

Safety Data Sheet
according to Regulation (EC) No 1907/2006

GoldGourmet Edible Gold Leaf products

Revision date: 08.01.2020

Page 1 of 10

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

GoldGourmet Edible Gold Leaves, Flakes, Powders, Shabin, Quadratus, Filament, Hearts

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

Manufacture of food products.

Uses advised against

Any non-intended use.

1.3. Details of the supplier of the safety data sheet

Company name:	J. G. Eytzinger GmbH	
Street:	Hansastr. 15	
Place:	D-91126 Schwabach	
Telephone:	0049 9122 97 65 0	
Responsible Department:	Dr. Gans-Eichler Chemieberatung GmbH Raesfeldstr. 22 D-48149 Münster	e-mail: info@tge-consult.de Tel.: +49(0)251/394868-69 www.tge-consult.de

1.4. Emergency telephone number: 0049 9122 97 65 0**Further Information**

Substance related information: E 175

Delivery form: edible gold leaf, flakes, powders, shabin, quadratus, filament, hearts

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

2.2. Label elements**Additional advice on labelling**

Labelling according to Regulation (EC) No. 1272/2008 [CLP]: none

2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
No risks worthy of mention. Please observe the information on the safety data sheet at all times.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Chemical characterization**

Edible gold E 175, conform to EU standard

The product does not contain dangerous substances according to REGULATION (EU) No. 2015/830, Annex II, Part A, 3.2.2. that must be mentioned in Chapter 3.

Safety Data Sheet
according to Regulation (EC) No 1907/2006

GoldGourmet Edible Gold Leaf products

Revision date: 08.01.2020

Page 2 of 10

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
7440-57-5	Gold, massive > 1mm			Minimum 90,0 %
	231-165-9			
7440-22-4	Silver > = 99.9% Ag massive (> 1 mm)			Varying, max. 7,0 %
	231-131-3			
7440-50-8	Copper, massive			Varying, max. 4,0%
	231-131-3			

Further information

Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH).

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician.

After contact with skin

Gently wash with plenty of soap and water. In case of skin irritation, seek medical treatment.

After contact with eyes

Rinse cautiously with water for several minutes. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

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

No information available.

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

Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide (CO₂). Dry extinguishing powder. Alcohol resistant foam. Atomized water.

Unsuitable extinguishing media

Safety Data Sheet
according to Regulation (EC) No 1907/2006

GoldGourmet Edible Gold Leaf products

Revision date: 08.01.2020

Page 3 of 10

High power water jet.

5.2. Special hazards arising from the substance or mixtureCan be released in case of fire: Carbon monoxide Carbon dioxide (CO₂).**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.
Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Avoid dust formation.
Do not breathe dust.
Wear personal protection equipment (refer to section 8).

6.2. Environmental precautions

Discharge into the environment must be avoided.

6.3. Methods and material for containment and cleaning up

Take up mechanically.
Treat the recovered material as prescribed in the section on waste disposal.
Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Wear personal protection equipment (refer to section 8).

Advice on protection against fire and explosion

Usual measures for fire prevention. Dust clouds may present an explosion hazard.

Further information on handling

Avoid generation of dust.
General protection and hygiene measures: refer to chapter 8

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed in a cool, well-ventilated place.

Advice on storage compatibility

Safety Data Sheet
according to Regulation (EC) No 1907/2006

GoldGourmet Edible Gold Leaf products

Revision date: 08.01.2020

Page 4 of 10

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious substances. Food and animal feedingstuff.

Further information on storage conditions

Keep the packing dry and well-sealed to prevent contamination and absorption of humidity.
Recommended storage temperature: 20°C, Shelf Life (months): 72
Protect against: Light. UV-radiation/sunlight. Heat. Moisture.

7.3. Specific end use(s)

See section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters**Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
7440-22-4	Silver, metallic	-	0.1		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL
7440-50-8	Copper, dusts and mists (as Cu)	-	1		TWA (8 h)	WEL
		-	2		STEL (15 min)	WEL

8.2. Exposure controls**Appropriate engineering controls**

Dust should be exhausted directly at the point of origin.

Protective and hygiene measures

Always close containers tightly after the removal of product. When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work.

Eye/face protection

Dust protection goggles.

Hand protection

In case of prolonged or frequently repeated skin contact:

Wear suitable gloves.

