

Material Safety Data Sheet (MSDS in EN ISO 11014 format)

GOLD LEAF

Version 02, page 1 of 4

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 Identification of the substance or preparations

Gold; Au; C.I. 77480; Gold flake; Gold leaf; Gold powder; E175; Varak.

1.2 Use of the substance / preparation

The main applications of gold – non-exhaustive list: Edible garnish, edible cake decoration, cosmetic colorant,

1.3 Undertaking

Producer	:CornucAupia Gold Leaf Manufacturers, Inc.
Address	513 Interstate Ct. Sarasota FL. 34240 United States of America
Phone	+1 (941) 342 - 1817
Fax	+1 (941) 342 - 1817

1.4 Emergency telephone

+1 (941) 342 – 1817

2. HAZARDS IDENTIFICATION

Although gold is not hazardous considering it does not chemically react in the human body, any respirable gold may cause health effects. Prolonged and/or massive inhalation of respirable gold may cause lung irritation. Avoid inhalation and use appropriate safety precautions if put at risk of large dose inhalation.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical	Au (ca. 99%)
Mineralogical	Strunz 1/A.01-40, Nickel-Strunz 1.AA.05, Dana 1.1.1.1, Hey's CIM 1.5
E.I.N.E.C.S.	231-165-9
C.A.S.	7440-57-5
EU-Classification	E175

4. FIRST AID MEASURES

No actions to be avoided, nor special instructions for rescuers.

Eye contact

wash with copious quantities of water.

Ingestion

Non-toxic.

Inhalation

No special first aid measures, breathe fresh air and consult a physician.

Skin contact

No special first aid measure necessary. Nontoxic.

5. FIRE-FIGHTING MEASURES

Does not burn. No hazardous releases in case of fire.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid dust formation. In case of exposure to dust over regulatory limits, wear a personal respirator in compliance with national legislation.

Environmental precautions

No special requirement.

Methods for cleaning up

Avoid dry sweeping and use water spraying or ventilated vacuum cleaning system to prevent dust formation.

7. HANDLING AND STORAGE

7.1. Handling

Avoid dust formation.

Provide appropriate exhaust ventilation at places where dust is formed. In case of insufficient ventilation, wear suitable respiratory equipment. Your supplier can advise you on safe handling, please contact him.

7.2. Storage

Technical measures / Precautions

Ensure trapping of dust produced during the use of the item. Keep containers closed and store in a way preventing accidental breaking.

7.3. Specific use(s)

When mixing with other substances the above mentioned safe handling advice shall apply.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Exposure limit values

Respect regulatory provisions for dust (total dust and respirable crystalline silica dust).

8.2. Exposure controls

8.2.1. Occupational exposure controls

Provide appropriate exhaust ventilation and filtering at the places where dust can be generated.

8.2.1.1. Respiratory protection

In case of exposure to airborne dust in large quantities wear a personal respirator in compliance with national legislation.

8.2.1.2. Eye protection

Not necessary unless exposed to airborne dust in large quantities.

8.2.2. Environmental exposure controls

No special requirements. There is no reported ecotoxicity for gold, a naturally occurring substance found throughout earth.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. General information

Appearance

yellow metal, solid, gold, flaked or sheets

Odor

odorless

9.2. Important health, safety, and environmental information

Density : 19.30g/cm³

Au : 99% (see chemical composition data sheet)

Shape : sheets, or angular flakes, crumbs, or powder shapes

Particle size range : 0.0004mm to 80mm – shortest to longest dimension (dependent on product)

Solubility in water : zero

9.3 Other information

Molecular weight : 196.966569

10. STABILITY AND REACTIVITY

Stable. May react with halogens, strong oxidizing agents, ammonia, hydrogen peroxide. Reaction with ammonia or hydrogen peroxide may form explosive materials.

11. TOXICOLOGICAL INFORMATION

Prolonged and/or massive exposure to respirable gold dust may cause lung irritation. May cause irritation if contact is made with eyes. It is recommended not to consume more than 15mg within a 24 hour period. Do not to consume the item unaccompanied. There is an apparent paradox of the actual toxicology of the substance, suggesting serious gaps in the understanding of gold in physiology¹, however, only salts and radioisotopes of gold are of pharmacological value as metallic gold is inert.

12. ECOLOGICAL INFORMATION

No specific adverse effect known.

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products

Can be melted together to form gold for other purposes.

Packing

No specific type of packaging is necessary for disposal of gold.

14. TRANSPORT INFORMATION

No special precaution required under regulation on the transport of gold unless otherwise legally required by local government agencies, particularly when transporting across borders. See local and destination regulations for details.

15. REGULATORY INFORMATION

The substance has not been classified as a dangerous substance or other preparation regulations at the US and European Union level, or abroad.

16. OTHER INFORMATION

Third party materials

Insofar as materials not manufactured or supplied by CornucAupia Gold Leaf Manufacturers, Inc. are used in conjunction with, or instead of CornucAupia Gold Leaf Manufacturers, Inc. materials, it is the responsibility of the customer himself, to obtain from the manufacturer or supplier, all technical data and other properties relating to these and other materials and to obtain all necessary information relating to them, no liability can be accepted in respect of the use of CornucAupia Gold Leaf Manufacturers, Inc. in conjunction with other materials.

Liability

Such information is the best of CornucAupia Gold Leaf Manufacturers, Inc. knowledge and belief accurate and reliability as of the date indicated. However, no representation, warranty, or guarantee is made to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy itself as to the suitability and completeness of such information for their own particular use.

References

¹.Merchant, B. (1998). "Gold, the Noble Metal and the Paradoxes of its Toxicology". *Biologicals* 26 (1): 49–59. [doi:10.1006/biol.1997.0123](https://doi.org/10.1006/biol.1997.0123).