

## **VISIONAIRE Bright Sunflower Gold**

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 03/21/2018

 3.0
 12/06/2019
 102000029175
 Date of first issue: 02/22/2018

#### **SECTION 1. IDENTIFICATION**

Product name : VISIONAIRE Bright Sunflower Gold

Product code : 060243QP0

Manufacturer or supplier's details

Company name of supplier : ECKART America Corporation

Address : 830 East Erie Street

Painesville OH 44077

Telephone : 866-458-7837 Telefax : (440) 354-6224

Emergency telephone : CHEMTREC: 800-424-9300

CHEMTREC: 1-703-527-3387 (International)

NCEC:

(contract no. ECKART29003-NCEC) US: +1 866 928 0789 (Toll free) Canada: +1 800 579 7421 (Toll Free)

Mexico: +52 55 5004 8763

#### **SECTION 2. HAZARDS IDENTIFICATION**

GHS classification in accordance with 29 CFR 1910.1200

Combustible dust

Acute toxicity (Oral) : Category 4

**GHS** label elements

Hazard pictograms



Signal Word : Warning

Hazard Statements : May form combustible dust concentrations in air.

H302 Harmful if swallowed.

Precautionary Statements :

Prevention:

P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this

product.

Response:



## **VISIONAIRE Bright Sunflower Gold**

Version Revision Date: SDS Number: Date of last issue: 03/21/2018 3.0 12/06/2019 102000029175 Date of first issue: 02/22/2018

> IF SWALLOWED: Call a POISON P301 + P312 + P330

> > CENTER/doctor if you feel unwell. Rinse

mouth.

Disposal:

P501 Dispose of contents/ container to an approved

waste disposal plant.

Hazardous ingredients which must be listed on the label:

Copper

Other hazards

None known.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

## Hazardous ingredients

Chemical name	CAS-No.	Concentration (% w/w)
Copper	7440-50-8	>= 70 - < 90
Zinc	7440-66-6	>= 10 - < 20
Silica	7631-86-9	>= 1 - < 5

#### **SECTION 4. FIRST AID MEASURES**

Take the victim into fresh air. General advice

Do not leave the victim unattended.

Move out of dangerous area.

Show this material safety data sheet to the doctor in

attendance.

If inhaled If unconscious, place in recovery position and seek medical

If symptoms persist, call a physician.

In case of skin contact Wash off immediately with soap and plenty of water.

Flush eyes with water as a precaution. In case of eye contact

Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and

delayed

: Harmful if swallowed.



## **VISIONAIRE Bright Sunflower Gold**

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 03/21/2018

 3.0
 12/06/2019
 102000029175
 Date of first issue: 02/22/2018

#### **SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : Special powder against metal fire

Dry sand ABC powder

Unsuitable extinguishing

media

Specific hazards during fire

fighting

High volume water jet

Do not allow run-off from fire fighting to enter drains or water

courses.

Water

Further information : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Standard procedure for chemical fires.

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for fire-fighters

Wear self-contained breathing apparatus for firefighting if

necessary.

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures Use personal protective equipment.

Evacuate personnel to safe areas.

Avoid dust formation. Avoid breathing dust.

Environmental precautions :

Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up

Use mechanical handling equipment.

Pick up and transfer to properly labeled containers.

Keep in suitable, closed containers for disposal.

#### SECTION 7. HANDLING AND STORAGE

Advice on protection against : Normal measures for preventive fire protection.



## VISIONAIRE Bright Sunflower Gold

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 03/21/2018

 3.0
 12/06/2019
 102000029175
 Date of first issue: 02/22/2018

fire and explosion

Normal measures for preventive fire protection.

Advice on safe handling : Avoid creating dust.

Routine housekeeping should be instituted to ensure that

dusts do not accumulate on surfaces. Avoid formation of respirable particles.

Do not breathe vapors/dust.

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Dispose of rinse water in accordance with local and national

regulations.

