

SAFETY DATA SHEET

Copper shine polish

1. Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

Product name : Copper shine polish
Product use : Modern copper polish product.

Company/undertaking identification

Manufacturer : HG International b.v. **Telephone No.:** : +31 (0)36 54 94 700
Address : Damsluisweg 70 **Fax** : +31 (0)36 54 94 744
 1332 EJ Almere **Internet:** : www.hginternational.com
Country : Netherlands
Importer : HG UK
Address : Unit 11 Grange Way Business Park Whitehall Road Industrial Estate
 Uk Colchester Essex CO2 8HF
Telephone No.: : +44.1206.795.200
Fax : +44.1206.795.201
Country : United Kingdom (UK)

2. Composition/information on ingredients

Substance/preparation : Preparation

Ingredient name	CAS number	EC Number	%	Classification
United Kingdom (UK)				
silica, crystalline - quartz	14808-60-7	238-878-4	15 - 30	Not classified. 10 66, 67 Xi; 36
n-butyl acetate	123-86-4	204-658-1	1 - 5	
citric acid, monohydrate	5949-29-1	201-069-1	1 - 5	

See section 16 for the full text of the R Phrases declared above

* Occupational Exposure Limit(s), if available, are listed in Section 8

3. Hazards identification

The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Not classified.

See section 11 for more detailed information on health effects and symptoms.

4. First aid measures

First aid measures

Inhalation : If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention.

Ingestion : Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

Skin Contact : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Obtain medical attention.

Date of issue

11-10-2005.

Version

5.04

Page: 1/6

SAFETY DATA SHEET

Copper shine polish

- Eye contact** : In case of contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Get medical attention if irritation occurs.
- Notes to physician** : Not available.
- Specific treatments** : Not available.
- See section 11 for more detailed information on health effects and symptoms.

5. Fire-fighting measures

- Extinguishing media** : Use an extinguishing agent suitable for surrounding fires.
- Special exposure hazards** : No specific hazard.
Not available.
- Hazardous thermal decomposition products** : These products are carbon oxides (CO, CO₂). Some metallic oxides.
- Special protective equipment for fire-fighters** : Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

- Personal Precautions** : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8).
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- Methods for cleaning up** : If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

7. Handling and storage

- Handling** : Wash thoroughly after handling.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area.
- Packaging materials**
- Recommended** : Use original container.
- Specific uses** : Not available.

8. Exposure controls/personal protection

<u>Ingredient name</u>	<u>Occupational exposure limits</u>
<u>United Kingdom (UK)</u> silica, crystalline - quartz	EH40-WEL (United Kingdom (UK), 1/2005). TWA: 0,3 mg/m ³ 8 hour(s). Form: Respirable fraction
n-butyl acetate	EH40-WEL (United Kingdom (UK), 1/2005). STEL: 966 mg/m ³ 15 minute(s). Form: All forms STEL: 200 ppm 15 minute(s). Form: All forms TWA: 724 mg/m ³ 8 hour(s). Form: All forms TWA: 150 ppm 8 hour(s). Form: All forms

Exposure controls

Date of issue

11-10-2005.

Version

5.04

Page: 2/6

SAFETY DATA SHEET

Copper shine polish

Occupational exposure controls	: No special ventilation requirements.
Respiratory protection	: Wear appropriate respirator when ventilation is inadequate.
Hand protection	: Butyl rubber gloves. Permeation time >= 8 hours: (5 mm)
Eye protection	: splash goggles
Skin protection	: Work uniform or laboratory coat.

9. Physical and chemical properties

General information

Appearance	
Physical state	: Liquid. (Pasty)
Colour	: Yellowish.
Odour	: Characteristic.

Important health, safety and environmental information

pH	: 2.8 (Conc. (% w/w): 100) [Acidic.]
Melting point	: May start to solidify at 0°C (32°F) based on data for: Water. Weighted average: -6.36°C (20.6°F)
Boiling point	: The lowest known value is 100°C (212°F) (Water). Weighted average: 103.18°C (217.7°F)
Flash point	: Closed cup: Between 61°C (142°F) and 93.3°C (200°F). (Pensky-Martens.)
Flammability (solid, gas)	: Not applicable.
Explosive properties	: Not available.
Explosion Limits	: The greatest known range is Lower: 1.7% Upper: 7.5% (n-butyl acetate)
Oxidising properties	: Not applicable
Relative density	: 1.18 g/cm ³ (20°C / 68°F)
Solubility	: Easily soluble in hot water, methanol, diethyl ether, n-octanol. Soluble in cold water.
Viscosity	: Dynamic: The highest known value is 873 cP (siloxanes and silicones, di-me, me hydrogen, reaction products with polyethylene-polypropylene glycol monoacetate allyl ether) Kinematic (40C): The highest known value is 18.43 cSt (white mineral oil, petroleum)
Evaporation rate (butyl acetate = 1)	: 1 (n-butyl acetate) compared to Butyl acetate.

