dust contact with the eyes can lead to mechanical irritation.
- Ingestion : May be irritating.
- Other adverse effects : none.

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Foam, ABC-powder, Carbon dioxide, Dry sand
- Extinguishing media which must not be used : Water
for safety reasons:

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Non-flammable.
- Specific hazards : The pressure in sealed containers can increase under the influence of heat.
Burning produces noxious and toxic fumes.
Hazardous decomposition products CO_x,
metal oxides,
aldehydes,
Ketone,
Organic acids .
Do not allow run-off from fire-fighting to enter drains or water courses.
Dispose according to legislation.

5.3. Advice for firefighters

- Advice for firefighters : Special protective equipment for firefighters.
In case of fire: Wear self-contained breathing apparatus.
Use water spray jet to protect personnel and to cool endangered containers.
Evacuate area.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

	SAFETY DATA SHEET	Page : 4 / 13
		Revision nr : 2.1
	BRONZE PASTE ME	Issue date : 09/03/2015
		Supersedes : 30/08/2012

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel :
- Evacuate area.
 - Provide adequate ventilation.
 - Use personal protective equipment as required.
 - Personal protection equipment: see section 8
 - Avoid contact with skin, eyes and clothes.
 - Avoid generation of dust.
 - Do not breathe vapours/dust.
 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- For emergency responders :
- Ensure procedures and training for emergency decontamination and disposal are in place.
 - Personal protection equipment: see section 8.

6.2. Environmental precautions

- Environmental precautions :
- Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up :
- Stop leak if safe to do so.
 - Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
 - Collect in closed and suitable containers for disposal.
 - Dispose according to legislation.
 - Site should have a spill plan to ensure that adequate safeguards are in place to minimize the impact of episodic releases.

6.4. Reference to other sections

- Personal protection equipment: see section 8
Disposal: see section 13.


SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Handling :
- Use only in well-ventilated areas.
 - Provide adequate ventilation.
 - Use personal protective equipment as required.
 - Personal protection equipment: see section 8 .
 - Avoid contact with skin, eyes and clothes.
 - Avoid generation of dust.
 - Do not breathe vapours/dust.
 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 - Take any precaution to avoid mixing with incompatible materials.
 - See also section 10
 - Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time).
 - Do not allow to enter into surface water or drains.
- Advices on general occupational hygiene :
- Keep good industrial hygiene.
 - When using do not eat, drink or smoke.
 - Wash hands before breaks and immediately after using the product.
 - Take off contaminated clothing.

7.2. Conditions for safe storage, including any incompatibilities

- Storage :
- Flammable solids
 - Keep container tightly closed in a cool, well-ventilated place.
 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

	SAFETY DATA SHEET	Page : 5 / 13
		Revision nr : 2.1
		Issue date : 09/03/2015
	BRONZE PASTE ME	Supersedes : 30/08/2012

Protect from sunlight.
Protect from moisture.
Do not store near or with any of the incompatible materials listed in section 10.
Maximum storage period (time) :
12 months. (DN)/
6 months. (DPM, ME, PG, PGE8B)
Packaging materials : Keep/Store only in original container.

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values :