Conditions for safe storage : Electrical installations / working materials must comply with

the technological safety standards.

Keep away from sources of ignition - No smoking.

Do not store near combustible materials.

Keep containers tightly closed in a cool, well-ventilated place. To maintain product quality, do not store in heat or direct

sunlight.

Keep container tightly closed in a dry and well-ventilated

place.

Electrical installations / working materials must comply with

the technological safety standards.

Protect from humidity and water.

Technical

measures/Precautions

Materials to avoid

: Keep away from oxidizing agents, strongly alkaline and

strongly acid materials in order to avoid exothermic reactions. Do not store together with oxidizing and self-igniting products.

Further information on

storage stability

Keep in a dry place.

### **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

## Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Copper	7440-50-8	TWA	1 mg/m3 (Copper)	ACGIH
		TWA (dust	1 mg/m3	NIOSH REL
		and mists)	(Copper)	
		TWA	1 mg/m3	OSHA P0



# VISIONAIRE Bright Sunflower Gold

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 03/21/2018

 3.0
 12/06/2019
 102000029175
 Date of first issue: 02/22/2018

			(Copper)	I
		TWA	0.2 mg/m3	ACGIH
			(Copper)	
		TWA	0.1 mg/m3	OSHA P0
			(Copper)	
		TWA (Dust	1 mg/m3	ACGIH
		and mist)	(Copper)	
		TWA	0.2 mg/m3	ACGIH
		(Fumes)	(Copper)	
		TWA (Dust)	1 mg/m3	NIOSH REL
			(Copper)	
		TWA (Mist)	1 mg/m3	NIOSH REL
		, ,	(Copper)	
		TWA (dusts	1 mg/m3	OSHA Z-1
		and mists)	(Copper)	
		TWA	0.1 mg/m3	OSHA Z-1
		(Fumes)	(Copper)	
		TWA	0.1 mg/m3	OSHA P0
		(Fumes)	(Copper)	
		TWA (Dust	1 mg/m3	OSHA P0
		and mist)	(Copper)	
Zinc	7440-66-6	TWA (total	50 Million	OSHA Z-3
		dust)	particles per cubic	
			foot	
		TWA (total	15 mg/m3	OSHA Z-3
		dust)		
		TWA	5 mg/m3	OSHA Z-3
		(respirable		
		fraction)		
		TWA	15 Million	OSHA Z-3
		(respirable	particles per cubic	
		fraction)	foot	
Silica	7631-86-9	TWA (Dust)	20 Million	OSHA Z-3
			particles per cubic	
			foot	
		TAVA (D. 0)	(Silica)	00114 7.0
		TWA (Dust)	80 mg/m3	OSHA Z-3
			/ %SiO2	
		TDA/A	(Silica)	NIOCH DEL
		TWA	6 mg/m3	NIOSH REL
			(Silica)	

## Personal protective equipment

Respiratory protection : Use suitable breathing protection if workplace concentration

requires.

Respirator with a dust filter



## VISIONAIRE Bright Sunflower Gold

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 03/21/2018

 3.0
 12/06/2019
 102000029175
 Date of first issue: 02/22/2018

P1 filter

Hand protection

Material : Leather

Remarks : Leather gloves The choice of an appropriate glove does not

only depend on its material but also on other quality features and is different from one producer to the other. The exact break through time can be obtained from the protective glove

producer and this has to be observed. Recommended

preventive skin protection

The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Safety glasses

Skin and body protection : Long sleeved clothing

Safety shoes

Dust impervious protective suit

Choose body protection according to the amount and

concentration of the dangerous substance at the work place.

Hygiene measures : General industrial hygiene practice.

Do not smoke.

Wash hands before breaks and at the end of workday.

Keep away from food and drink. Keep away from tobacco products. When using do not eat or drink. When using do not smoke.