Suitable material:

FKM (fluororubber). - Thickness of glove material: 0,4 mm

Breakthrough time \geq 8 h

Butyl rubber. - Thickness of glove material: 0,5 mm

Breakthrough time \geq 8 h

CR (polychloroprenes, Chloroprene rubber). - Thickness of glove material: 0,5 mm

Breakthrough time \geq 8 h

NBR (Nitrile rubber). - Thickness of glove material: 0,35 mm

Breakthrough time \geq 8 h

PVC (Polyvinyl chloride). - Thickness of glove material: 0,5 mm

Breakthrough time \geq 8 h

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Before using check leak tightness / impermeability. In the case of wanting to use the gloves again, clean them before taking off and air them well.

Skin protection

Suitable protective clothing: Protective clothing.

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Safety Data Sheet
according to Regulation (EC) No 1907/2006

GoldGourmet Edible Gold Leaf products

Revision date: 08.01.2020

Page 5 of 10

Respiratory protection necessary at:

- exceeding exposure limit values
- insufficient ventilation and generation/formation of dust

Suitable respiratory protective equipment: particulates filter device (DIN EN 143). Type: P1-3

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

Environmental exposure controls

No special precautionary measures are necessary.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	solid in various forms
Colour:	golden
Odour:	odourless
pH-Value:	not determined

Changes in the physical state

Melting point:	1064°C
Initial boiling point and boiling range:	not determined
Sublimation point:	not determined
Softening point:	not determined
Pour point:	not determined
Flash point:	not determined
Sustaining combustion:	Not sustaining combustion
Explosive properties:	none

Lower explosion limits:	not determined
Upper explosion limits:	not determined
Ignition temperature:	not determined

Auto-ignition temperature

Gas:	not determined
Decomposition temperature:	not determined

Oxidizing properties

Vapour pressure:	not determined
Density:	not determined
Bulk density:	not determined
Water solubility:	insoluble
Solubility in other solvents:	not determined
Partition coefficient:	not determined
Viscosity / dynamic	not determined
Viscosity / kinematic:	not determined
Flow time:	not applicable
Vapour density:	not applicable
Evaporation rate:	not applicable
Solvent separation test:	not applicable
Solvent content:	not determined

9.2 Other information

Solid content:	not determined
Thin gold leaves about 0,000125 mm	

SECTION 10: Stability and reactivity

Safety Data Sheet
according to Regulation (EC) No 1907/2006

GoldGourmet Edible Gold Leaf products

Revision date: 08.01.2020

Page 6 of 10

10.1 Reactivity

No information available.

10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 Possibility of hazardous reactions

No information available.

10.4 Conditions to avoid

Protect against: UV-radiation/sunlight, heat.

10.5 Incompatible materials

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong.

10.6 Hazardous decomposition productsCan be released in case of fire: Carbon monoxide, Carbon dioxide (CO₂).**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Toxicokinetics, metabolism and distribution**

No data available.

Acute toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
7440-22-4	Silver >= 99.9% Ag massive (> 1 mm)				
	oral	LD50 > 5000 mg / kg	Mouse	J. Vet. Med. Sci. 73: 1417 – 1423. (2011)	OECD Guideline 425
	dermal	LD50 > 348 mg / kg	Guinea Pig	J. Vet. Med. Sci. 73: 1417 – 1423. (2011)	OECD Guideline 425
7440-50-8	Copper, massive				
	oral	LD50 > 2500 mg / kg	Rat	ECHA Dossier	WoE
	dermal	LD50 > 2000 mg / kg	Rat	ECHA Dossier	WoE

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Safety Data Sheet
according to Regulation (EC) No 1907/2006

GoldGourmet Edible Gold Leaf products

Revision date: 08.01.2020

Page 7 of 10

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Specific effects in experiment on animal

No data available.

SECTION 12: Ecological information**12.1 Toxicity**

The product has not been tested.