copper (7440-50-8)		
Austria	MAK (mg/m ³)	1 mg/m ³ (inhalable fraction) 0,1 mg/m ³ (respirable fraction, smoke)
Austria	MAK Short time value (mg/m ³)	4 mg/m ³ (inhalable fraction) 0,4 mg/m ³ (respirable fraction, smoke)
Belgium	Limit value (mg/m ³)	0,2 mg/m ³ (fume) 1 mg/m ³ (dust and mist)
Bulgaria	OEL TWA (mg/m ³)	0,1 mg/m ³ (metal vapor)
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	0,2 mg/m ³ (fume) 1 mg/m ³ (dust)
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³)	2 mg/m ³ (dust and fumes)
France	VLE (mg/m ³)	2 mg/m ³ (dust)
France	VME (mg/m ³)	0,2 mg/m ³ (fume) 1 mg/m ³ (dust)
Greece	OEL TWA (mg/m ³)	0,2 mg/m ³ (fume) 1 mg/m ³ (dust)
Greece	OEL STEL (mg/m ³)	2 mg/m ³ (dust)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	0,2 mg/m ³ (fume)
Latvia	OEL TWA (mg/m ³)	0,5 mg/m ³
Spain	VLA-ED (mg/m ³)	0,2 mg/m ³ (fume) 1 mg/m ³ (dust and mist)
Switzerland	VLE (mg/m ³)	0,2 mg/m ³ (inhalable)
Switzerland	VME (mg/m ³)	0,1 mg/m ³ (inhalable)
Netherlands	Grenswaarde TGG 8H (mg/m ³)	0,1 mg/m ³ (inhalable fraction)
United Kingdom	WEL TWA (mg/m ³)	1 mg/m ³ (dust and mists) 0,2 mg/m ³ (fume)
United Kingdom	WEL STEL (mg/m ³)	0,6 mg/m ³ (calculated-fume) 2 mg/m ³ (dust and mist)
Czech Republic	Expoziční limity (PEL) (mg/m ³)	1 mg/m ³ (dust) 0,1 mg/m ³ (fume)
Denmark	Grænseværdie (langvarig) (mg/m ³)	1,0 mg/m ³ (dust and powder) 0,1 mg/m ³ (fume)
Finland	HTP-arvo (8h) (mg/m ³)	1 mg/m ³ 0,1 mg/m ³ (respirable dust and fume)
Hungary	AK-érték	1 mg/m ³ 0,1 mg/m ³ (fume)

	SAFETY DATA SHEET	Page : 6 / 13
		Revision nr : 2.1
	BRONZE PASTE ME	Issue date : 09/03/2015
		Supersedes : 30/08/2012

Hungary	CK-érték	4 mg/m ³ 0,4 mg/m ³ (fume)
Ireland	OEL (8 hours ref) (mg/m ³)	0,2 mg/m ³ (fume) 1 mg/m ³ (dust and mist)
Ireland	OEL (15 min ref) (mg/m ³)	0,6 mg/m ³ (calculated-fume) 2 mg/m ³ (dust and mist)
Lithuania	IPRV (mg/m ³)	1 mg/m ³ (inhalable fraction) 0,2 mg/m ³ (respirable fraction)
Norway	Gjennomsnittsverdier (AN) (mg/m ³)	0,1 mg/m ³ (fume) 1 mg/m ³ (dust)
Norway	Gjennomsnittsverdier (Kortidsverdi) (mg/m ³)	0,3 mg/m ³ (fume) 3 mg/m ³ (dust)
Poland	NDS (mg/m ³)	0,2 mg/m ³
Romania	OEL TWA (mg/m ³)	0,50 mg/m ³ (powder)
Romania	OEL STEL (mg/m ³)	0,20 mg/m ³ (fume) 1,50 mg/m ³ (dust)
Slovakia	NPHV (priemerná) (mg/m ³)	1 mg/m ³ (dust) 0,1 mg/m ³ (fume)
Slovakia	NPHV (Hraničná) (mg/m ³)	2 mg/m ³ (dust) 0,2 mg/m ³ (fume)
Sweden	nivågränsvärde (NVG) (mg/m ³)	1 mg/m ³ (total dust) 0,2 mg/m ³ (respirable dust)

Zinc (7440-66-6)		
Switzerland	VLE (mg/m ³)	0,4 mg/m ³ (respirable)
Switzerland	VME (mg/m ³)	0,1 mg/m ³ (respirable) 2 mg/m ³ (inhalable)

Recommended monitoring procedures : Concentration measurement in air
Personal air monitoring

8.2. Exposure controls

Personal protection equipment : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.
Half-face mask (DIN EN 140) (EN 140)
Full face mask (EN 136) (EN 136)
Filter type: A/P (EN 141)

Hand protection : The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves.,Wear chemically resistant gloves (tested to EN374)

Eye protection : Safety glasses (EN 166)

Body protection : Wear suitable protective clothing.

