

SAFETY DATA SHEET

Silver, copper & brass polish-no-more-finish

Human health hazards : Irritating to eyes.
Repeated exposure may cause skin dryness or cracking.
Vapours may cause drowsiness and dizziness.

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 : Wash with soap and water. Get medical attention if irritation develops.

Eye contact : In case of contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Obtain medical attention immediately.

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).

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).
: Not applicable.
: Not applicable.

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

7. Handling and storage

Handling : Avoid contact with eyes. Keep container closed. Use only with adequate ventilation. Keep away from heat, sparks and flame. To avoid fire, minimize ignition sources. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Wash thoroughly after handling.

Storage : Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Segregate from oxidising materials.

Packaging materials

Recommended : Use original container.

Specific uses : Not available.

Date of issue

10-1-2006.

Version

5.04

Page: 2/7

SAFETY DATA SHEET

Silver, copper & brass polish-no-more-finish

8. Exposure controls/personal protection

<u>Ingredient name</u>	<u>Occupational exposure limits</u>
<u>United Kingdom (UK)</u>	
Acetone	EH40-WEL (United Kingdom (UK), 1/2005). STEL: 3620 mg/m ³ 15 minute(s). Form: All forms STEL: 1500 ppm 15 minute(s). Form: All forms TWA: 1210 mg/m ³ 8 hour(s). Form: All forms TWA: 500 ppm 8 hour(s). Form: All forms
Butanone	EH40-WEL (United Kingdom (UK), 1/2005). Skin STEL: 899 mg/m ³ 15 minute(s). Form: All forms STEL: 300 ppm 15 minute(s). Form: All forms TWA: 600 mg/m ³ 8 hour(s). Form: All forms TWA: 200 ppm 8 hour(s). Form: All forms
Butane	EH40-WEL (United Kingdom (UK), 1/2005). STEL: 1810 mg/m ³ 15 minute(s). Form: All forms STEL: 750 ppm 15 minute(s). Form: All forms TWA: 1450 mg/m ³ 8 hour(s). Form: All forms TWA: 600 ppm 8 hour(s). Form: All forms
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
2-butoxyethanol	EH40-WEL (United Kingdom (UK), 1/2005). Skin STEL: 50 ppm 15 minute(s). Form: All forms TWA: 25 ppm 8 hour(s). Form: All forms

Exposure controls

Occupational exposure controls

: Use local exhaust ventilation or handle in a ventilated enclosure. When using do not eat, drink or smoke. Use only in well-ventilated areas. Ventilation is normally required when handling or using this product.

Respiratory protection

: Ventilation is normally required when handling or using this product. Wear appropriate respirator when ventilation is inadequate.

Hand protection

: Chemical-resistant, impervious gloves or gauntlets complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
>8 hour(s) (breakthrough time): polyvinyl alcohol (PVA)

Eye protection

: safety glasses with side shields

Skin protection

: Work uniform or laboratory coat.

9. Physical and chemical properties

General information

Appearance

Physical state

: Gas. (Aerosol)

Colour

: Clear Colourless.

Odour

: Characteristic.

Important health, safety and environmental information

pH

: Not applicable.

Melting point

: -135.45°C (-211.8°F) based on data for: Alifatic propellant. Weighted average: -148.72°C (-235.7°F)

Boiling point

: -44°C (-47.2°F)

Date of issue

10-1-2006.

Version

5.04

Page: 3/7

SAFETY DATA SHEET

Silver, copper & brass polish-no-more-finish

Flash point	: Closed cup: <0°C (32°F). (Pensky-Martens.)
Flammability (solid, gas)	: Extremely flammable gas.
Explosive properties	: Not available.
Explosion Limits	: Lower: 1.5% Upper: 13%
Oxidising properties	: Not applicable
Relative density	: 0.755 g/cm ³ (20°C / 68°F)
Solubility	: Easily soluble in methanol, diethyl ether, n-octanol. Insoluble in cold water, hot water.

Other information

Auto-ignition temperature : 365°C (689°F)

10. Stability and reactivity

Stability	: The product is stable.
Conditions to Avoid	: Keep away from heat, sparks and flame. Avoid all possible sources of ignition (spark or flame). Stable under recommended storage and handling conditions (see section 7).
Materials to avoid	: Highly reactive with oxidising agents.
Hazardous Decomposition Products	: These products are carbon oxides (CO, CO ₂).

11. Toxicological information

Potential acute health effects

Inhalation	: Harmful by inhalation.
Ingestion	: Harmful if swallowed.
Skin Contact	: Harmful in contact with skin. Irritating to skin.
Eye contact	: Irritating to eyes.