Wash hands before breaks and at the end of workday.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : powder Color : gold Odor : odorless

Odor Threshold : No data available pH : No data available Melting point/freezing point : No data available Initial boiling point and boiling : No data available

range

Flash point : No data available
Evaporation rate : No data available
Flammability (solid, gas) : Combustible Solids

combustible dust



## VISIONAIRE Bright Sunflower Gold

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 03/21/2018

 3.0
 12/06/2019
 102000029175
 Date of first issue: 02/22/2018

No data available

No data available

Upper explosion limit / Upper

flammability limit

Lower explosion limit / Lower

flammability limit

Vapor pressure : No data available
Relative density : No data available
Solubility(ies) : No data available
Partition coefficient: n- : No data available

octanol/water

Autoignition temperature : No data available
Decomposition temperature : No data available
Viscosity : No data available

#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No decomposition if stored and applied as directed.

No decomposition if stored and applied as directed.

Chemical stability : No decomposition if stored and applied as directed. Possibility of hazardous : Stable under recommended storage conditions.

reactions No hazards to be specially mentioned.

No decomposition if stored and applied as directed.

Dust may form explosive mixture in air.

Conditions to avoid : No data available

No data available

### **SECTION 11. TOXICOLOGICAL INFORMATION**

#### Acute toxicity

Harmful if swallowed.

## **Components:**

Copper:

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after

single ingestion.

Zinc:

Acute oral toxicity : (Rat): > 2,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 5.41 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Silica:

Acute oral toxicity : LD50 (Rat): 5,000 mg/kg



## VISIONAIRE Bright Sunflower Gold

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 03/21/2018

 3.0
 12/06/2019
 102000029175
 Date of first issue: 02/22/2018

(Mouse): 15,000 mg/kg

Acute inhalation toxicity : (Rat): 0.139 mg/l

Exposure time: 4 h

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

Skin corrosion/irritation

Not classified based on available information.

**Components:** 

Copper:

Remarks: May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation

Not classified based on available information.

**Components:** 

Copper:

Result: Eye irritation

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

IARC No ingredient of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA No component of this product present at levels greater than or

equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen



## VISIONAIRE Bright Sunflower Gold

Version 3.0

Revision Date: 12/06/2019

SDS Number: 102000029175

Date of last issue: 03/21/2018 Date of first issue: 02/22/2018

by NTP.

## Reproductive toxicity

Not classified based on available information.

## STOT-single exposure

Not classified based on available information.

## STOT-repeated exposure

Not classified based on available information.

#### **Aspiration toxicity**

Not classified based on available information.

#### **Further information**

#### **Components:**

Copper:

Remarks: No data available

Zinc:

Remarks: No data available

Silica:

Remarks: No data available

## **SECTION 12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

## **Components:**

### Copper:

M-Factor (Acute aquatic

: 10

toxicity)

## **Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

Zinc:

**Ecotoxicology Assessment** 

Acute aquatic toxicity : Very toxic to aquatic life.



## VISIONAIRE Bright Sunflower Gold

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 03/21/2018

 3.0
 12/06/2019
 102000029175
 Date of first issue: 02/22/2018

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

Silica:

Toxicity to daphnia and other :

aquatic invertebrates

(Daphnia): 7,600 mg/l

Toxicity to algae : (Chlorella pyrenoidosa): 440 mg/l

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Other adverse effects

No data available

**Components:** 

Copper:

Additional ecological

information

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

Zinc:

Additional ecological

information

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

Silica:

Additional ecological

information

No data available

**SECTION 13. DISPOSAL CONSIDERATIONS** 

Disposal methods

Waste from residues : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company. In accordance with local and national regulations.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product.



## VISIONAIRE Bright Sunflower Gold

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 03/21/2018

 3.0
 12/06/2019
 102000029175
 Date of first issue: 02/22/2018

Do not re-use empty containers.

In accordance with local and national regulations.