Thermal hazard protection : Not required under normal use.

Engineering control measures : Provide adequate ventilation.
Use only in area provided with appropriate exhaust ventilation.
A washing facility/water for eye and skin cleaning purposes should be present.
Ensure that the equipment is adequately grounded.

	SAFETY DATA SHEET	Page : 7 / 13
		Revision nr : 2.1
	BRONZE PASTE ME	Issue date : 09/03/2015
		Supersedes : 30/08/2012

Take precautionary measures against static discharges.
Organisational measures to prevent/limit releases, dispersion and exposure
See also section 7

Environmental exposure controls : Do not allow to enter into surface water or drains.
Comply with applicable Community environmental protection legislation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	: Paste
Colour	: bronze
Odour	: characteristic
Odour threshold:	: No data available
Odour threshold:	: No data available
pH	: Not applicable
Melting point/freezing point	: 850 °C bronze
Initial boiling point and boiling range	: 2300 °C bronze
Flash point	: > 150 °C Solvent
Evaporation rate	: No data available
Flammability (solid, gas)	: Non-flammable.
Upper/lower flammability or explosive limits	: LEL: 0.45 - UEL: 7 vol % Solvent
Vapour pressure	: (20°C) < 0,013 kPa Solvent
Vapour density	: > 2 Solvent
Density	: (20 °C) 7,14 - 8,96 g/cm ³ bronze
Relative density	: (15°C) 0,84 - 0,91 bronze
Water solubility	: 0 % bronze 0 % Solvent
Solubility in different media	: No data available
Partition coefficient n-octanol/water	: > 3,5 Solvent
Auto-ignition temperature	: > 300 °C Solvent
Decomposition temperature	: No data available
Viscosity	: Dynamic viscosity (25°C) 3,7 mPa.s Solvent
Explosive properties	: Not applicable The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.
Oxidising properties	: Not applicable The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties.

9.2. Other information

No data available

	SAFETY DATA SHEET	Page : 8 / 13
		Revision nr : 2.1
	BRONZE PASTE ME	Issue date : 09/03/2015
		Supersedes : 30/08/2012

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity : None under normal conditions
Reference to other sections: 10.5

10.2. Chemical stability

Stability : The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions : None under normal processing.
Reference to other sections: 10.4 & 10.5

10.4. Conditions to avoid

Conditions to avoid : Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.
Avoid generation of dust.
See also section 7
Handling and storage

10.5. Incompatible materials

Incompatible materials : Acids and bases ., Oxidising substances ., Halogens, Halogenated compounds (Cl)., See also section 7, Handling and storage

10.6. Hazardous decomposition products

Hazardous decomposition products : Hazardous decomposition products formed under fire conditions.
Reference to other sections: 5.2

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met.)

Zinc (7440-66-6)	
LD50/oral/rat	2000 mg/kg (OECD 401)
LC50/inhalation/4h/rat	> 5,41 mg/m ³ (OECD 403)
ATE CLP (oral)	2000 mg/kg bodyweight

Mineral oil (8042-47-5)	
LD50/oral/rat	> 5000 mg/kg (OECD 401)
LD50/dermal/rabbit	> 2000 (OECD 402)
LC50/inhalation/4h/rat	> 5000 mg/m ³ (aerosol)

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met.)
pH: Not applicable

Serious eye damage/eye irritation : Not classified (Based on available data, the classification criteria are not met.)
pH: Not applicable


Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met.)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met.)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met.)

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met.)

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met.)

	SAFETY DATA SHEET	Page : 9 / 13
		Revision nr : 2.1
		Issue date : 09/03/2015
	BRONZE PASTE ME	Supersedes : 30/08/2012

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met.)

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met.)