Acute toxicity

<u>Ingredient name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
Acetone	LD50	5800 mg/kg	Oral	Rat
	LD50	5340 mg/kg	Oral	Rabbit
	LD50	20000 mg/kg	Dermal	Rabbit
Butanone	LD50	3300 mg/kg	Oral	Rat
	LD50	4050 mg/kg	Oral	Mouse
	LD50	6480 mg/kg	Dermal	Rabbit
	LD50	5000 mg/kg	Dermal	Rabbit
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
2-butoxyethanol	LD50	1480 mg/kg	Oral	Rat
	LD50	300 mg/kg	Oral	Rabbit
	LD50	1200 mg/kg	Oral	Guinea pig
	LD50	220 mg/kg	Dermal	Rabbit
	LD50	490 mg/kg	Dermal	Rat
	LD50	400 mg/kg	Dermal	Rabbit

Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.

SAFETY DATA SHEET

Silver, copper & brass polish-no-more-finish

- 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: blood, kidneys, lungs, the nervous system, liver, lymphatic system, peripheral nervous system, 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>
Acetone	Daphnia magna (EC50)	48 hour(s)	23.5 mg/l
	Pimephales promelas (EC50)	48 hour(s)	8990 mg/l
	Daphnia magna (EC50)	48 hour(s)	13500 mg/l
	Pimephales promelas (LC50)	96 hour(s)	>100 mg/l
	Daphnia magna (LC50)	96 hour(s)	>100 mg/l
	Oncorhynchus mykiss (LC50)	96 hour(s)	5540 mg/l
Butanone	Daphnia magna (EC50)	48 hour(s)	5091 mg/l
	Pimephales promelas (LC50)	96 hour(s)	3220 mg/l
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
2-butoxyethanol	Lepomis macrochirus (LC50)	96 hour(s)	1490 mg/l
	Daphnia (EC50)	24 hour(s)	5000 mg/l
	LEUCISCUS IDUS (LC50)	96 hour(s)	1880 mg/l

No known significant effects or critical hazards.

Other adverse effects

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.
- Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste

14. Transport information

International transport regulations

SAFETY DATA SHEET

Silver, copper & brass polish-no-more-finish

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional Information
ADR/RID Class	1950	UN 1950, "dangerous goods in limited quantities of class 2", III, Aerosol, ADR mixture (Acetone)	2.1	III		Reportable quantity 30 Remarks Dangerous goods in limited quantities
ADN Class	1950	UN 1950, "dangerous goods in limited quantities of class 2", III, Aerosol, ADNR mixture (Acetone)	2.2	-		RQ (Reportable quantity) ADN 30 Remarks Dangerous goods in limited quantities
IMDG Class	1950	"dangerous goods in limited quantities of class 2" UN 1950, Aerosol mixture (Acetone)	2.1	III		Emergency schedules (EmS) F-D, S-U Reportable quantity 30 Remarks Dangerous goods in limited quantities
IATA-DGR Class	1950	"dangerous goods in limited quantities of class 2" UN 1950, Aerosol mixture (Acetone)	2.1	III		-

15. Regulatory information

EU Regulations

Hazard symbol(s) :



Extremely flammable, Irritant

Risk Phrases :

- R12- Extremely flammable.
- R36- Irritating to eyes.
- R66- Repeated exposure may cause skin dryness or cracking.
- R67- Vapours may cause drowsiness and dizziness.

Safety Phrases :

- S2- Keep out of the reach of children.
- S23- Do not breathe spray.
- S25- Avoid contact with eyes.
- S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S46- If swallowed, seek medical advice immediately and show this container or label.
- S51- Use only in well-ventilated areas.

Date of issue

10-1-2006.

Version

5.04

Page: 6/7

SAFETY DATA SHEET

Silver, copper & brass polish-no-more-finish

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, Used by Spraying.

Other EU regulations

Additional warning phrases : Pressurised container: protect from sunlight and do not expose to temperature exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition. - Do not smoke.
Tactile warning of danger : Yes, applicable.
EC Statistical classification (Tariff Code) : 32089091
Ingredients identification information : 30% and more: aliphatic hydrocarbons.

16. Other information

Full text of R phrases referred to in sections 2 and 3 - United Kingdom (UK) : R12- Extremely flammable.
 R11- Highly flammable.
 R10- Flammable.
 R20/21/22- Harmful by inhalation, in contact with skin and if swallowed.
 R36- Irritating to eyes.
 R36/38- Irritating to eyes and skin.
 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) : F+ - Extremely flammable
 F - Highly flammable
 Xn - Harmful
 Xi - Irritant

History

Date of printing : 10-1-2006.
Date of issue : 10-1-2006.
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: 7/7
---------------------	------------------