CAS No	Chemical name			[h] [d]	Species	Source	Method
7440-22-4	Silver > = 99.9% Ag massive (> 1 mm)						
	Acute fish toxicity	LC50 [0,0012-161] mg/l	96 h	Fish	REACH Dossier		
	Acute algae toxicity	ErC50 [0,00082-0,21] mg/l		Pseudokirchneriella subcapitata	REACH Dossier		
	Acute crustacea toxicity	EC50 [0,00022-5,3] mg/l	48 h	Crustacea	REACH Dossier		
	Fish toxicity	NOEC [0,00037-1,5] mg/l		Fish [7-73d]	REACH Dossier		
	Algae toxicity	NOEC [0,0012] mg/l	14 d	Champia parvula	REACH Dossier		
	Crustacea toxicity	NOEC [0,000057-0,125] mg/l		Crustacea [7-28d]	REACH Dossier		
	Acute bacteria toxicity	(0,47 mg/l)	3 h	Nitrosomonas sp.	REACH Dossier		
7440-50-8	Copper, massive						
	Acute fish toxicity	LC50 [0,004-1,1] mg/l	96 h	Fish	ECHA Dossier	READ ACROSS	
	Acute algae toxicity	ErC50 [0,018-0,987] mg/l		Algae (72-96h)	ECHA Dossier	READ ACROSS	
	Acute crustacea toxicity	EC50 [0,001-0,792] mg/l	48 h	Daphnia	ECHA Dossier	READ ACROSS	
	Fish toxicity	NOEC [0,002-0,188] mg/l		Fish [4-330d]	ECHA Dossier	READ ACROSS	
	Algae toxicity	NOEC [0,01-0,05] mg/l	14 d	Algae (10-19d)	ECHA Dossier	READ ACROSS	
	Crustacea toxicity	NOEC [0,004-0,145] mg/l		Daphnia (4-240d)	ECHA Dossier	READ ACROSS	

12.2 Persistence and degradability

The product has not been tested.

12.3 Bioaccumulative potential

No indication of bioaccumulation potential.

CAS No	Chemical Name	BCF	Species	Source
7440-22-4	Silver > = 99,9% Ag massive (> 1mm)	0,52	Eisenia fetida	REACH Dossier
7440-50-8	Copper, massive	0,02 – 20	Crangon crangon	

Safety Data Sheet
according to Regulation (EC) No 1907/2006

GoldGourmet Edible Gold Leaf products

Revision date: 08.01.2020

Page 8 of 10

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Other adverse effects

No data available.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Advice on disposal**

Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal.

Non-contaminated packages may be recycled.

According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Control report for waste code/waste marking according to EAKV:

Waste disposal number of waste from residues/unused products

200140 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTION WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); Metals

Waste disposal number of used product

200140 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); Metals

Waste disposal number of contaminated packaging

150106 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); mixed packaging

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information**Land transport (ADR/RID)****14.1. UN number:**

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

14.4. Packing group:

No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)**14.1. UN number:**

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

14.4. Packing group:

No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

Safety Data Sheet
according to Regulation (EC) No 1907/2006

GoldGourmet Edible Gold Leaf products

Revision date: 08.01.2020

Page 9 of 10

<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.
<u>14.2. UN proper shipping name:</u>	No dangerous good in sense of this transport regulation.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.
<u>14.4. Packing group:</u>	No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.
<u>14.2. UN proper shipping name:</u>	No dangerous good in sense of this transport regulation.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.
<u>14.4. Packing group:</u>	No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user:

refer to chapter 6-8

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

not relevant

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**EU regulatory information**

2010/75/EU (VOC):	0%
2004/42/EC (VOC):	0 g/L
Information according to 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)

Additional information

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].
REACH 1907/2006 Appendix XVII, No (mixture): not relevant.

National regulatory information

Water contaminating class (D): - - not water contaminating

15.2 Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

SECTION 16: Other information

Changes

Rev. 1.0, Initial release 23.07.2018

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route
CAS Chemical Abstracts Service
DNEL: Derived No Effect Level
IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

Safety Data Sheet
according to Regulation (EC) No 1907/2006

GoldGourmet Edible Gold Leaf products

Revision date: 08.01.2020

Page 10 of 10

LOAEL: Lowest observed adverse effect level
LOAEC: Lowest observed adverse effect concentration
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
NOAEL: No observed adverse effect level
NOAEC: No observed adverse effect level
NTP: National Toxicology Program
N/A: not applicable
OSHA: Occupational Safety and Health Administration
PNEC: predicted no effect concentration
PBT: Persistent bioaccumulative toxic
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
SARA: Superfund Amendments and Reauthorization Act
SVHC: substance of very high concern
TRGS Technische Regeln fuer Gefahrstoffe
TSCA: Toxic Substances Control Act
VOC: Volatile Organic Compounds
VwVwS: Verwaltungsvorschrift wassergefaehrdender Stoffe
WGK: Wassergefaehrungsklasse

Further Information

Classification according EC regulation 1272/2008 (CLP): - Classification procedure:

Health hazards: Calculation method.

Physical hazards: On basis of test data and / or calculated and / or estimated.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)