Other information

Symptoms related to the physical, chemical and toxicological characteristics, Reference to other sections: 4.2

SECTION 12: Ecological information


12.1. Toxicity

Toxicity : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

copper (7440-50-8)	
LC50 fish 1	0,0068 - 0,0156 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
EC50 Daphnia 1	0,03 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 fish 2	< 0,3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 72h Algae [mg/l] (1)	0,0426 - 0,0535 mg/l (Species: Pseudokirchneriella subcapitata [static])
EC50 96h Algae [mg/l] (1)	0,031 - 0,054 mg/l (Species: Pseudokirchneriella subcapitata [static])

Zinc (7440-66-6)	
LC50 fish 1	439 µg/l Cottus bairdii (pH 6-6.5) 780 µg/l Pimephales promelas (fathead minnow) (pH 7-7.5) 330 µg/l Pimephales promelas (fathead minnow) (pH 8- 8.5) 500 µg/l Pimephales promelas (fathead minnow)
EC50 Daphnia 1	2909 - 2140 µg/l (OECD 202)
EC50 other aquatic organisms 1	(OECD 202) 0,937 mg/l Poecilia reticulata (Guppy) (OECD 202) 0,416 mg/l Ceriodaphnia Dubia (water flea)
EC50 72h Algae [mg/l] (1)	0,09 - 0,125 mg/l (Species: Pseudokirchneriella subcapitata [static])
EC50 96h Algae [mg/l] (1)	0,11 - 0,271 mg/l (Species: Pseudokirchneriella subcapitata [static])
LOEC (chronic)	240 µg/L Pimephales promelas (fathead minnow)
NOEC chronic fish	(30d) 169 µg/L Cottus bairdii
Additional information	NOEC, aquatic invertebrates, long term, Ceriodaphnia Dubia (water flea): 25 µg/L (7 days, freshwater) NOEC, aquatic invertebrates, long term, Daphnia magna (Big water flea): 100 µg/L (3 weeks, freshwater) NOEC, aquatic invertebrates, long term, Mytilus edulis: 75 µg/L (3 days, freshwater) NOEC, aquatic algae, Pseudokirchneriella subcapitata: 24 µg/L (72 hours, OECD 201) LOAEC, aquatic algae, Nitzschia closterium: 20 µg/L (4 days)

Mineral oil (8042-47-5)	
LC50 fish 1	(96h) > 10000 mg/l Lepomis macrochirus (Bluegill)

	SAFETY DATA SHEET	Page : 10 / 13
		Revision nr : 2.1
		Issue date : 09/03/2015
	BRONZE PASTE ME	Supersedes : 30/08/2012

Mineral oil (8042-47-5)	
Additional information	LLO, fish, acute: 100 - 10000 mg/l (96 hours, Information given is based on data obtained from similar substances.) ELO, daphnia, acute, Daphnia magna (Big water flea): 100 mg/l (48 hours, Information given is based on data obtained from similar substances.) ELO, algae, acute, Pseudokirchneriella subcapitata: 100 mg/l (72 hours, Information given is based on data obtained from similar substances.) NOELR, algae, Chronic, Pseudokirchneriella subcapitata: 100 mg/l (72 hours, Information given is based on data obtained from similar substances.) NOELR, daphnia, Chronic, Daphnia magna (Big water flea): 10 - 1000 mg/l (21 days, Information given is based on data obtained from similar substances.)

12.2. Persistence and degradability

Persistence and degradability : Solvent
Readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulation : No data available
Partition coefficient n-octanol/water : > 3,5 Solvent

12.4. Mobility in soil

Mobility : No data available

12.5. Results of PBT and vPvB assessment

PBT/vPvB data : PBT/vPvB data
This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).
This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

12.6. Other adverse effects

Other information : No data available

SECTION 13: Disposal considerations


13.1. Waste treatment methods

Product waste: : Handle with care.
Safe handling: see section 7
Handling and storage
Collect and dispose of waste product at an authorised disposal facility.
Refer to manufacturer/supplier for information on recovery/recycling.
If recycling is not practicable, dispose of in compliance with local regulations.
Dispose according to legislation.

Contaminated packaging : If recycling is not practicable, dispose of in compliance with local regulations.
Empty containers should be taken to local recyclers for disposal.
Do not burn, or use a cutting torch on, the empty drum.
Do not puncture or incinerate.