Other information

Auto-ignition temperature	: The lowest known value is 350°C (662°F) (siloxanes and silicones, di-me, me hydrogen, reaction products with polyethylene-polypropylene glycol monoacetate allyl ether).
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10. Stability and reactivity

Stability	: The product is stable.
Conditions to Avoid	: Stable under recommended storage and handling conditions (see section 7).
Materials to avoid	: Reactive with alkalis.
Hazardous Decomposition Products	: These products are carbon oxides (CO, CO ₂). Some metallic oxides.

SAFETY DATA SHEET

Copper shine polish

11. Toxicological information

Potential acute health effects

- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Skin Contact** : No known significant effects or critical hazards.
- Eye contact** : No known significant effects or critical hazards.

Acute toxicity

<u>Ingredient name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
n-butyl acetate	LD50	10770 mg/kg	Oral	Rat
	LD50	3200 mg/kg	Oral	Rabbit
	LD50	4300 mg/kg	Oral	Mammal
	LD50	>17600 mg/kg	Dermal	Rabbit
	LD50	>17600 mg/kg	Dermal	Rabbit
citric acid, monohydrate	LD50	>6730 mg/kg	Oral	Rat
	LD50	>5400 mg/kg	Oral	Mouse
	LD50	>7000 mg/kg	Oral	Rabbit
	LD50	11700 mg/kg	Dermal	Rat

- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Reproductive toxicity** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Skin** : No known significant effects or critical hazards.
- Target organs** : Contains material which causes damage to the following organs: lungs, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

- Other adverse effects** : Not available.

12. Ecological information

Ecotoxicity data

<u>Ingredient name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
n-butyl acetate	Pimephales promelas (EC50)	48 hour(s)	19 mg/l
	Pimephales promelas (LC50)	96 hour(s)	18 mg/l
	Lepomis macrochirus (LC50)	96 hour(s)	100 mg/l
citric acid, monohydrate	DAPHNIA MAGNA (LC50)	48 hour(s)	80 mg/l
	Algae (LC50)	48 hour(s)	80 to 640 mg/l
	Goldfish (LC50)	48 hour(s)	625 mg/l

Other ecological information

Persistence/degradability

<u>Ingredient name</u>	<u>Aquatic half-life</u>	<u>Photolysis</u>	<u>Biodegradability</u>
citric acid, monohydrate	-	-	Readily

No known significant effects or critical hazards.

Other adverse effects

Date of issue

11-10-2005.

Version

5.04

Page: 4/6

SAFETY DATA SHEET

Copper shine polish

13. Disposal considerations

- Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
- Waste classification** : Not applicable.
: Not available.
- Hazardous waste** : To present knowledge of the supplier, this product is not regarded as hazardous waste as defined by EU Directive 91/689/EC.

14. Transport information

International transport regulations

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional Information
ADR/RID Class	Not regulated.	-	-	-		Remarks Keep in frostfree area
ADN Class	Not regulated.	-	-	-		Remarks Keep in frostfree area
IMDG Class	Not regulated.	-	-	-		Remarks Keep in frostfree area
IATA-DGR Class	Not regulated.	-	-	-		Remarks Keep in frostfree area

15. Regulatory information

EU Regulations

- Risk Phrases** : This product is not classified according to the EU regulations.
- Safety Phrases** : S2- Keep out of the reach of children.
S46- If swallowed, seek medical advice immediately and show this container or label.
- Other EU regulations** : Not available.
- Product use** : Classification and labelling have been performed according to EU directives 67/548/EEC, 1999/45/EC, including amendments and the intended use.
- Consumer applications.
- Additional warning phrases** : Safety data sheet available for professional user on request.
- EC Statistical classification (Tariff Code)** : 32089091
- Ingredients identification information** : 5% or over but less than 15%: aliphatic hydrocarbons, non-ionic surfactants. ; preservation agents: (ethylenedioxy)dimethanol, 1,3-bis(hydroxymethyl)urea, [2-(2-butoxyethoxy)ethoxy] methanol, Methylchloroisothiazolinone, Methylisothiazolinone.

Date of issue

11-10-2005.

Version

5.04

Page: 5/6



This safety data sheet is prepared in accordance with EU directive 91/155/EC amended by Directive 2001/58/EC



SAFETY DATA SHEET

Copper shine polish

16. Other information

Full text of R phrases referred to in sections 2 and 3 - United Kingdom (UK) : R10- Flammable.
R36- Irritating to eyes.
R66- Repeated exposure may cause skin dryness or cracking.
R67- Vapours may cause drowsiness and dizziness.

Full text of classifications referred to in sections 2 and 3 - United Kingdom (UK) : Xi - Irritant

History

Date of printing : 11-10-2005.

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Version : 5.04

Verified by T. Rutgers.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Version 5.04

Page: 6/6