#### **SECTION 14. TRANSPORT INFORMATION**

### **Domestic regulation**

#### **49 CFR**

Not regulated as a dangerous good

## International Regulations

**IATA-DGR** 

UN/ID No. : UN 3077

Proper shipping name : Environmentally hazardous substance, solid, n.o.s.

(Copper metal powder)

Class : 9
Packing group : III

Labels : Class 9 - Miscellaneous dangerous substances and articles

Packing instruction (cargo

aircraft)

Packing instruction : 956

(passenger aircraft)

**IMDG-Code** 

UN number : UN 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

956

(Copper metal powder)

Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F
Marine pollutant : yes

Remarks : IMDG Code segregation group 7 - Heavy metals and their

salts

Remarks : For single packagings <=5L / 5 kg, or combination

packagings containing inner packagings <= 5L / 5 kg net per inner packaging, SV375 ADR, 2.10.2.7 IMDG-Code, A197

IATA-DGR may be applied.

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

Not applicable for product as supplied.

### **SECTION 15. REGULATORY INFORMATION**

### **EPCRA - Emergency Planning and Community Right-to-Know**

**CERCLA Reportable Quantity** 



## VISIONAIRE Bright Sunflower Gold

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 03/21/2018

 3.0
 12/06/2019
 102000029175
 Date of first issue: 02/22/2018

Components	CAS-No.	Component RQ
		(lbs)
Copper	7440-50-8	5000

### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

## SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 313 : The following components are subject to reporting levels

established by SARA Title III, Section 313:

Copper 7440-50-8 >= 70 - < 90 %

Zinc 7440-66-6 >= 10 - < 20 %

#### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

#### Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307

Copper 7440-50-8 81.965 %

Zinc 7440-66-6 13.8225 %

## **US State Regulations**

#### Massachusetts Right To Know

Copper 7440-50-8

Zinc 7440-66-6



## **VISIONAIRE Bright Sunflower Gold**

Version Revision Date: 3.0 12/06/2019

SDS Number: 102000029175

Date of last issue: 03/21/2018 Date of first issue: 02/22/2018

Silica 7631-86-9

Pennsylvania Right To Know

 Copper
 7440-50-8

 Zinc
 7440-66-6

Silica 7631-86-9

Aluminum 7429-90-5

#### California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.



WARNING: This product can expose you to chemicals including lead and cadmium, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

#### California List of Hazardous Substances

Copper 7440-50-8

Zinc 7440-66-6

Silica 7631-86-9

California Permissible Exposure Limits for Chemical Contaminants

Copper 7440-50-8

Zinc 7440-66-6

Silica 7631-86-9

## The ingredients of this product are reported in the following inventories:

DSL : All components of this product are on the Canadian DSL

TSCA : On TSCA Inventory

#### **TSCA list**

No substances are subject to a Significant New Use Rule.



## VISIONAIRE Bright Sunflower Gold

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 03/21/2018

 3.0
 12/06/2019
 102000029175
 Date of first issue: 02/22/2018

No substances are subject to TSCA 12(b) export notification requirements.

#### **SECTION 16. OTHER INFORMATION**

#### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL : USA. NIOSH Recommended Exposure Limits

OSHA PO : USA. OSHA - TABLE Z-1 Limits for Air Contaminants -

1910.1000

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1

Limits for Air Contaminants

OSHA Z-3 : USA. Occupational Exposure Limits (OSHA) - Table Z-3

Mineral Dusts

ACGIH / TWA : 8-hour, time-weighted average

NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour

workday during a 40-hour workweek

OSHA P0 / TWA : 8-hour time weighted average OSHA Z-1 / TWA : 8-hour time weighted average OSHA Z-3 / TWA : 8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials: bw - Body weight: CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer: IATA - International Air Transport Association: IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association: NO(A)EC - No Observed (Adverse) Effect Concentration: NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development: OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and



## **VISIONAIRE Bright Sunflower Gold**

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 03/21/2018

 3.0
 12/06/2019
 102000029175
 Date of first issue: 02/22/2018

Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 12/06/2019

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**US / Z8**