Further ecological information : Do not allow to enter into surface water or drains.

List of proposed waste codes/waste designations in accordance with EWC : Classified as hazardous waste according to European Union regulations.
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

	SAFETY DATA SHEET	Page : 11 / 13
		Revision nr : 2.1
	BRONZE PASTE ME	Issue date : 09/03/2015
		Supersedes : 30/08/2012

SECTION 14: Transport information

14.1. UN number

UN number : 3077

14.2. UN proper shipping name

Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Zinc Copper)
 Proper shipping name IATA/IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Zinc Copper)

14.3. Transport hazard class(es)

14.3.1. Overland transport

Class(es) : 9 - Miscellaneous dangerous substances and articles
 Hazard identification number (Kemler No.) : 90
 Classification code : M7
 ADR/RID-Labels : 9 - Miscellaneous dangerous substances and articles



14.3.2. Inland waterway transport (ADN)

Class (UN) : 9

14.3.3. Transport by sea

Class or Division : 9 - Miscellaneous dangerous substances and articles

14.3.4. Air transport

Class or Division : 9 - Miscellaneous dangerous substances and articles

14.4. Packing group

Packing group : III

14.5. Environmental hazards

Environmental hazards : N



Other information : No supplementary information available.

14.6. Special precautions for user

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

This product contains an ingredient according to the candidate list of Annex XIV of the REACH Regulation 1907/2006/EC.

: None

Authorisations

: Not applicable

	SAFETY DATA SHEET	Page : 12 / 13
		Revision nr : 2.1
	BRONZE PASTE ME	Issue date : 09/03/2015
		Supersedes : 30/08/2012

15.1.2. National regulations

DE : WGK	:	2
DE : German storage class (LGK)	:	LGK 4.1B - Flammable solids
DE : Technische Regeln für Gefahrstoffe (TRGS)	:	applicable
FR : Installations classées	:	1450;117x
NL : ABM	:	4 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. (A/B)

15.2. Chemical safety assessment

Chemical Safety Assessment	:	For the following substances of this preparation a chemical safety assessment has been carried out: Copper Zinc
----------------------------	---	---

SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

Aquatic Acute 1	:	Hazardous to the aquatic environment - Aquatic Acute 1
Aquatic Chronic 1	:	Hazardous to the aquatic environment - chronic hazard category 1
Aquatic Chronic 3	:	Hazardous to the aquatic environment - chronic hazard category 3
H400	:	Very toxic to aquatic life.
H410	:	Very toxic to aquatic life with long lasting effects.
H412	:	Harmful to aquatic life with long lasting effects.
R50	:	Very toxic to aquatic organisms.
R50/53	:	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R53	:	May cause long-term adverse effects in the aquatic environment.
N	:	Dangerous for the environment

Safety datasheet sections which have been updated : 14

Key literature references and sources for data : European Chemicals Agency, European Metal Particulate Association (EMPA)
Supplier SDS

Abbreviations and acronyms :

- ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin
- ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
- CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC
- IATA = International Air Transport Association
- IMDG = International Maritime Dangerous Goods Code
- LEL = Lower Explosive Limit/Lower Explosion Limit
- UEL = Upper Explosive Limit/Upper Explosive Limit
- REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
- TWA = time weighted average
- STEL = Short term exposure limit
- PBT = persistent, bioaccumulating and toxic (PBT).
- vPvB = very persistent and very bioaccumulating
- EWC = European Waste Catalogue
- NA = Not applicable
- LC50 = Median lethal concentration
- LD50 = Median lethal dose
- EC50 = Median Effective Concentration
- N.O.S. = Not Otherwise Specified
- WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)

	SAFETY DATA SHEET	Page : 13 / 13
		Revision nr : 2.1
	BRONZE PASTE ME	Issue date : 09/03/2015
		Supersedes : 30/08/2012

The contents and format of this SDS are in accordance with EEC Commission Directive 1999/45/EC, 67/548/EC, 1272/2008/EC and EEC Commission Regulation 1907/2006/EC (REACH) Annex II.

DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.